

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

(51) 。 Int. Cl. ⁷ H05B 33/00		(11) (43)	10-2004-0018499 2004 03 03
(21)	10-2004-7000988		
(22)	2004 01 20 2004 01 20		
(86)	PCT/FR2002/002548	(87)	WO 2003/012869
(86)	2002 07 17	(87)	2003 02 13
(30)	01/10289	2001 07 27	(FR)
(71)		46	
(72)	， - ， ， ， ，	-35510, -35760,	25 8
(74)			
	：		
(54)	-		

(13) ， (15)
(6) (14) 가
；
(17) (21) - (13)
(15)

- () (13) ;

- (12) ;

- (15) , (16) ,
(14) .

$$(15) \quad \dots \quad (11) \quad ;$$

$$(12) \quad \begin{array}{ccccccc} & & & & & & ; \\ & & & & & & ; \\ (Y) & & & (serve), & & (X) & ; \\ 가 & , & & & & 가 & ; \\ (Y) & & (X) & , & & . & ; \end{array}$$

$$(X) \quad (Y) \quad \text{가} \quad ; \quad (13) \quad ;$$

, US 4 035 774(IBM), US 4 808 880(CENT) US 6 188 175B1(CDT)

$$\begin{aligned}
(13) \quad & \text{[The [NP] [VP]]} \\
& \text{(13b)} \quad \text{[The [NP] [VP]]} \\
& \text{(13c)} \quad \text{[The [NP] [VP]]}
\end{aligned}$$

(12) - (13a) , (12) ;
 (13) 가 , (ITO) (PDOT:
 polyethylene dioxythiophene) (conducting polymer) .

(13b) (14) - (13c) , ;
(15) , , US 6 188 175 , ,
(5, 60 64).

3b) , - (13a) - (13c) 가 (14) (1)
, - (13c) (13a) 가 (12) .
, (12) () ()
(13) 가 .

(15) (cadmium sulphide) .

(13) , (15) ;
(13) , (15) ;
(13) 가 , (15)
(13) (14) .

- (V_s) , (V_a) 가 ; ,

- (V_a) 가 , V_{off} V_{on} 가 ,

ON') V_T 가 { , - ('OFF') ('

ON') V_D 가 :

- $V_a - V_{on} \geq V_T$ $V_a - V_{off} < V_T$

- $V_s - V_{on} < V_T$ $V_s - V_{off} > V_D$ 가 .

(V_c) , , 가 , ,

(V_{on}) $V_c = V_{off}$, , (V_c) 가

(V_{on}) (V_{off}) 가 $V_c = V_{on}$,

가 .

, , , 가 ,

; , , 가 .

; ,

, $(V_{E-Y} \ V_{E-X})$ 가 ;

, $(V_{E-Y} - V_{E-X} < V_D)$; ,

, $(V_{E-Y} = V_{E-X} = V_{on})$.

, 가 ,

(aperture) ; , ;

, , 가 ; () (

) , , 가 ; () (

, , 가 ;

, , , - ;

, , , ,

, , , ,

, , , ,

8 4 , 가 7

9 3 7 (9-9)

10 4 8 (10-10)

11 5 , 9 가

12 13 ,

14 가

15 16 가

16 가

, 가

가 :

가 ,

;(floating)

, 가

;

, :

- , (V_a) 가 ;

- , 가 ,

, :

가 ,

14 ($E_{n,p}, E_{n+1,p}, E_{n,p+1} \dots$) 가 (Y

(X_p, X_{p+1}) (12) (16)

(6) (32) (31)

, :

- (13) ;

- (15) , (15) ;

- (14) (6) .

16 :

- $(E_{n,p})$, $t > t_1$ ' -n' ;

- $(E_{n+1,p})$, $t > t_2$ ' -n+1' .

(Y_n, Y_{n+1}, X_p) (Y_n, Y_{n+1}) (X_p) 가

16 , $(O_E), (O_W)$ (O_C)) .

16 $(E_{n,p}, E_{n+1,p})$, ON OFF .

16 :

- (V_s) 0 0 가 (V_{on}) , (V_a) ;

- (V_{off}) , (V_{on}) , - (V_{off}) .

16 ON OFF , , 14 :

- OFF $(V_a - V_{on})$ 가 , ON ;

- ON $(V_s - V_{on} \quad V_s - V_{off})$ 가 , ON ;

- OFF $(V_a - V_{off} \quad V_s - V_{on})$ 가 , OFF 가 .

15 : (31) V_D (32) V_Z ,

- (14) (31) (V_D) , ,

- $(V_D + V_Z)$ (, OFF , ON) .

, X_p 가 (V_{off}) , $(V_s - V_{off})$ $(V_a - V_{off})$, $V_D < V_s - V_{off}$ 가 $V_a - V_{off} < V_D + V_Z$ 가

$(V_D + V_Z)$ (V_T) , OFF , O
N
 (Y_n) (O_w) , $(X_1, \dots, X_p)$ (Y_n)
가 (V_s) (X_p) 가 $(V_{on} \quad V_{off})$,
 $V_s - V_{on}$ $V_s - V_{off}$; , (Y_n)
)
 (O_w) (O_c) : 16
 (V_{on}) (V_{off}) (X) 가 ,
 (V_{on}) (V_{off}) 가 ;
가 ,
;
 (Y_n) (O_w) , (O_E) , (O_E)
 $(V_{E-Y} \quad V_{E-X})$,
; 16 , $(V_{E-Y} - V_{E-X} < V_D)$;
, $(V_{E-Y} = V_{E-X} = V_{on})$
,
가 ,
,
가
,
1 3 , (14) , ,
(1) 가 (17) ; (17)
(14) (15) ; (1)
(13) (15) ; , (11)
,
4 (11') ; ,
3
, (17)
(15) (excitation)
;
;
;
가 , ,
6 2 , (14) ; ITO(
(14a) , 10nm 100nm
(14b) ; 1nm
(13c)
5 , 가 6 ;
(12) , (14) 가 ; ITO (1
4a)가 - (13a) ; - (14b)가 (15)
;
, - (14) , ,

(15)

7 9 3 , (14') ,
 가 (14') (front view) ,
 (E_1, E_2) , 9 (9-9) (21)
 5 (2) , 1 ,

9 , 가 (contrast) () (18)
 (8) ; (8) ()

(18) (, 가 ,) -

9 (15) ; (1) 6) (14') (15) , (15)

9 (14') (21) (15) , 가 ,

(E_1, E_2) (6) 가 , (6) (14') (3) (5) , (14')

가 (15) 가 9 (D) (E₁) (E₂)
 (E_1, E_2) ;

(polychromatic) 8 10 4 , (21, 21')
 (E1, E2') ; 가 ;

(15) , (8) 5 , 11 (2) (21) (18') , (9)
 ; (9) (15) ,

12 13 가 ,

(11) , (sputtering) (PVD)
 (X_p, X_{p+1})

;(16)

(16) (CVD) (spin coating) (PECVD) (15)

1 , (17) ,
 :

- , (1) ; (1) ,

- (3, 5).

(ITO) ; ,

가 ; ,

(14) . ;

, (19) 가 , : , (19)

; 13

.

(19) : (

13) .

, (12) (Y_n, Y_{n+1}) :

ITO .

, .

가

(57)

1.

가

(E_1, E_2)

- (13) ;

- (12) ;

- (16) , (13) (15) , - (14)

(6)

(E_1, E_2) (6) ,

2.

1

,

$(E_{n,p})$
 (X_p)

(Y_n) :

- (Y_n) , (V_a) 가

, (V_s) 가

;

- (Y_n) (V_a) 가 , (Y_n)
 $(X_1, \dots, X_p)$ 가 V_{off} V_{on}
 ,

3.

2 , V_T 가 $\{$, - ('OFF')
 ('ON') $\}$, V_D 가 :

$$- V_a - V_{on} \geq V_T \quad V_a - V_{off} < V_T$$

$$- V_s - V_{on} < V_T \quad V_s - V_{off} > V_D$$

4.

2 3 , (Y_n)
 (V_C) , $(X_1, \dots, X_p, \dots)$ 가
 (V_{on}) $V_C = V_{off}$,
 (V_{off}) $V_C = V_{on}$, ($(V_{on} \quad V_{off})$ 가 ,

5.

1 4 , (13) (15)
 , (15) (E_1, E_2)
 (1, 21) (2) ,

6.

5 , (1, 21) (2) (E_1, E_2)
 ,

7.

5 6 , (14) ,

8.

5 7 , (E_1, E'_2)
 $(2, 2')$ $(21, 21')$ /
 (E_1, E'_2) ,

9.

5 8 , (2) (21) ,
 (13) (9) ,

10.

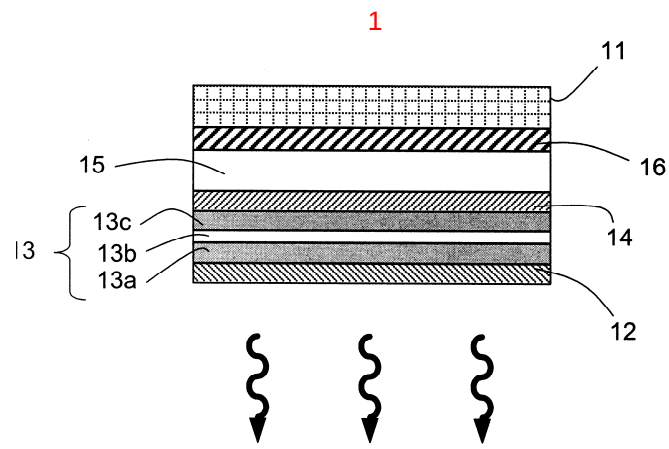
1 4 , - ,
 (13) (15) ,

11.

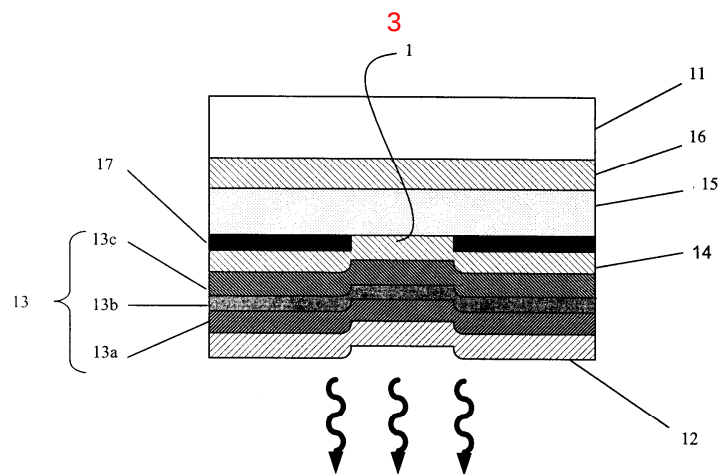
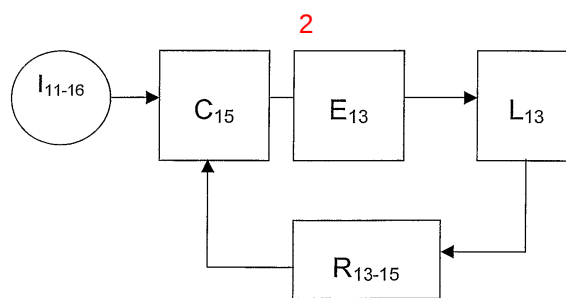
10 , (E_1, E'_2) ,
 (E_1, E'_2) ,

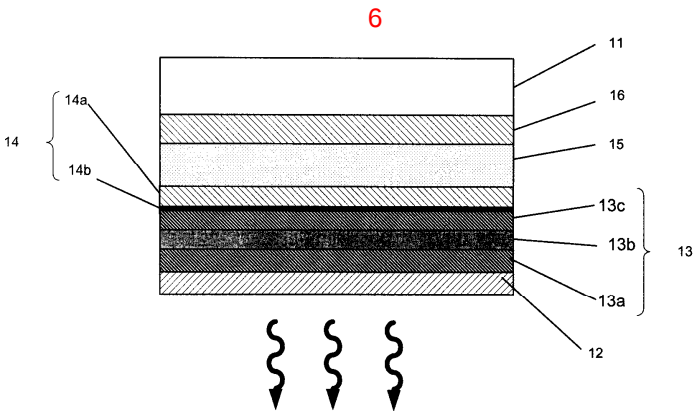
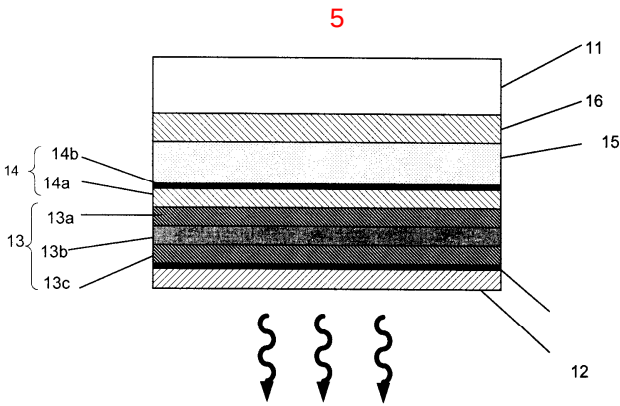
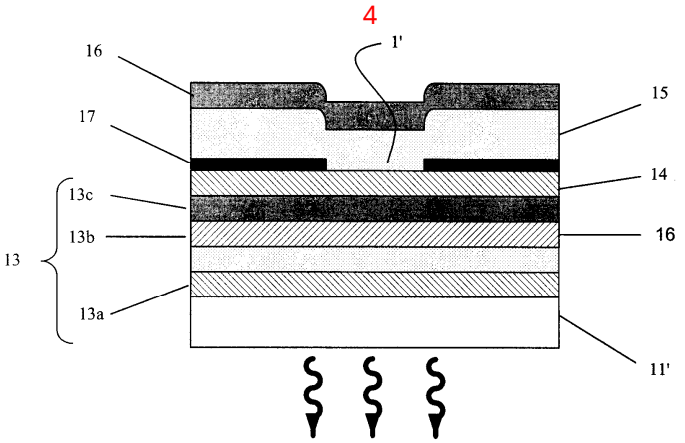
12.

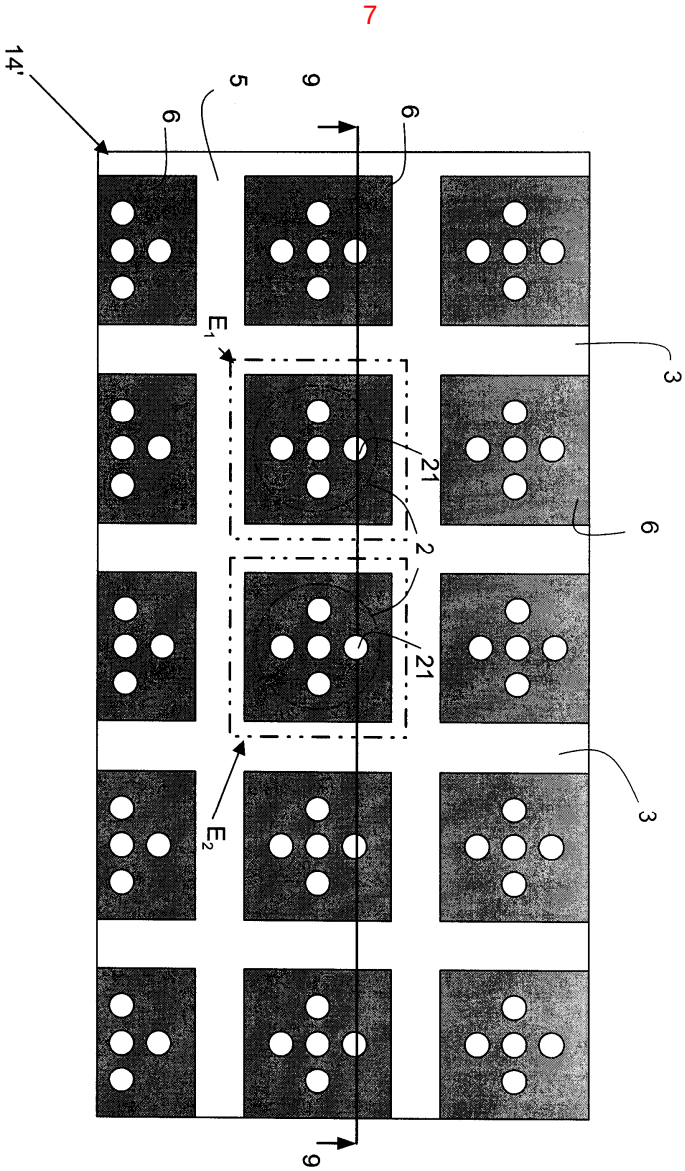
5 11 , ,

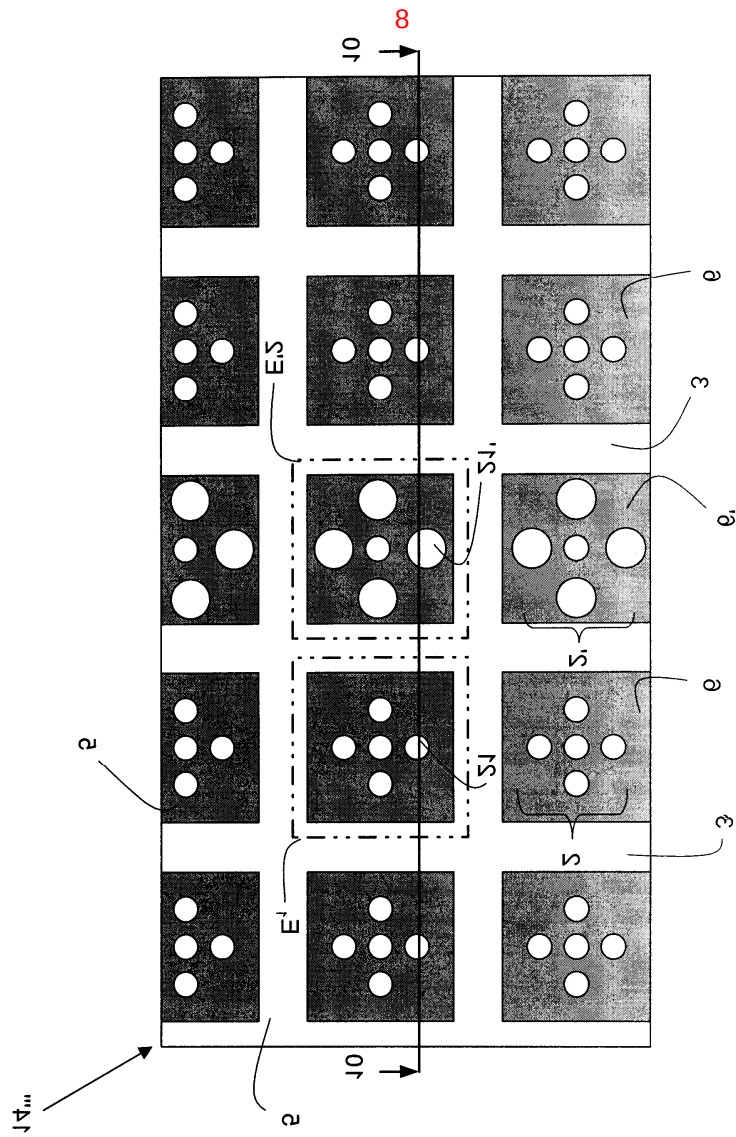


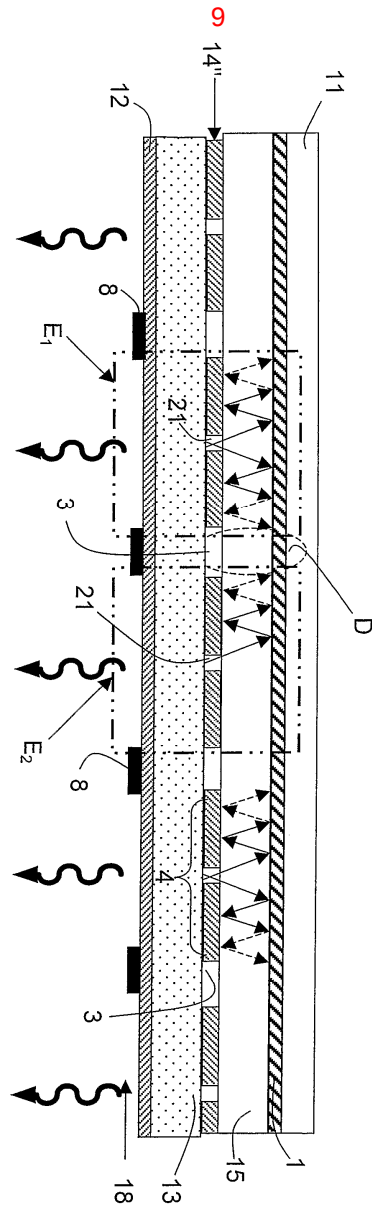
종래기술

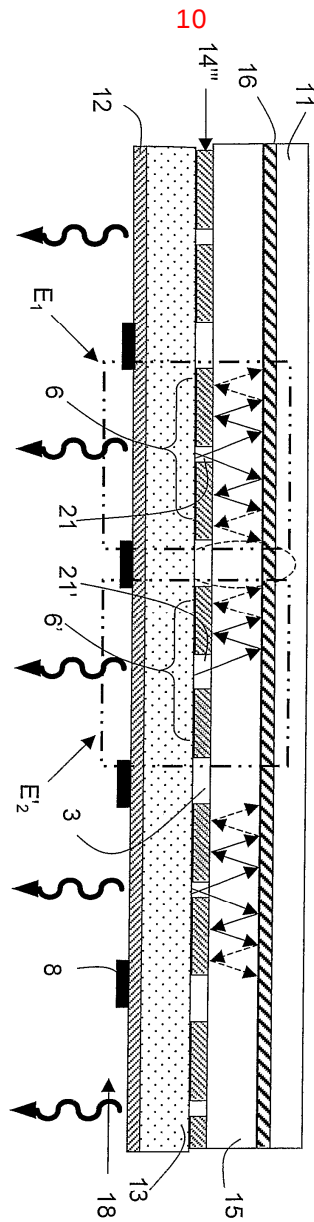


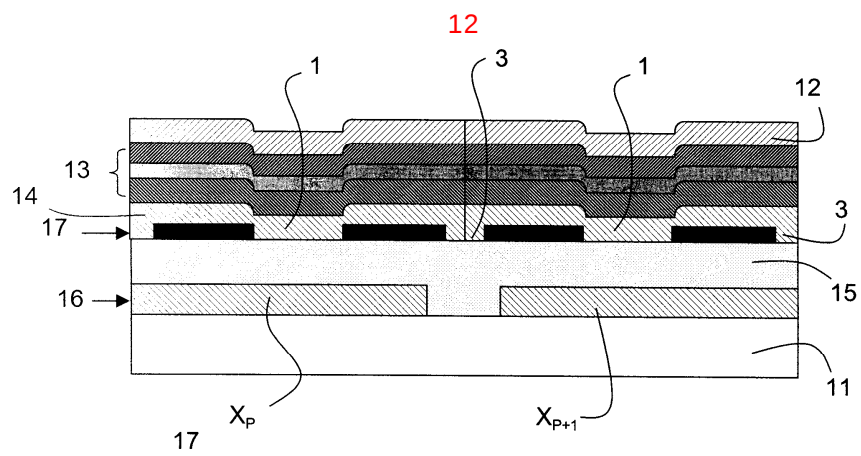
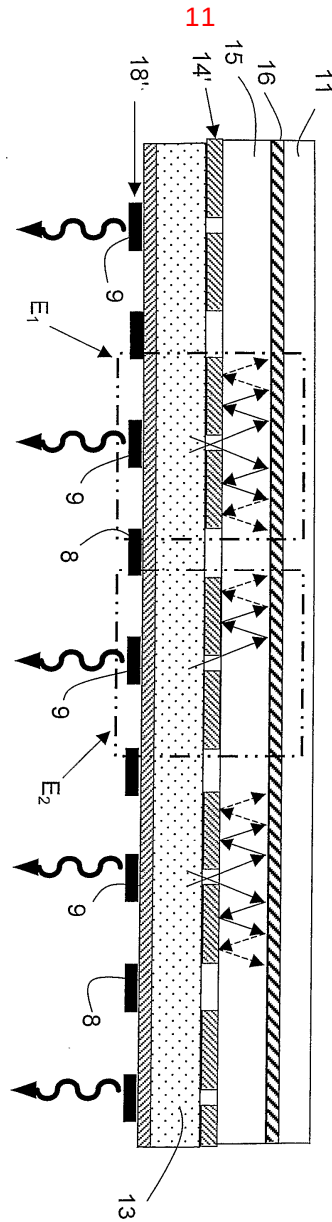


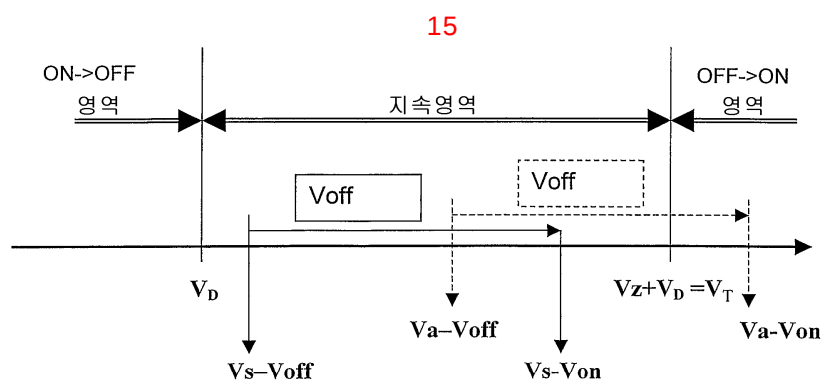
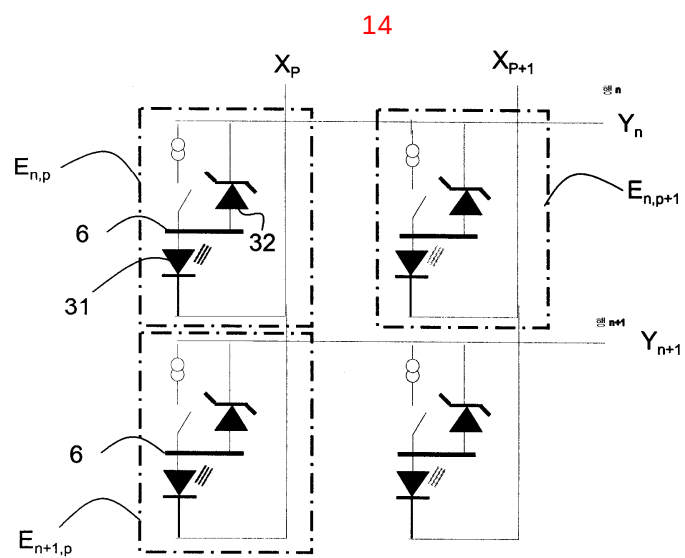
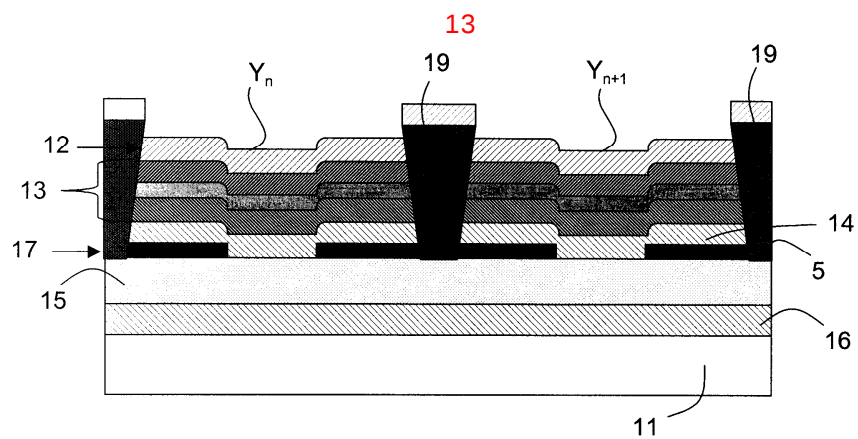




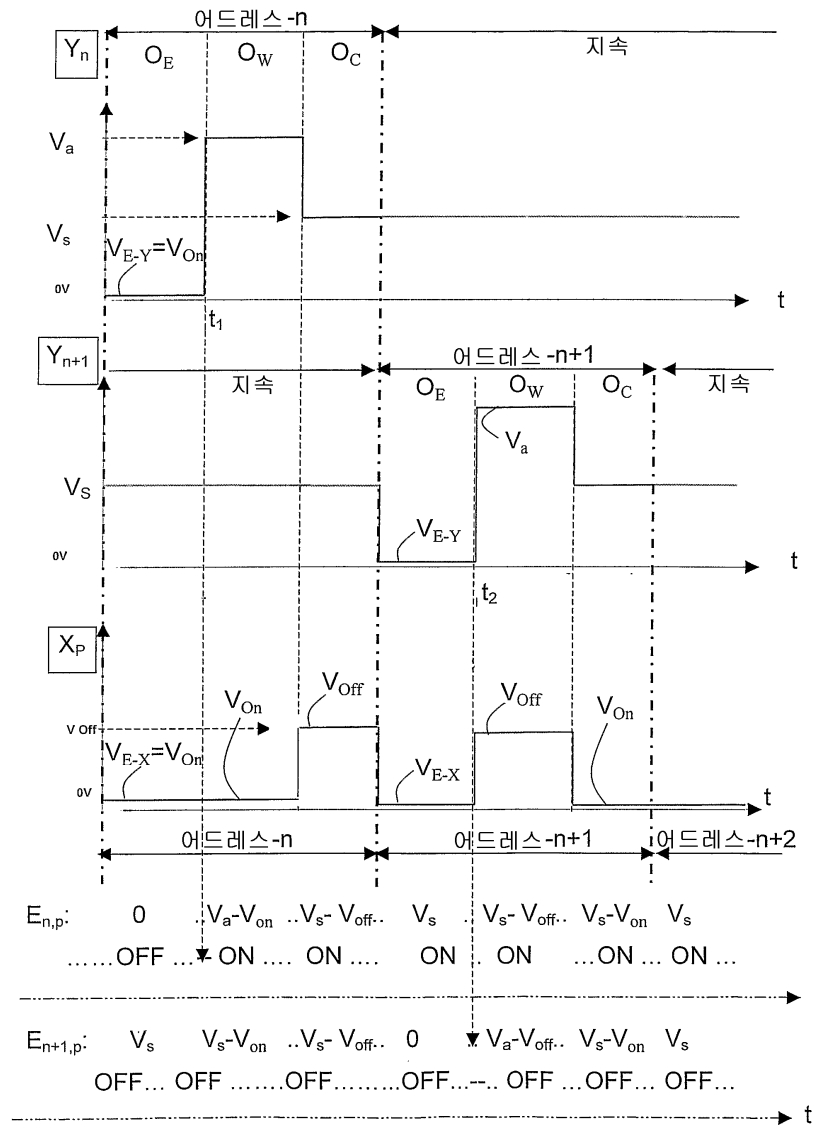








16



专利名称(译)	一种图像显示面板，包括记忆效应电致发光单元矩阵		
公开(公告)号	KR1020040018499A	公开(公告)日	2004-03-03
申请号	KR1020047000988	申请日	2002-07-17
[标]申请(专利权)人(译)	汤姆森特许公司 汤姆森许可		
申请(专利权)人(译)	汤姆森许可		
当前申请(专利权)人(译)	汤姆森许可		
[标]发明人	DAGOIS JEAN PAUL 다고와장폴 HAAS GUNTHER		
发明人	다고와,장 폴 하,군테르		
IPC分类号	G09G3/30 H01L27/32 H01L51/50 G09F9/30 G09G3/32 G09G3/20 H01L51/52 H05B33/00 G09G3/3216		
CPC分类号	H01L51/5036 G09G2300/0417 G09G2300/08 H01L27/3281 G09G2300/0885 G09G2300/0426 G09G2360/142 G09G2310/0251 G09G2310/06 H01L51/52 H01L27/3227 G09G3/3216 G09G2360/148		
代理人(译)	MOON , KYOUNG 金 KIM , HAK SOO		
优先权	2001010289 2001-07-27 FR		
其他公开文献	KR100860799B1		
外部链接	Espacenet		

摘要(译)

本发明涉及一种包括电致发光有机层 (13) 和光电导层 (15) 的面板，该面板包括在两层之间彼此电绝缘的电极 (6) 的中间层 (14) 我有。面板的电池具有记忆效应，简化了电池，特别是操作;优选地，在寻址步骤期间，使用补偿操作 (O c)。通过使用中间不透明层17中的开口21或通过使用半导体，可以简单且经济地实现每个单元中的电致发光层13和光电导层15之间的光学耦合。可以改编。 11

