

(19) (KR)  
(12) (B1)

(21) 10-2001-0056658 (65) 10-2002-0022000  
(22) 2001 09 14 (43) 2002 03 23

(30) JP-P-2000-00281406 2000 09 18 (JP)

(72) 1800-575

가 5 21-3

271-32

(74)

1

(54)

, , 2 가 1 2

1

1  
2  
3  
4  
5

◀ ▶

1 :	2 :		
3 :	1	4 :	
5 :	2	(	6, 8 :
7 :	9 :		
10 :	11 :		

가

1      1

2      2

가

1

1)

가      가

(1)      (1)      (1)      (7)      (2)

(1)      (1)

1      1      1      2      2      1      2      3  
 (3)      (3)      (3)      (3)      (3)      (3)      (5)

(7)      (3)      (1)      (4)      (4)  
 1      (Benzothiazole)      (Triphenylamine)      (4)

(4)      x      2      (5)      2      (5)

( ) 2 (5) 1 (5) (7)  
 ( ) 1 (3) 2 (5) 가 (4)  
 1 (4) 1 (3) 2 (5) (4)  
 2 (4) 가 (31) 가 (31) 2 (4)  
 4) 2 (5) (35) (4) (35) 1 (3)  
 , 2 (5) 가 (4) (35) ITO(Indium-Tin-Oxide)  
 , 1 (3) 2 (5) (1) (6) (6)  
 x (1) (9) (9) (2) y  
 1 (9) (3) (9) (9) 1 (3)  
 , (2) (11) (10) (11) (11)  
 (9) (8) (7) (6) 2 (11) (11) (10)  
 (5) (4) 1 (3) (2) (5) (5) 2 (10)  
 , 2 (5) (10) (11) (11) (10) 2  
 3 ~ 7V) , 가 1 ( 2 (5) 가  
 (9) (3) 2 (5) , 1 (3) Al (2) 1 (3) (4)  
 3 , 가 OFF (12a) (12a) (11) 2  
 (11) (1/4 (10) (12a) (12b) (12c) (12b)  
 (12c) (7) (12d) (4) (12d) 1 (3) (12c) (7)  
 (12d) 1 (3) (12e) (12e) (4) (7) (12c),  
 (7) (12d) (10) (12f) (12f), (12f)  
 (12e) (12g) 가 ON (7) (7) (7) (7)  
 ) (13a) (14c) (14c) (14e) (14e) (4) (4)  
 (4) (10) (7) (13f) (11) (4) (4) (13f)  
 , (10) (13f) (暗表示) (13f) (11) (11)  
 , (3) 가

1	(3)	(4)
(2)		
4		1
4		(2)
(30)	1	1
	(31)	(30)
		(9)
(30)	x	
		(30b)
(30)	y	
		(30g)
(30r)		
		(30b)
(3)		
5		4
	(4)	(4g)
		(4b)
x		
	(4g)	
		[Tris(8-quinolinolate) alminium]
	(4b)	
	(8- 4, 4'- (2,2 -4H- [4-(Dicyanomethylene)-2methyl-6(p-dimethyl aminostyryl)-4H-pyran] (2)	(Diphenylvinyl)) (Biphenyl)[4-4'- (4r) (4g) 4-( (30)
		(30)가

가

(57)

1.

2.

3.

가

x

y

1

1

y

x

x

y

2

,

,

4.

3

1

5.

4

2

6.

가

1

, , 2

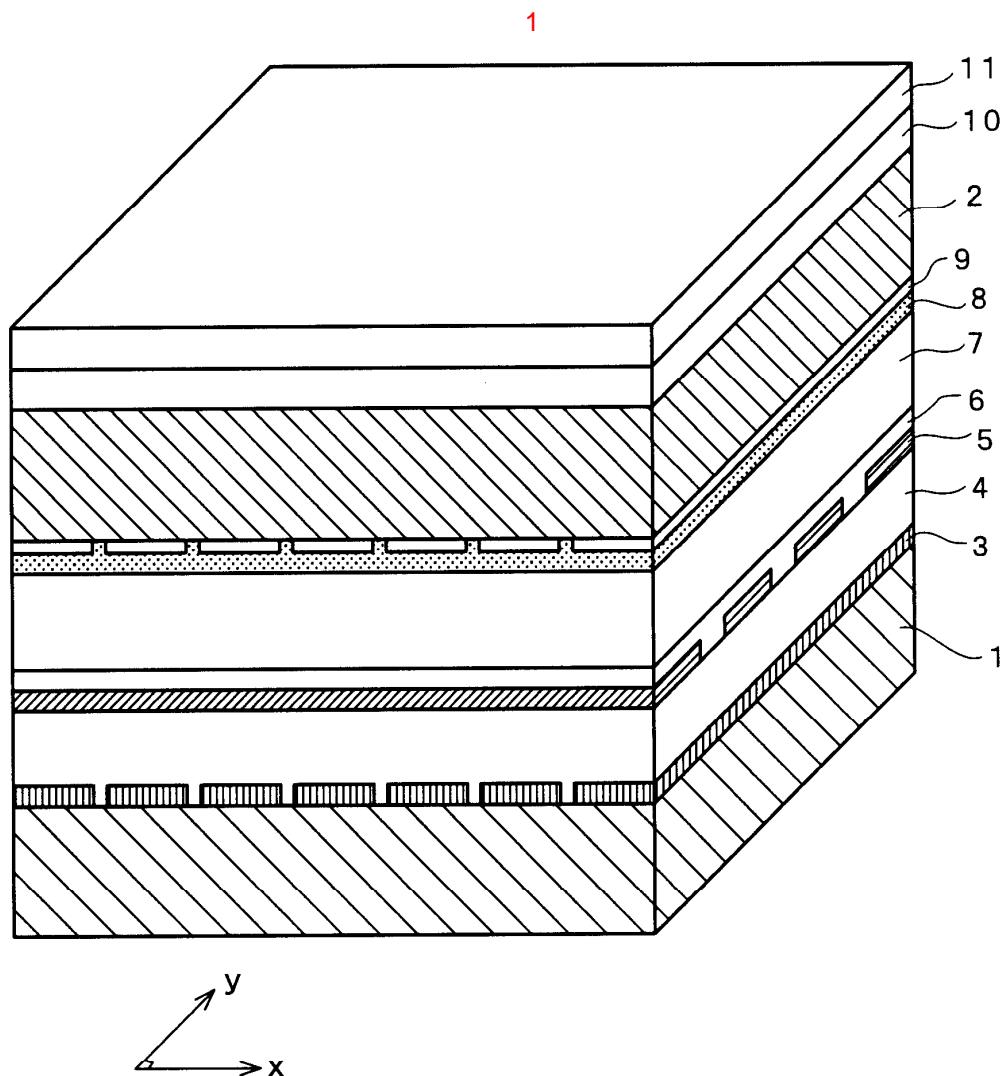
,

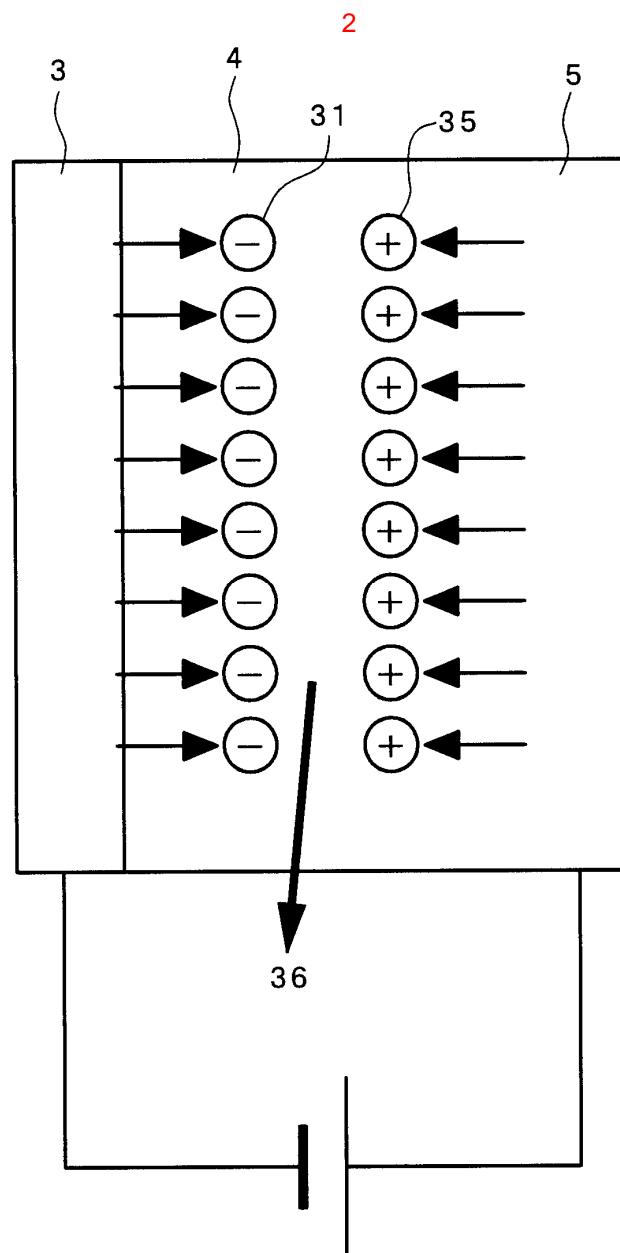
,

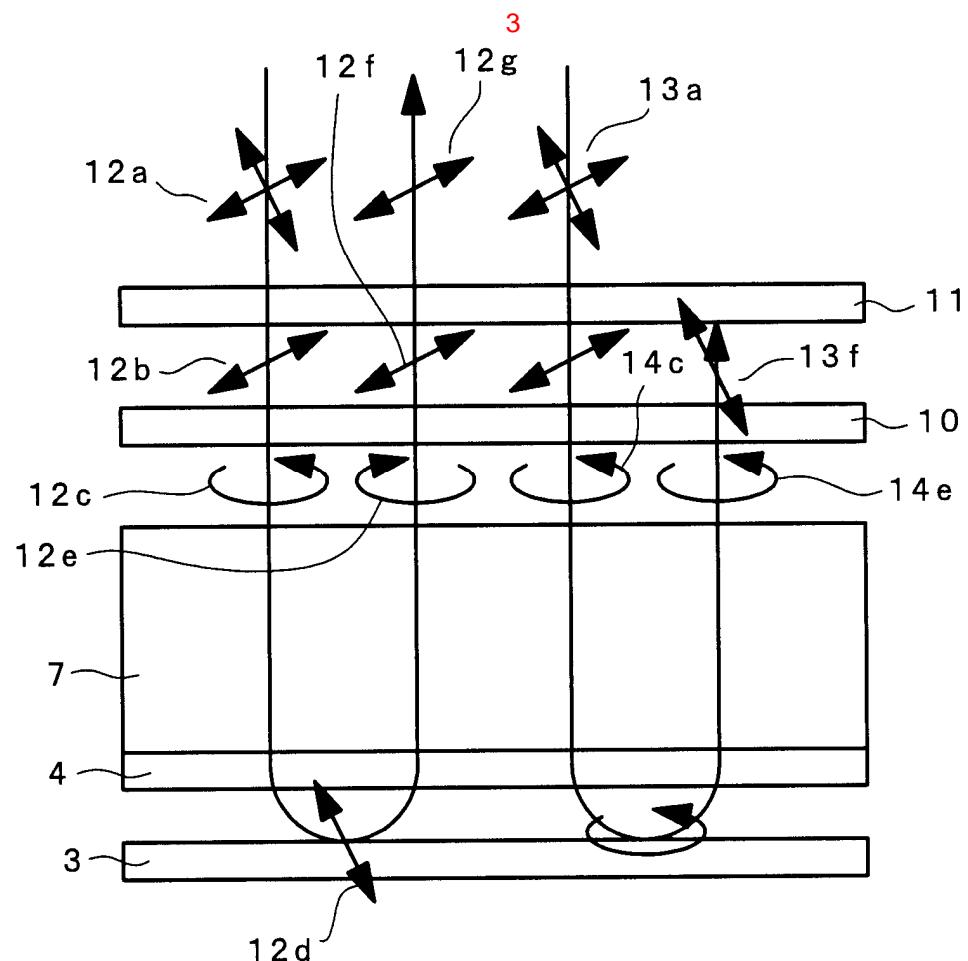
2

7.

8.







전극 OFF의 경우      전극 ON의 경우

