

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

(51) 。 Int. Cl. ⁷ G02F 1/1335		(11) (43)	10-2004-0007064 2004 01 24
(21)	10-2002-0041709		
(22)	2002 07 16		
(71)		416	
(72)		5	504-101
		2	108-1510
(74)			
	:		
(54)	-		

가

1	-		
2	-	1	
3	-	11	
4	-	6	

5	1	-	.
6	1		.
7	1		.
8	1		.
9	1		.
10			.
10a	2		.
11	3		.
11a	4		.
12	5		.
12a	6		.
13	7		.

- , ,

- .

, (Liquid Crystal Display device),

(Cathode Ray Tube type display device) , 가 CRT

. 가 CRT , (Liquid Crystal)

. μm

, , 가 ,

(transmissive type liquid crystal display device) (reflective type liquid crystal display device),
missive type display device) - (reflective-trans

가

(Cold Cathode Fluorescent type Lamp, CCFL)

1 -

1 , - (100) TFT (10), (20) (30)

- (100) (30)

()

TFT (10) (11), (12), (13), (pixel electrode;14)

(orientation film;15)

(12) (11) (12) (12a),

(12b), (12c) (12d)

(13) (12) (11)

(12) (12) (12d) (13a)

(14) (13) (14) (14a) (14b)

(14a) 가 (Indium Tin Oxide, ITO) (

Indium Zinc Oxide, IZO)

(14a) (13) (13a) (12) (12d)

(14a) (11) 1 가 가 (14a)

1

(14b) (14a) (14b) 가 가

(14b) 1 2 가 가

(14b) 가 (11) 가 (14c)

(14b) (14a)

(14c) 1 가 가 1

(15) (14) (11)

(15) (30) (15) (15)

(orientation groove)

(rubbing) (15) (15)
 (pile) (rubbing cloth)

(15) TFT (10) (20)

(20) (21), (22) (23) (22) (21)
) , TFT (10) (14)

(23) (21) (22)가

(30) (20) TFT (10)

, - (100) (afte
 rimage)

(14) (15)

2 - 1 3
 - 11 4 -
 6

2 , (15a) , 1 , (14)
 (14b) 가 (14c)

2 A A (15a)

3 , (15a) , 11 , (14)
 (14b) , (14c)

3 B B (15a)

, 4 , (15a) , 6 , (14) (14b)
 , (14c)

4 C C (15a)

, 2 4 , A, B, C (14b) (14c)
 , 가

가 , (14a) (14b) (14) (14)
 (14a) (14b)

, (14a) (14b) 1 (30)
 (30) 가

, 2

.

1 () 1 , ()

, ()

1 가 , ()

1 2

1 2 , 2

1 2 ,

1 2

2

, 2

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, 1 2

1 2

1 1 2

1 1 2 ,

2 1 2 -

.

, 가 .

, .

1

5 1 - .

5 , - (500) TFT (200), (300)

(400) .

TFT (200) 1 (210), (220), (230), (pixel electrode; 240) (orientation film;250) .

6 .

1), (220) 1 (210) (220) (22

(222), (225), (227), (229) .

(220) , 1 (210) (222) .

(222) , 1 (210) ,

- .

(222) , (222) (222)

()

(222) (221) , (221) (222)

(225)

(225) (221) n+ -

223 , 224 n+ .

1 (210) / (224) (22

7) (229) n+ .

(227) ,

7 .

7 (230) (220) 1 (210)

(232) (230) (220) (229)

8 .

8 (240) (230) (240) (242)

(244)

(242) 가 (Indium Tin Oxide, ITO) (

Indium Zinc Oxide, IZO) - 1 .

(242) (230) (232) (220) (229)

(242) (210) 1 (242)

, 1 가 가 .

8 (244) (242) (244)

(244) 1 2 .

9 .

9 (250) (230) (240) 1 (210)

(250) (250) (250) (orientation groove;252)

, (250) (242) (244) (244)

(250) (250) (242) (244) (9)

(242) (244) (250) (rubbi

ng) (252)

(252) 9 (pile;254) (rubbing cloth;255)

(257) (254) (250)

10 .

10 (244) (242) 1 (242) 2

, 1 2 (244) (242) (244) (244a)가

, (244a) 10 (244) 가 (242) (244) 2 1 (10
) (244) (240) (252) (242) (244) (252) (244a)
 (254) .
 , . 가
 , .
 10 (244) (242) (255) (pile;254)
 (244a) (244) , (242) (244) (242)
 , (244) (242)
 10 6 , (244) (242) 12 3 (244a)
 3 , 9 (244) 9 3 가 .
 , 6 12 , 9 3 , (242) (244)
 (244a)가 (244a)
 2
 1 2
 1 1
 10a 2
 10a , 1 2 (244a) (244)
 (244b) 가 .
 3
 1 1 3
 11 3
 11 , (244) (242) (242) 1 2
 (250) (230) (240) (210)
 (250) (240) (250) (orientation groove;252)
 , (250) (250) (242) (244) (244) (244c) (250)

ng) (242) (244) (252) (250) (rubbi
 , (252) (252) (250)
 , 가
 , (pile) 11
 (244) (244) 가 (242)
 , (244) 가 , (244) 11 1 () 2
 , 2 (242) 2 (242a, 242b) (244c) (244c)
 2 (242a, 242b)
 (244c) L (242) 2 (242,242b)
)가
 , (244) 1 L
 L (244) (242)
 , (244) (242) (244c)
 11 , (244) (242) (244c)
 2 , 6 3 , 6 12 9 3
 , 12 6 , 3 9 (242) (244)
 (244c)
 4
 1 1 4
 11a
 11a , 1 2 (244c) (244)
 (244b) (244) (244b)
 5
 1 1 5
 12
 12 , (244) (242) (242) 1 2

, (244) 11 1 , (242)
(244) 가 11 2 .

, 2 (242) 1 .

1 U , (244) U .

, 1 2 244d .

(250) (230) (240) (240)

. (250) (240) (250) (orientation groove;252) .

, (250) (250) (242) (244) (244d) (250)
. (250) (242) (244) (244d) (250)

ng) (242) (244) (252) (250) (rubbi
(252) (pile) (rubbing cloth)

, (252) (252) (250)

, , 가

, , (pile) 12

(244) 1 , (244) 가
(242) 2 .

44) (244) (242) (244d) , (242) , (2
(244) (242) (244d)

12 , (244) (242) (244d)
6 12 .

, 3 9 9 3 12 6 ,
(242) (244) (244d)가 (244d)

. 6

1 1 6

12a .

12a , 1 2 (244d) (244) (244) (244b)
가 , (244d) (244d)

7

7

1

1

13

13

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(244)

2

1

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(244)

13

,

(242)

2

1

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2

(242)

..

1

2

,

1

2

(244k)

(244)

(244)

(242)

(242)
(244k)

(244k)

(244)

가

, 13

(244k)

(250)

(252)
(244k)

가

(242)

(244)

200) 5

,

(400)

(252)

TFT (

(400)
(410)

2

(410),
TFT(420)
(200)(430)
(240)(420)
.

(430)

2

(410)

(420)가

(300)

(400)

TFT

(200)

-

가

(57)

1.

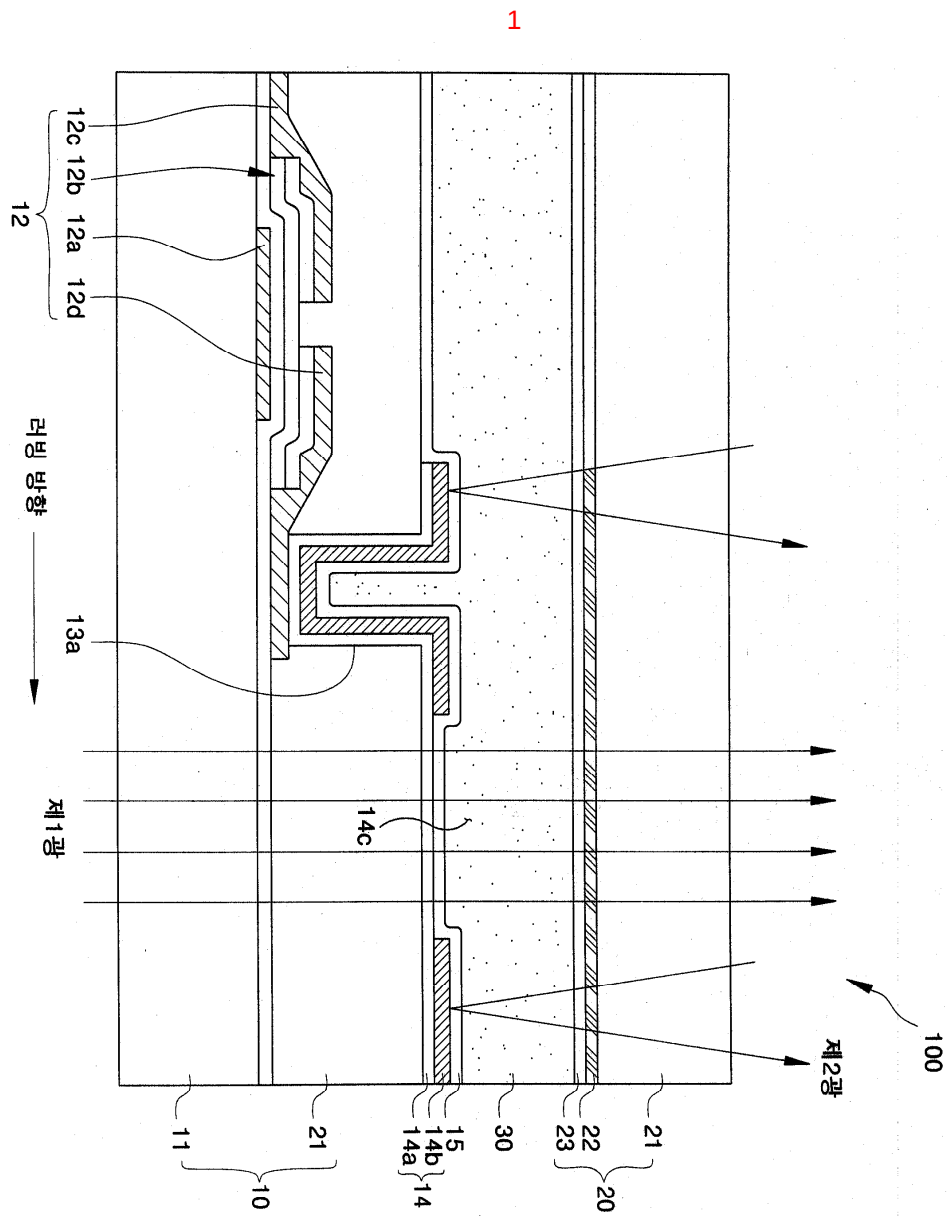
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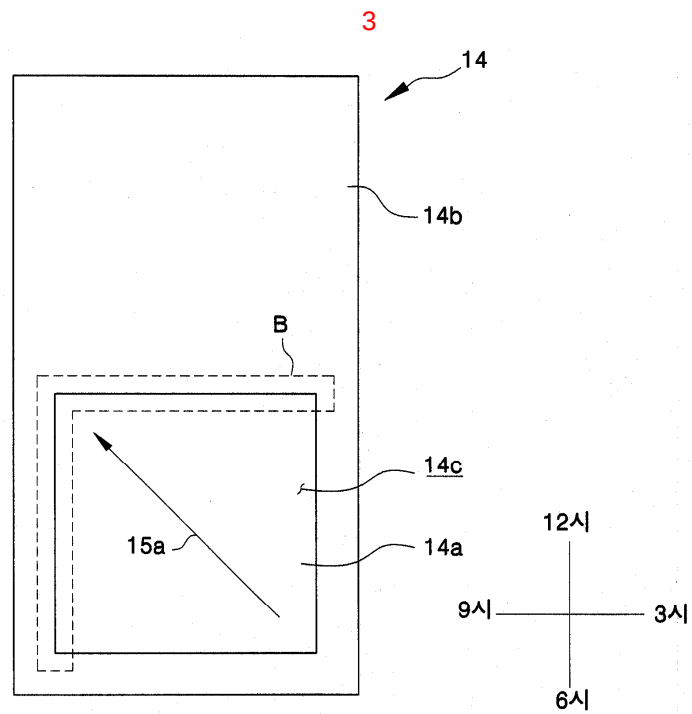
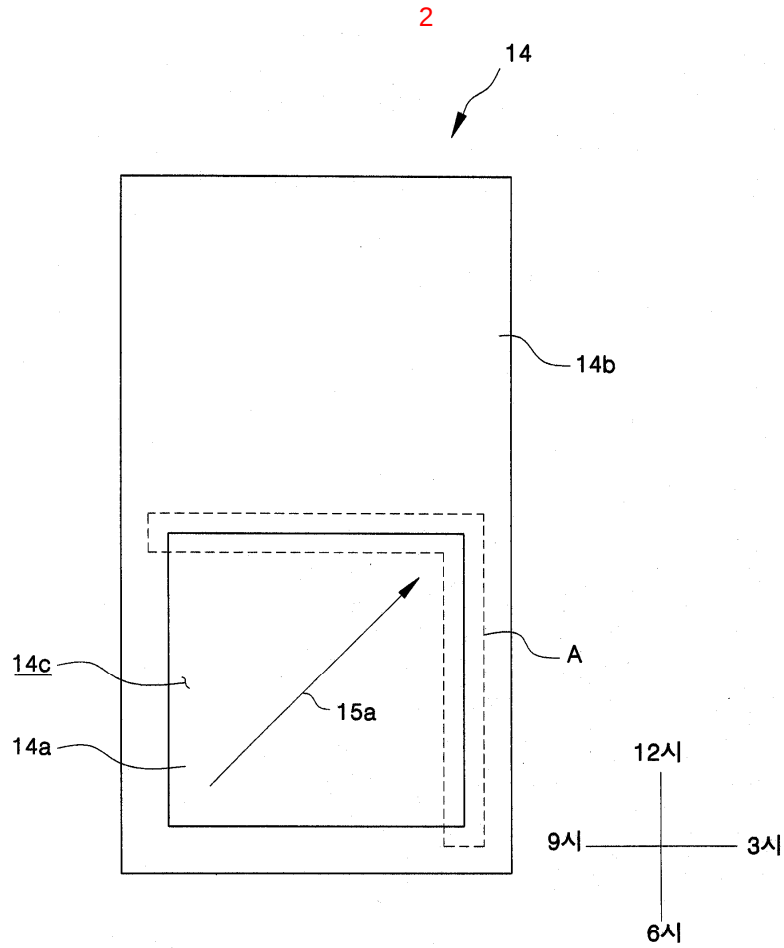
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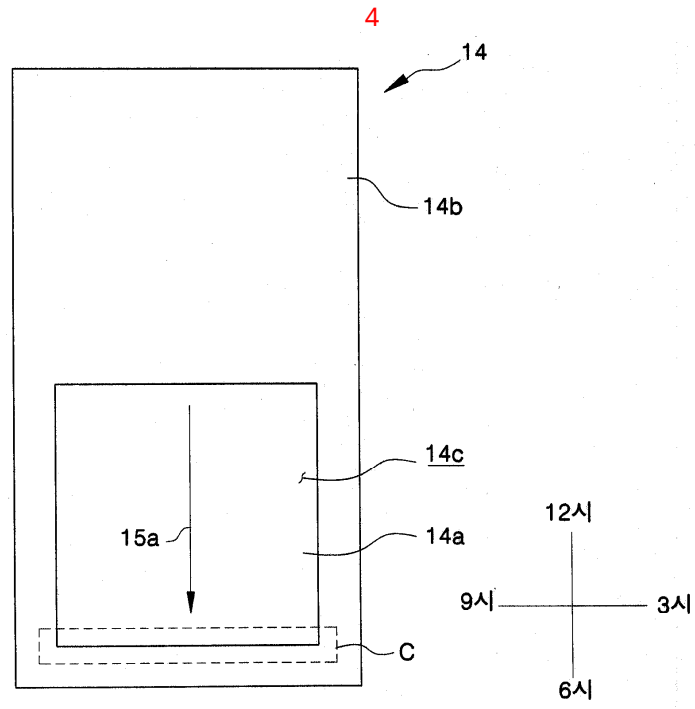
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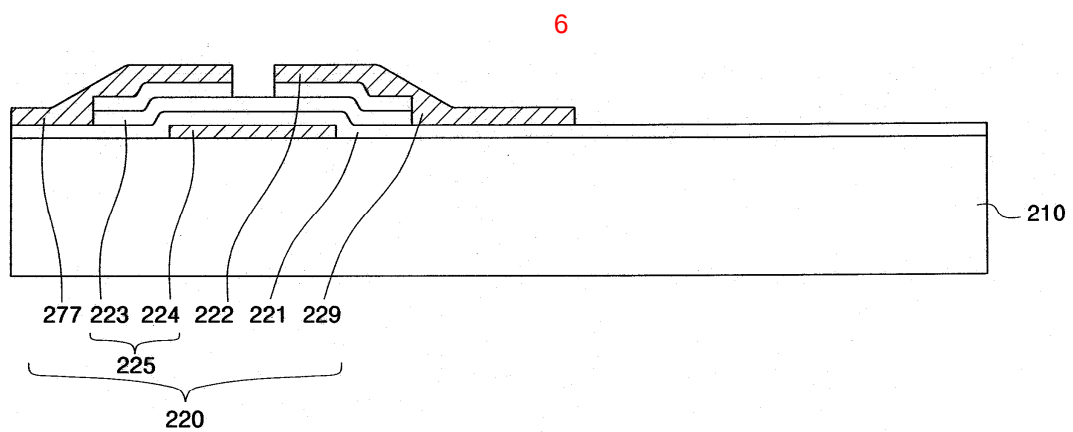
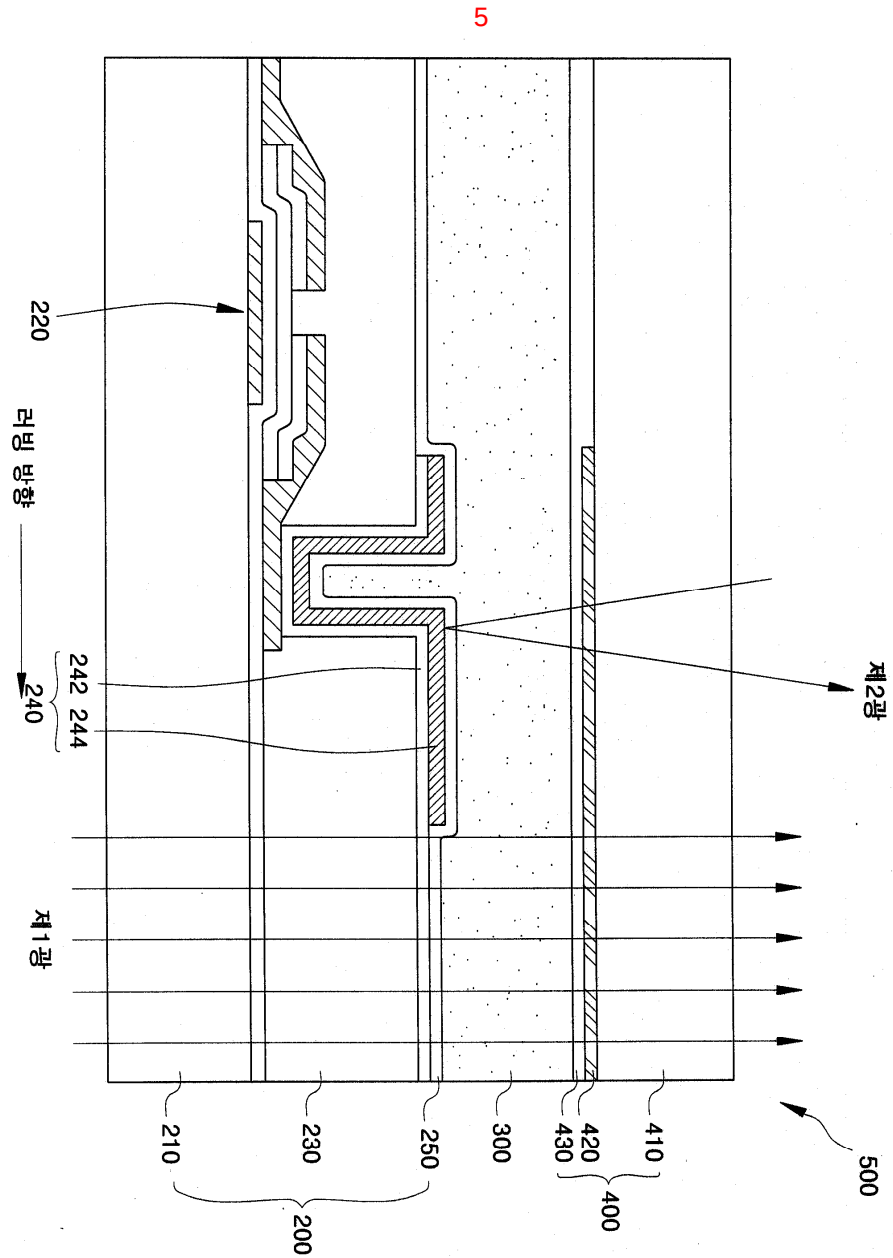
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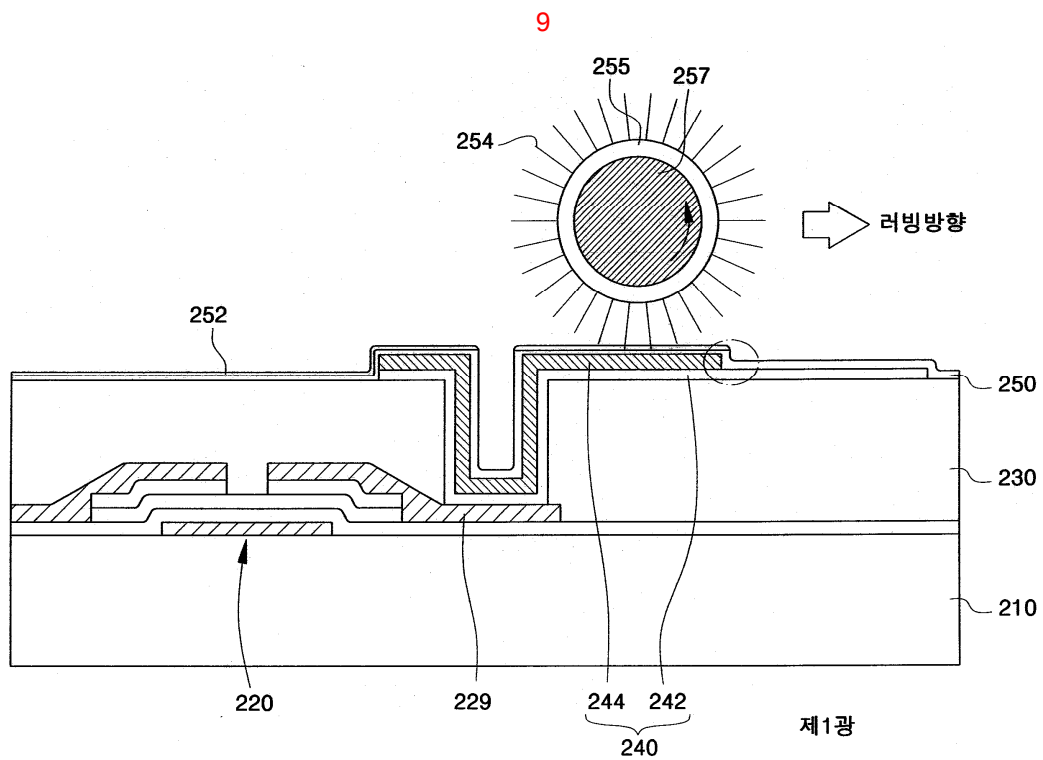
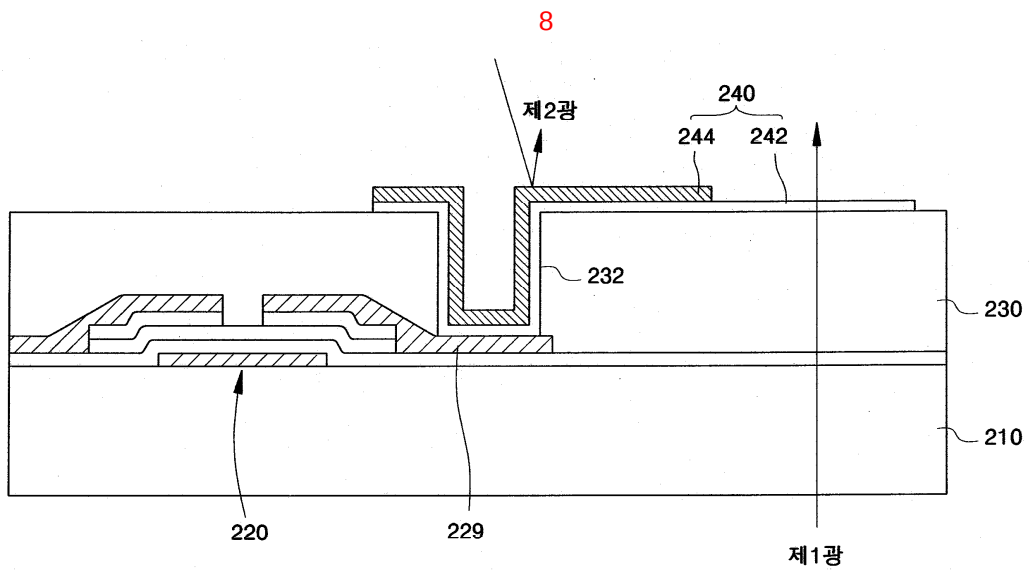
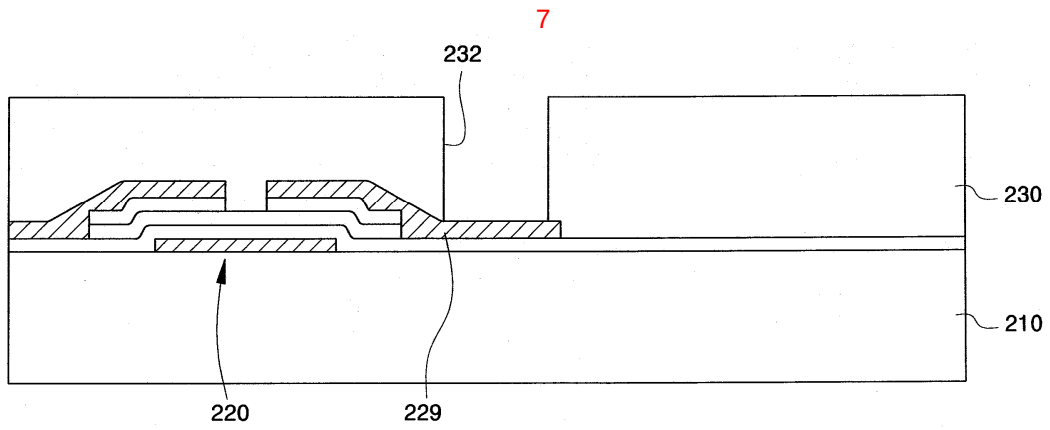
1	2	-	
12.			
11	,	1	
;			
2	가	-	1
13.			
12	,	-	
14.			
11	,	1	
;			
	2		2
			-
15.			
14	,	-	
16.			
11	,	1	
;			
	1		2
		-	
17.			
16	,	-	
18.			
11	,	1	
;			
			2
1		-	
19.			
18	,	2	1
		-	
20.			
18	,	2	,
		-	

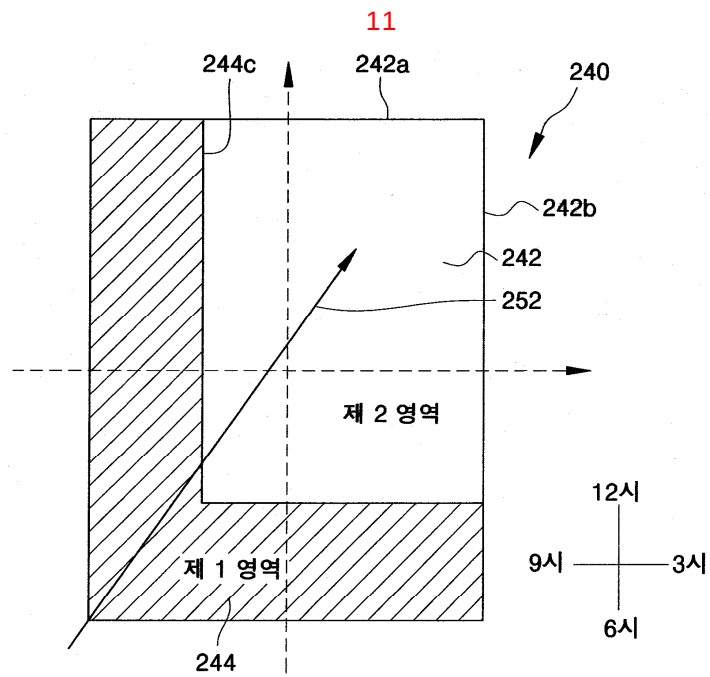
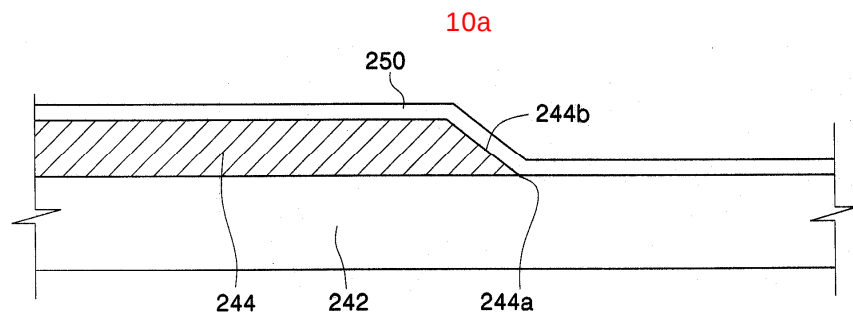
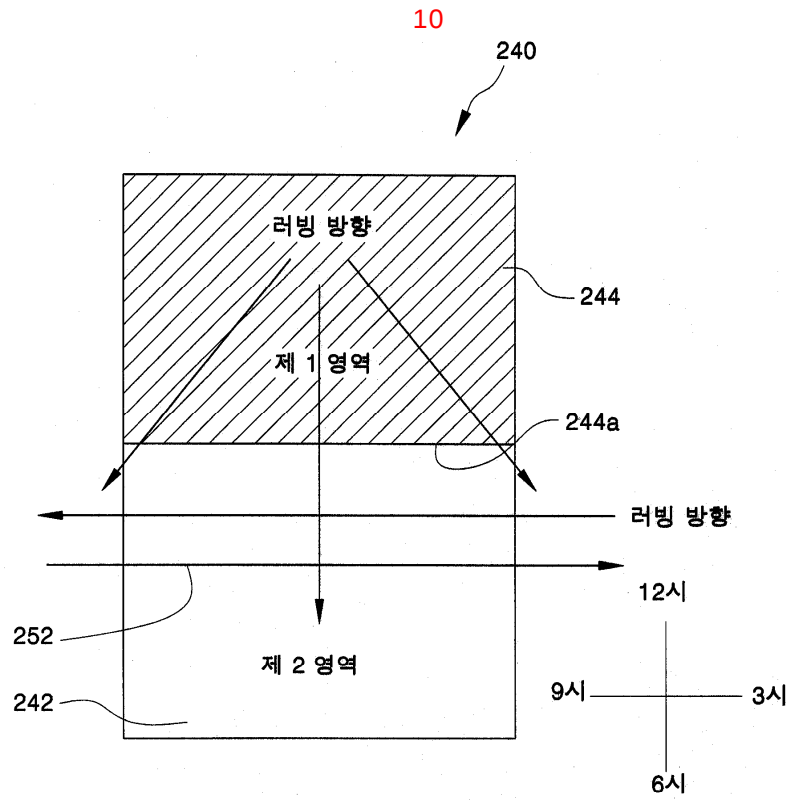


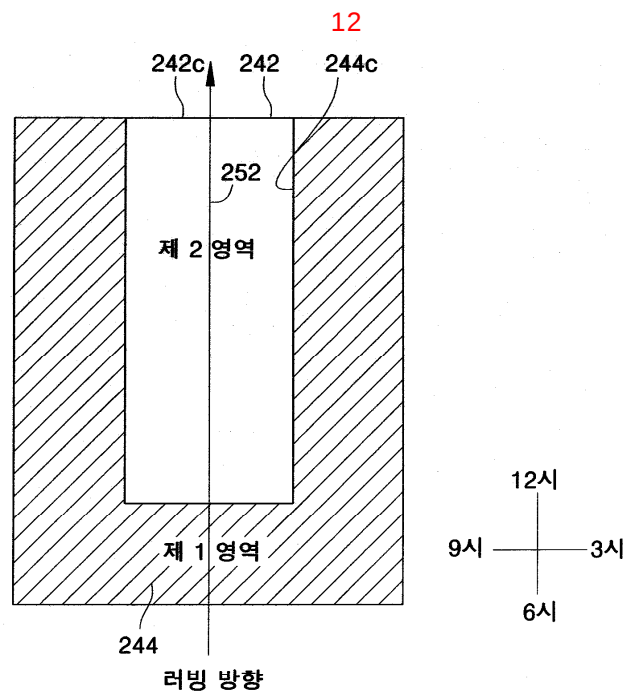
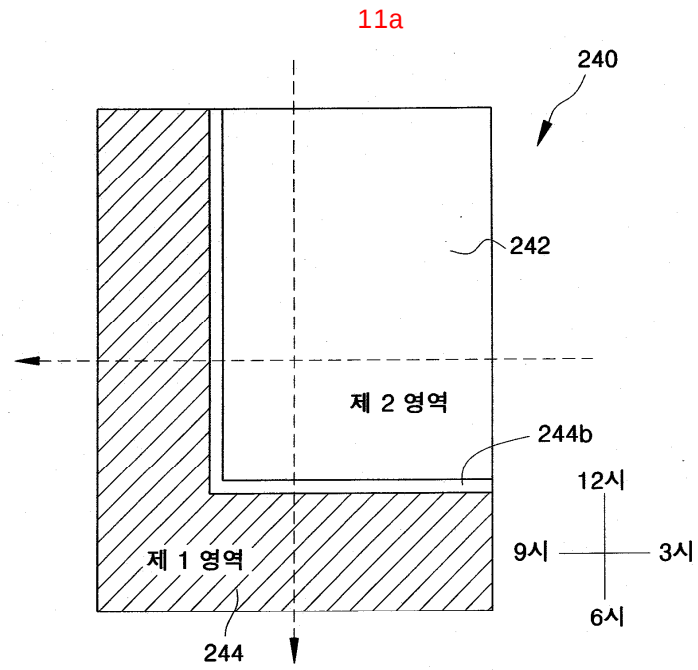


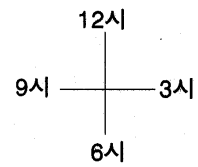
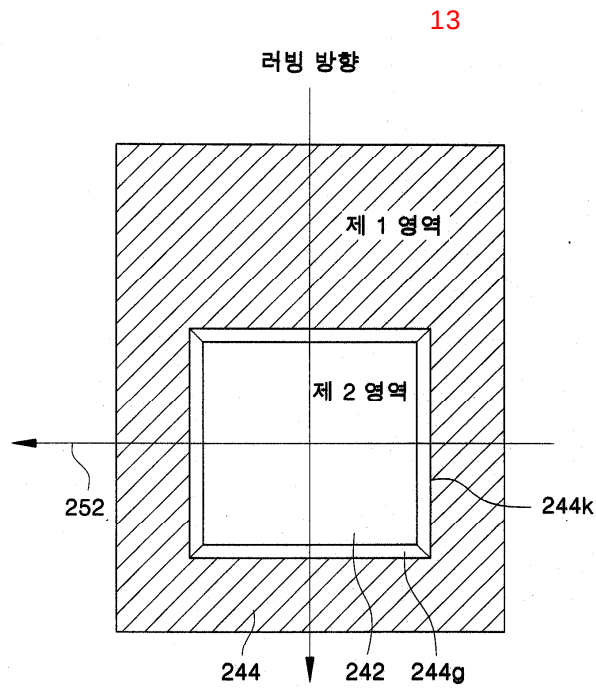
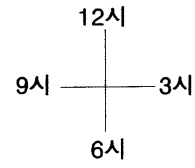
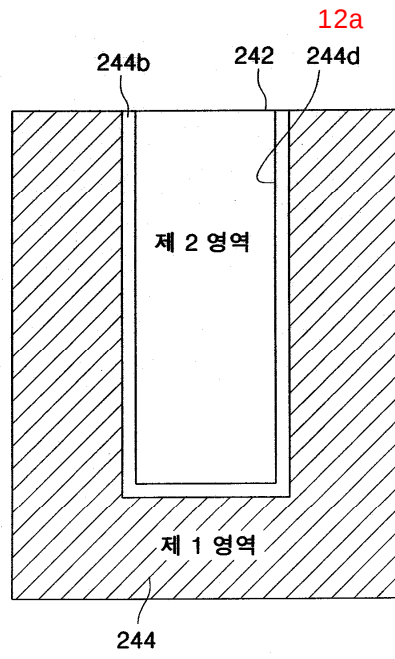












专利名称(译)	反射 - 透射液晶显示装置及其制造方法		
公开(公告)号	KR1020040007064A	公开(公告)日	2004-01-24
申请号	KR1020020041709	申请日	2002-07-16
[标]申请(专利权)人(译)	三星电子株式会社		
申请(专利权)人(译)	三星电子有限公司		
当前申请(专利权)人(译)	三星电子有限公司		
[标]发明人	YOON JOOSUN 윤주선 YANG YONGHO 양용호		
发明人	윤주선 양용호		
IPC分类号	G02F1/1362 G02F1/1368 G02F1/1335 G02F1/1337 G09F9/35 G02F1/1343		
CPC分类号	G02F1/133784 G02F1/136227 G02F1/133555		
代理人(译)	PARK , YOUNG WOO		
外部链接	Espacenet		

摘要(译)

一种反射 - 透射型液晶显示装置及其制造方法。一种像素电极，包括透明电极和反射电极，所述透明电极用于在光线不足或暗处显示光，所述反射电极设置在所述透明电极的顶面上，用于在富光的地方显示，所述对准槽形成在所述像素电极的上表面上形成的所述取向膜中根据反射电极的形状改变方向。这具有最小化由于在反射电极和透明电极之间的边界处由于异物和离子引起的液晶响应速度的延迟而导致的残留图像的显示质量不足的效果。五 指数方面 反射透射式液晶显示器，取向膜，反射电极

