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(12)

(KR)  
(B1)

(51) 。 Int. Cl.<sup>7</sup>  
G02F 1/133

(45)  
(11)  
(24)

2004 04 27  
10-0427992  
2004 04 08

(21) 10-2001-0013430  
(22) 2001 03 15

(65)  
(43)

10-2001-0092374  
2001 10 24

(30) 2000-72649 2000 03 15 (JP)

(73)                   가         가

가         22   22

(72) 2-10- -508

1-2 10-504

17-4                      303

(74)

•

(54)

2

,

■

,

가

가

가

1

1 (1) 가 .  
2 1 (1) .

3 1 (1)  
 .  
 4 1 (21) 가 .  
 5 4 (21)  
 6 4 (21)  
 7 4 (21)  
 8 4 (21) 가 .  
 9 4 (31) 가 .  
 10 9 (31)  
 11 9 (31)  
 12 9 (31)  
 13 3  
 14 13 (41)  
 가 .  
 15 4 .  
 16 5 .  
 17 .  
 18 .

,  
 , TV , (CRT) (LCD)가 .  
 , 가 ,  
 가 ,  
 , TFT , MIM  
 , 가 ,  
 가 ,  
 4-288589 가 ,  
 -258169 가 , 9  
 , , 1 ,  
 가 , CRT ,  
 가 , CRT , 1 ,  
 가 ,  
 17 1 ,  
 가 ,  
 64-82019 , 1 ,  
 , Y1, Y2, . . . 가 1 ,  
 , 11-202285 , 11-202286 ,  
 ,









Y, TFT, (3) 2X가, 2X (3)

2X, 2Y, (4) 2X, 가

(5) 가

, 1 가

(1) 가, 2Y (3)가, 1, Cs 가

(4) (5) Clc Ccs (9)  $\Delta V_{cs}$  (4) (7) (1) (3)가

0)  $\Delta V_{clc} = \Delta V_{cs} \times C_{cs} / (C_{cs} + C_{lc})$  가  $V_{cs}$

2, 1 (1) (4) (3) ON TFT 가 가

1 1 2Y 가 가 (10) 가 가, 1

(4) (10) 가 (10) 가 (4) (7)

(7) 2X ON (5) (8) (7) (10) (10) 가 가 (6)

(9) Cs (4) (10) 가 (3)가

(10) 가 Cs, ON 가 (3)가

$\Delta V_{cs}$  (7) 가 Ccs

Clc, (5)  $\Delta V_d = \Delta V_{cs} \times C_{cs} / C_p$  (7)  $V_d$ ,  $\Delta V_d$  가  $\Delta V_{cs}$  (4)

$V_d'$  가,  $V_d' = V_d + \Delta V_d$  (10)  $\Delta V_{cs}, C_{lc}, C_{cs}, C_p$

3, 2Y (6) 가 Cs

t(I), t(H), t(D)  $10\% \leq t(D)/t(H) \leq 70\%$  t(I)

D)/t(H) 가 가 10% 가

가, t(D)/t(H) 70% t(I) 30%

가, 1 70% t(D) 가  $V_c$

,  $\Delta V_d > V_c$   $\Delta V_d$   $V_c$

$\Delta V_{cs}$ 가  $|\Delta V_{cs}| > V_c \times C_p / C_{cs}$   $C_p = 0.45\text{pF}$ ,  $C_{cs} = 0.15\text{pF}$ ,  $|\Delta V_{cs}| =$

15V,  $V_d = 0$ ,  $\Delta V_d = 15 \times 0.15 / 0.45 = 5.0(\text{V})$ 가 가

4, 1 Yn-1, Yn, Yn+1, Yn+2가 가 2Y (4) (5)

(8) (6) (6) 2Y (6) Yn-1,

(4) 가 가 2Y, Cn-1, Cn, Cn+1, Cn+2 가

Yn, Yn+1, Yn+2 가

5 6 , 4 (21)  
2Y (6) 2Y (8) (6) 5 (7) (7)  
(8)  
7 , 4 (21)  
Y1, Y2, Y3, . . . Yn, Yn+1, Yn+2 ON ,  
가 , 1 ON 가 가 ,  
Y1, Y2, Y3, . . . Yn, Yn+1, Yn+2 ON 가 , 1  
C1, C2, C3, . . . Cn, Cn+1, Cn+2 가 가 ,  
C1, C2, C3, . . . Cn, Cn+1, Cn+2 Y1, Y2, Y3, . . . Yn, Yn+1, Yn+2 ON  
1  
8 , 4 (21)  
2X , (11) Xn-1, Xn, Xn+1, Xn+2가 가 2Y ,  
(12) Yn-1, Yn, Yn+1, Yn+2 ON ,  
2Y 가 2Y (6) (9) ,  
Cn-1, Cn, Cn+1, Cn+2가 가 (12) (9)  
2Y (6) 1  
9 , 2 (31) 가  
(31) 2Y (8) 1 (3)가  
(5) Yn-1 가 (8) Yn+1 가  
1 가 , 1  
(5) (8)  
, 1 Yn-1 가 , 1 Yn+1 가  
10 11 , 9 (31)  
. 11 , 10 (7) 1 2Y (8)  
, 4 (7) , 1 2Y 5 6 (8)  
(21)  
12 , 2Y 가 Y1, Y2, Y3, . . . Yn, Yn+1, Yn+2  
. 4 (21) 7  
Y1, Y2, Y3, . . . Yn, Yn+1, Yn+2 , 7 Y1,  
C1, C2, C3, . . . Cn, Cn+1, Cn+2 ON 가 가 ON 가 가  
(3) ON (8) (5) 가 ON  
가 (5) 가  
(3) ON  
(3)가  
13 , 3 (m )  
, Y1, Y2, . . . Ym 가 가 (5) (9)  
Cm 가 가 , C1, C2, . . . ,  
14 , (41) m  
49) m (6) 768 (41)  
, m=32  
, 9 (31) 9  
(31) (5) Y1,  
Y2, Y3, . . . Yn, Yn+1, Yn+2 C1, C2, C3, . . . Cn, Cn+1, Cn+2 m  
Y1, Y2, Y3, . . . Yn, Yn+1, Yn+2  
(6) , (6)  
) 가 11-202285 11-202286  
1 (6) 가 4 1 4  
(6) 1 가 4  
1 가 ,  
, 가

15 , 4  
 ,  $\Delta V_{CS}$  가  
 가  
16 , 5  
 $\Delta V_{CS}$  ,

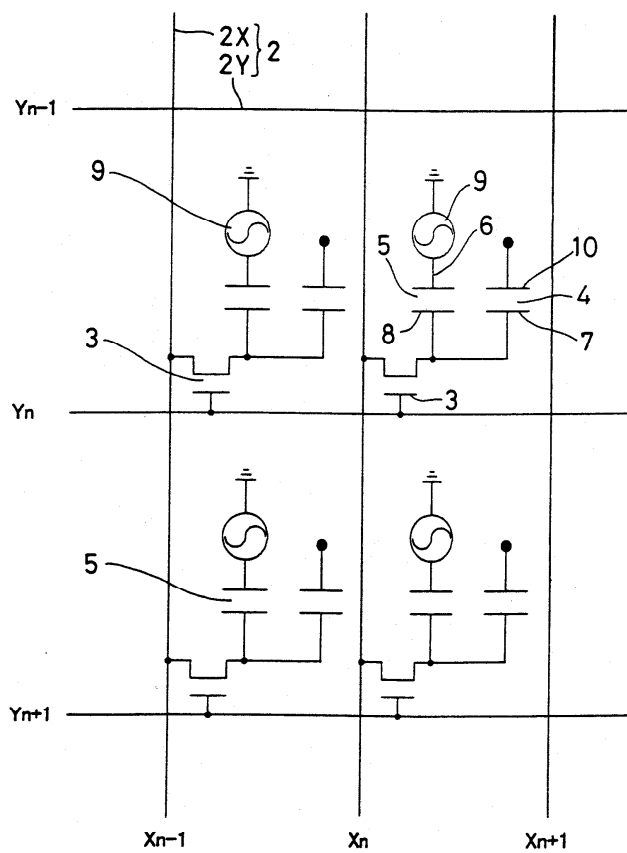
$$(57) \quad \begin{aligned} & \text{[The } \langle \text{Noun} \rangle \text{ is a } \langle \text{Noun} \rangle \text{]} \\ & \text{[The } \langle \text{Noun} \rangle \text{ is a } \langle \text{Noun} \rangle \text{]} \end{aligned}$$

5. 1 4 , ,

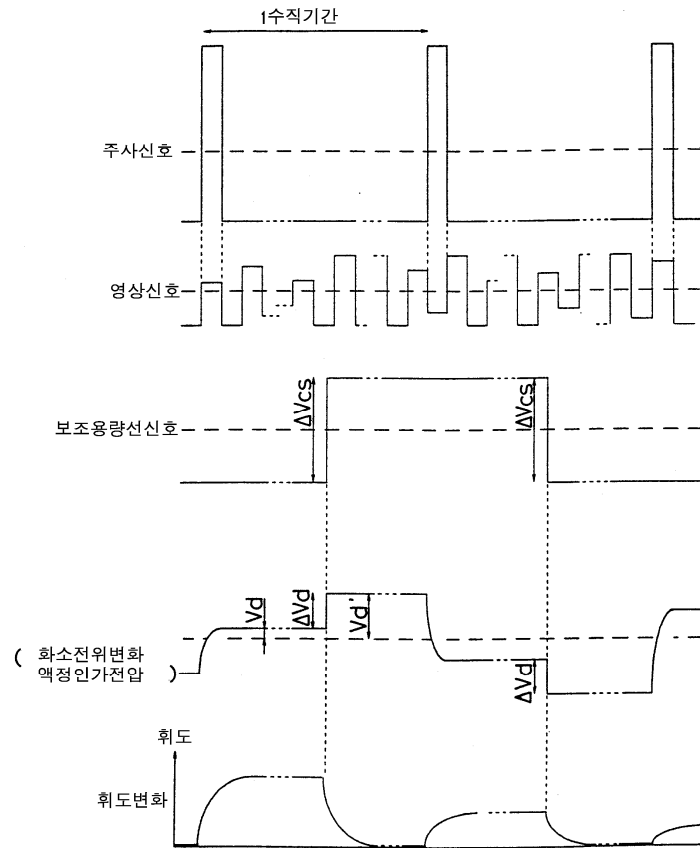
6. 1 4 , 가 가

7. 1 4 가 , 가 , 가 , 가 ,
8. 1 ; ; , 가 ; , 가 , 가 ,
9. 1 ; ; , 가 ; , 가 1 , 가 1 가 ,
10. 8 , 가 , 가 , 가 , 가 ,
11. 9 , 가 , 가 , 가 , 가 ,
12. 8 11 , 가 가 10% 70% ,
13. 8 11  $\Delta V_{cs}$  ,  $|\Delta V_{cs}|$  가, 가  $V_c$  ,  $C_{cs}$   $C_p$  ,  $|\Delta V_{cs}| >$   
 $V_c \times C_p / C_{cs}$
14. 8 11 , , 가
15. 8 11 , ,

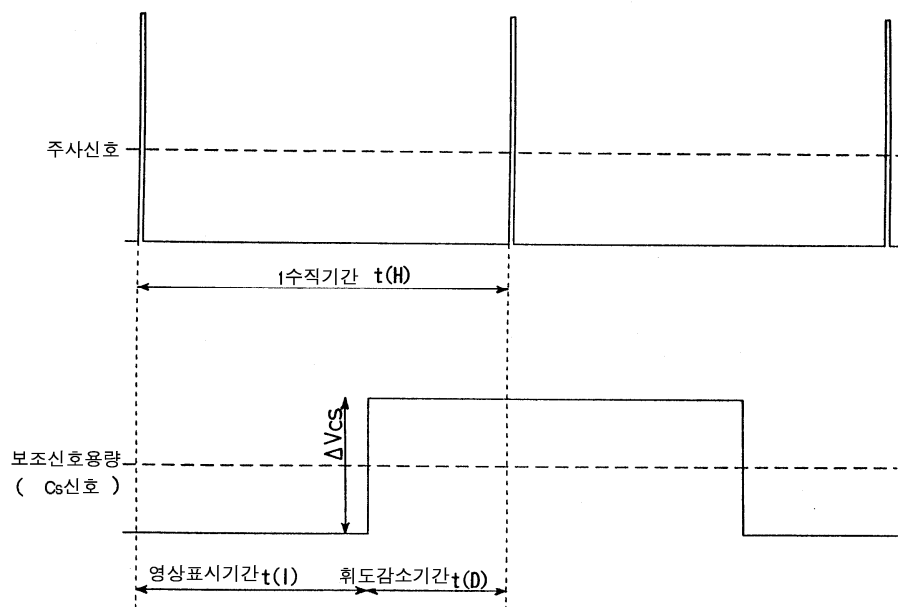
1

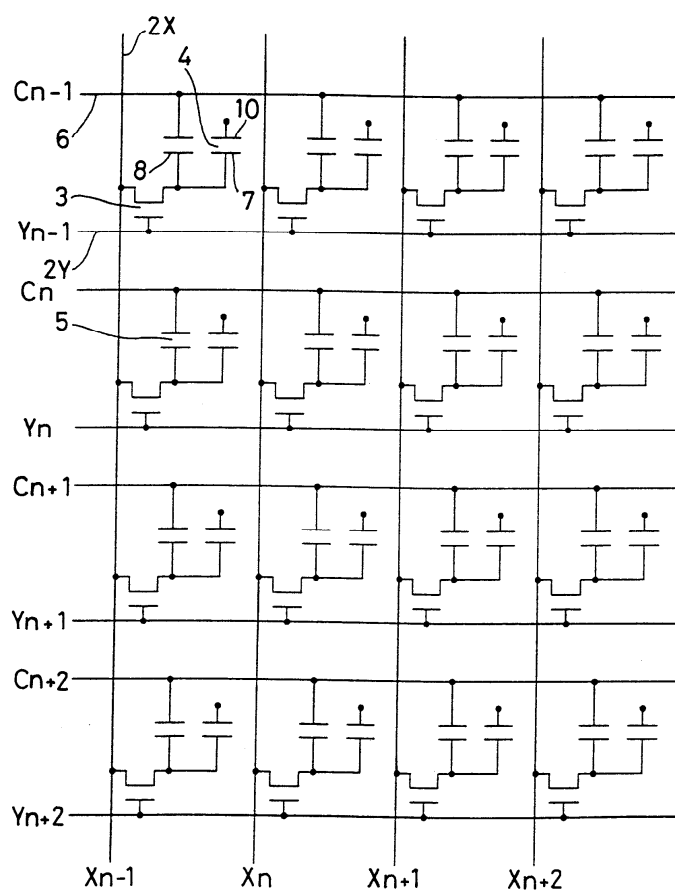
1

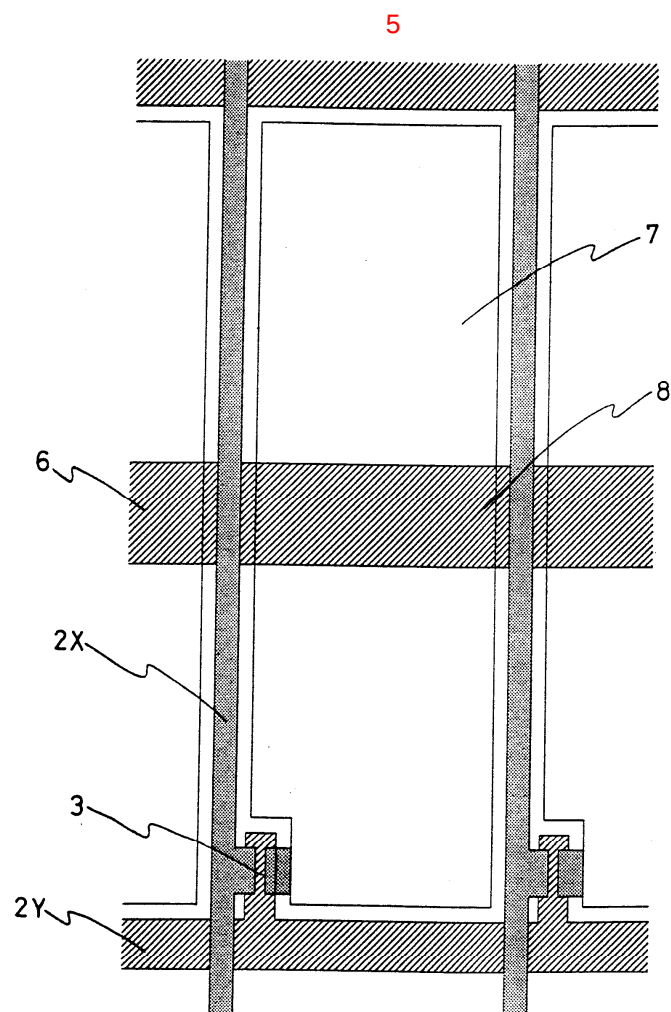
2

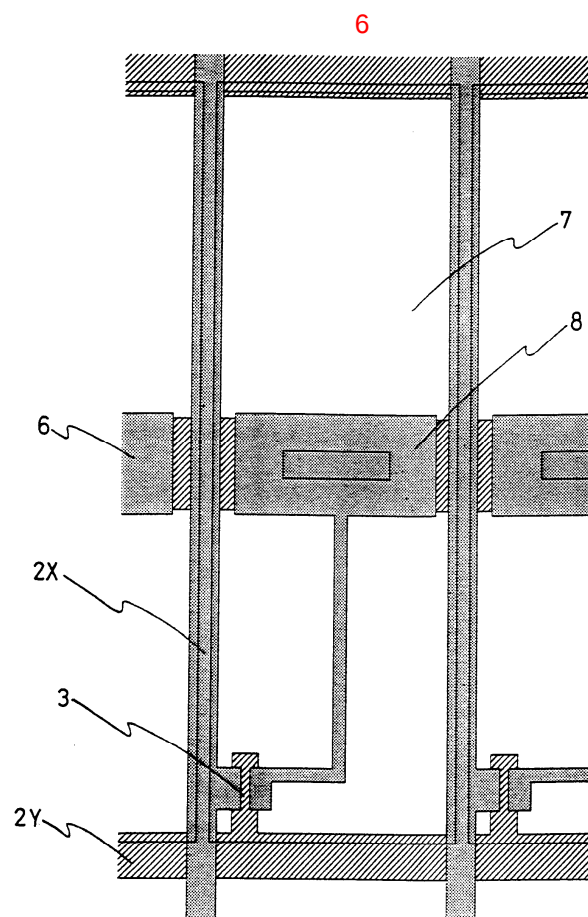


3

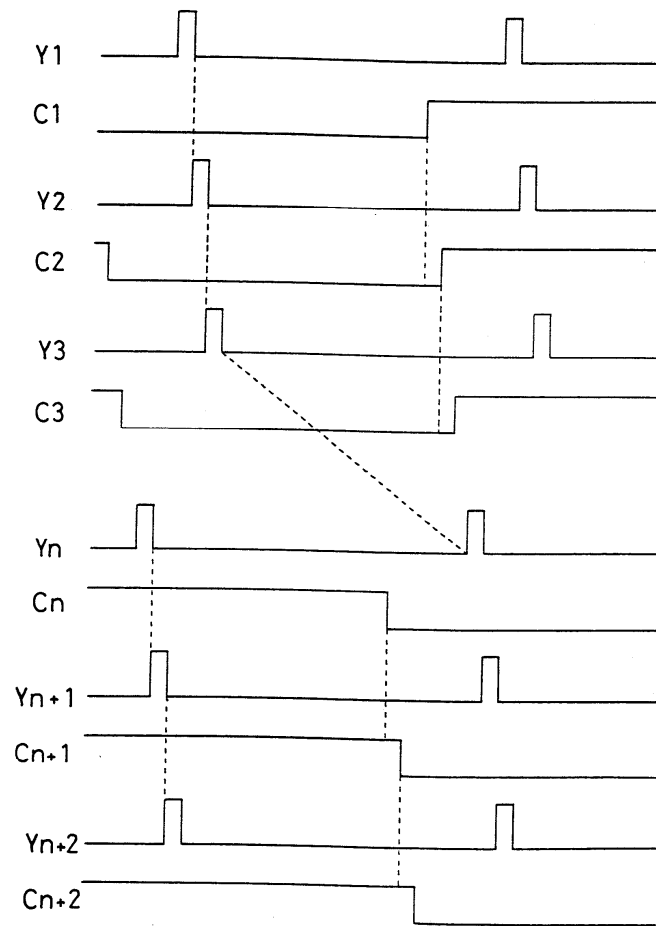




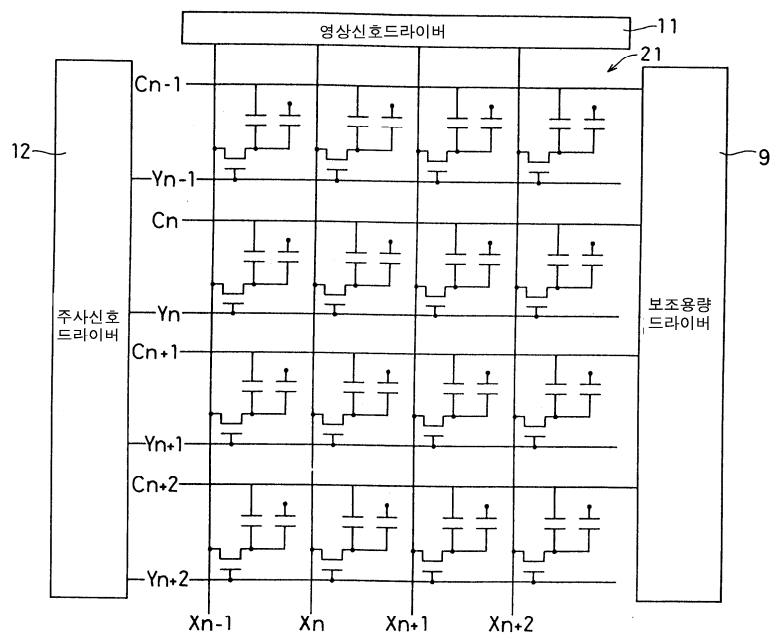


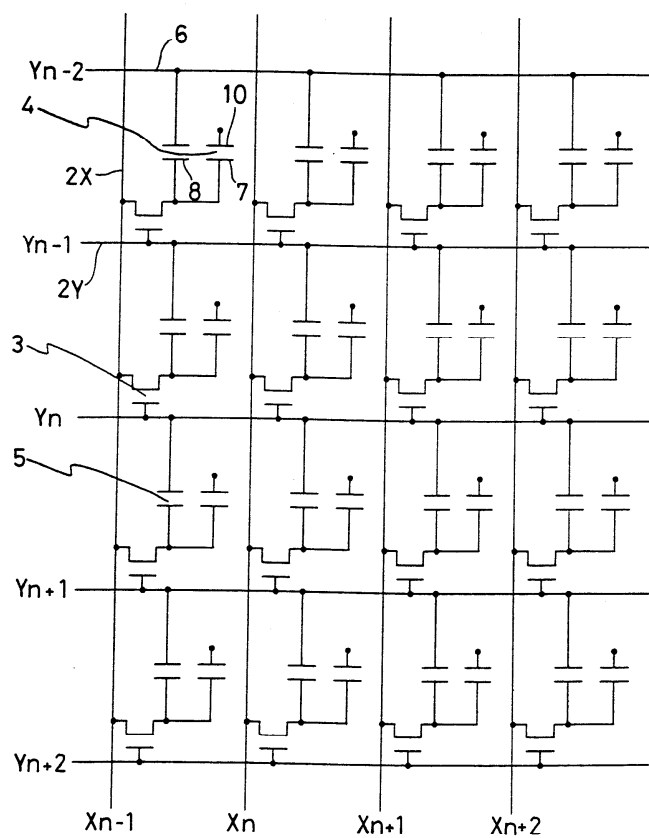


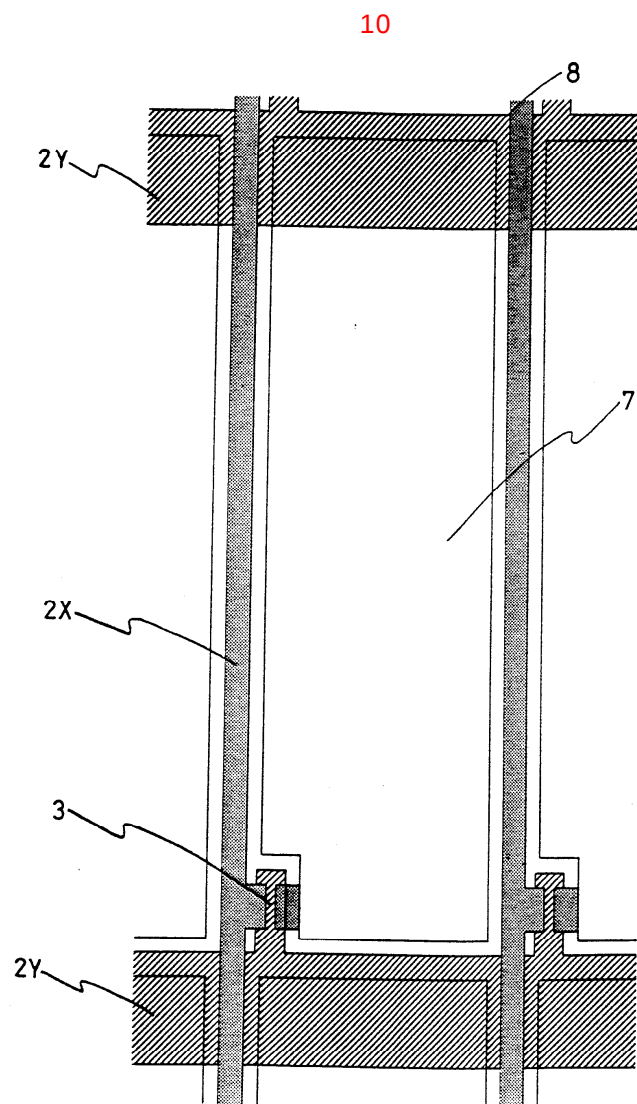
7

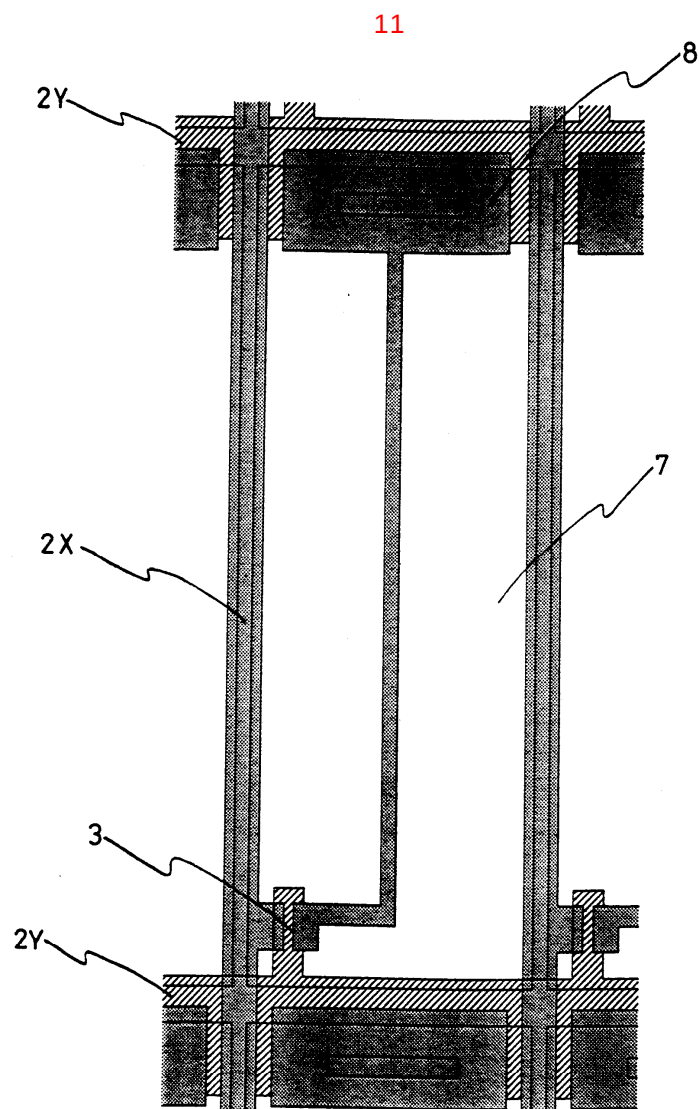


8

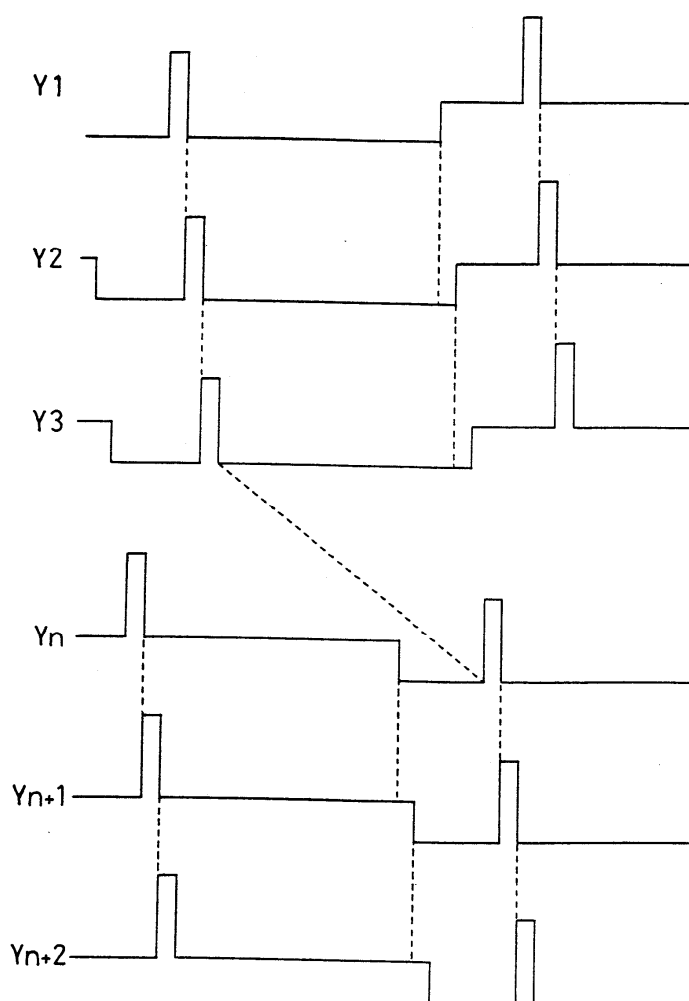




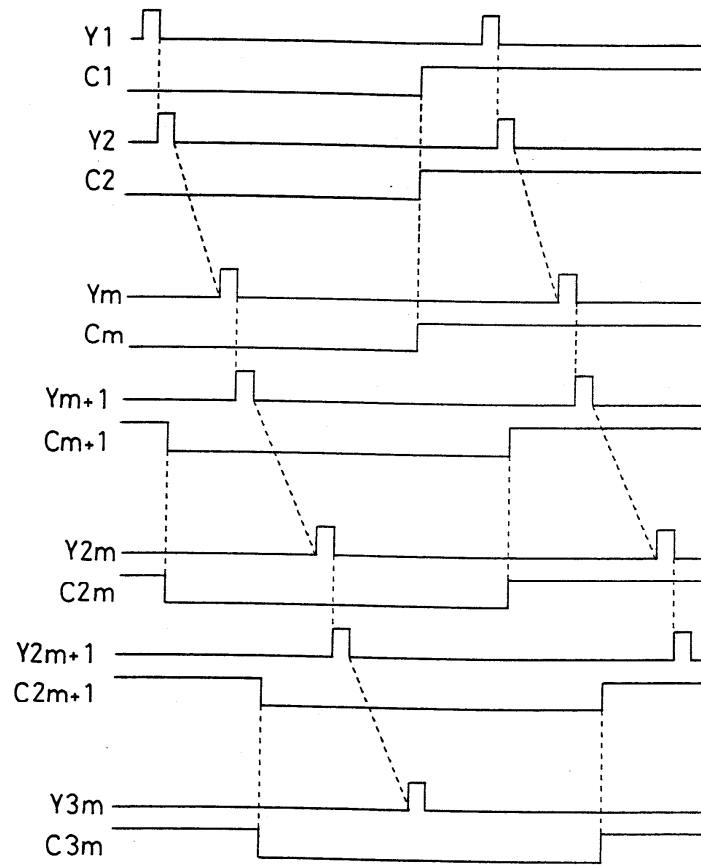




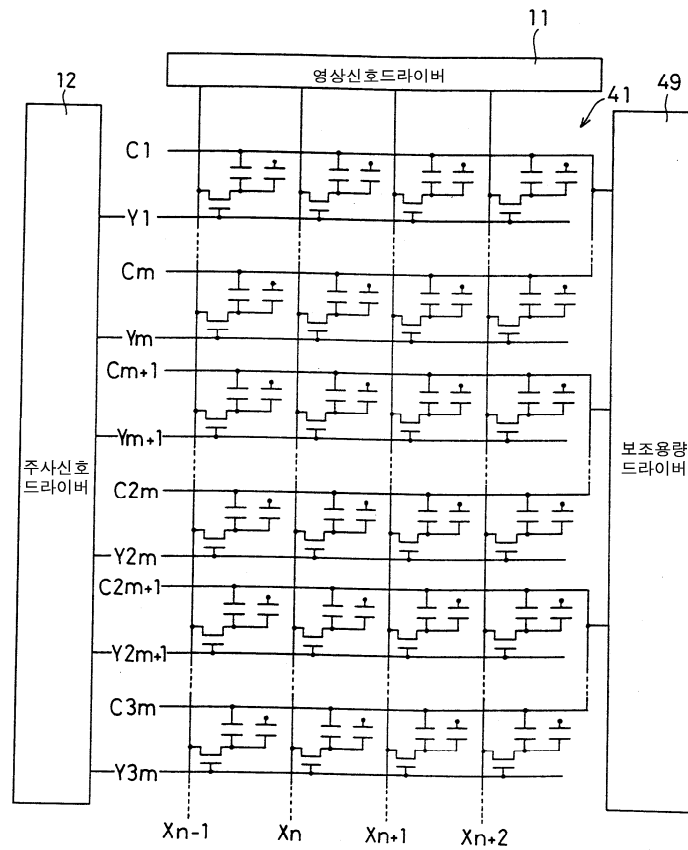
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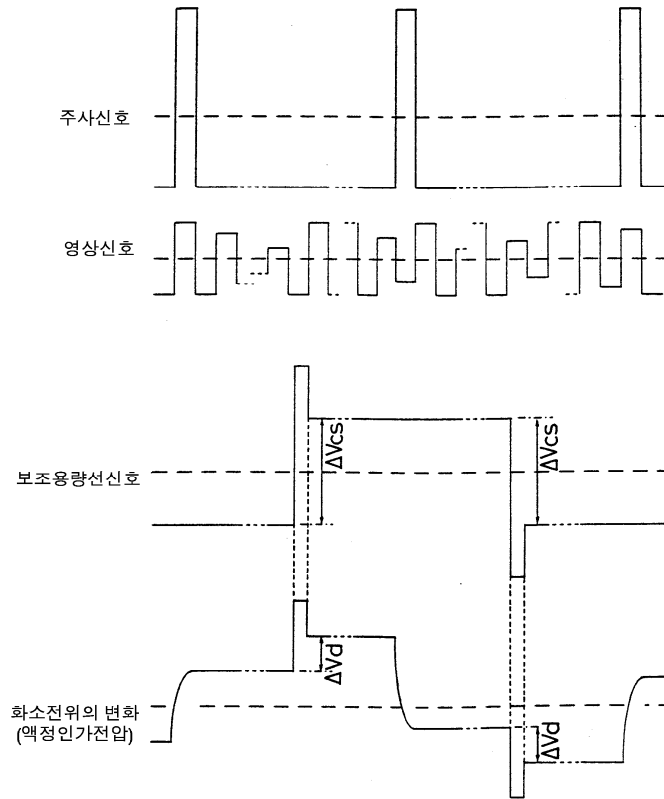
13



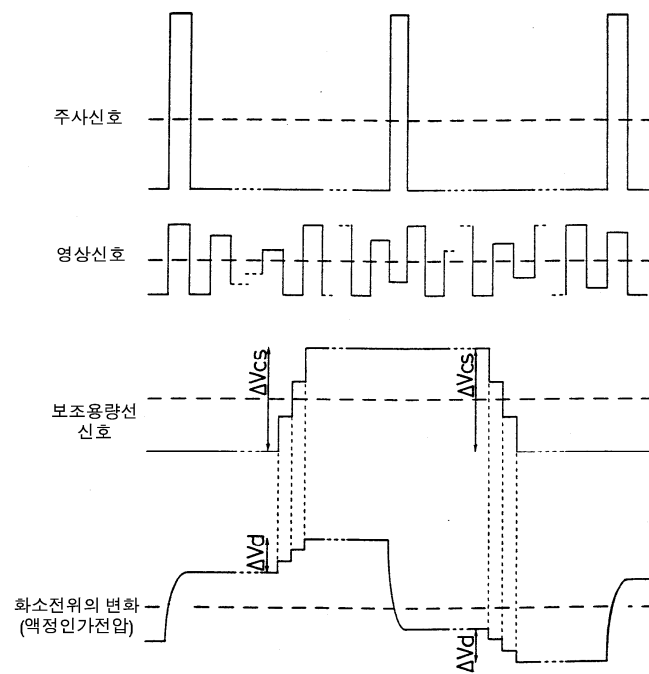
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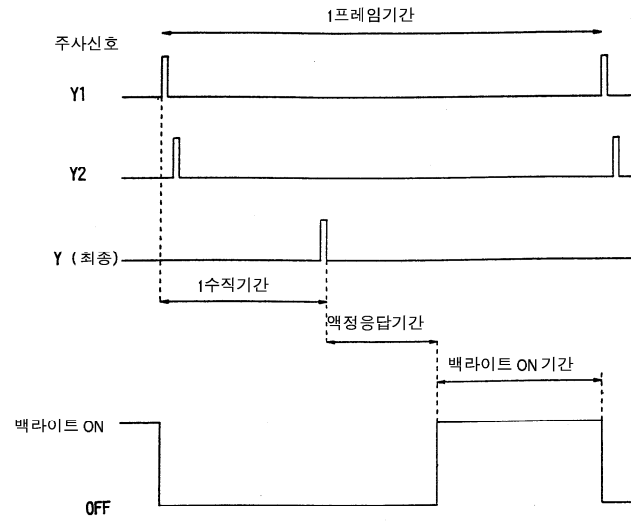
15



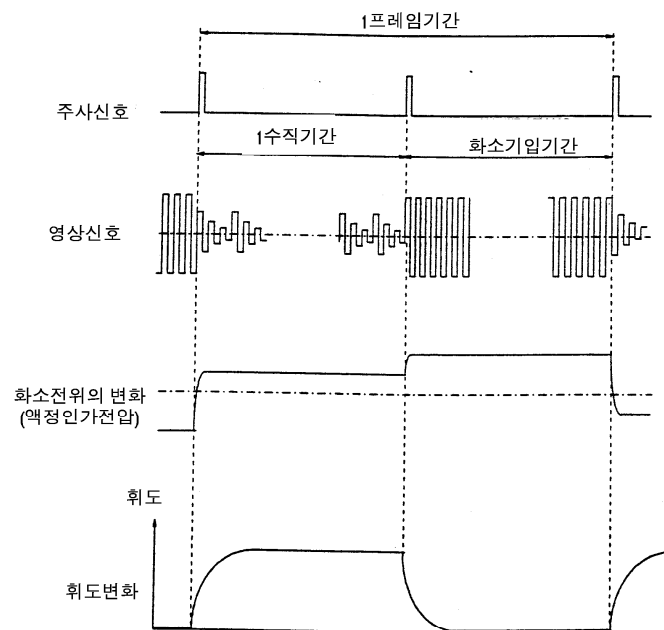
16



17



18



|                |                                                                                 |         |            |
|----------------|---------------------------------------------------------------------------------|---------|------------|
| 专利名称(译)        | 有源矩阵型显示装置及其驱动方法                                                                 |         |            |
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| [标]申请(专利权)人(译) | 夏普株式会社                                                                          |         |            |
| 申请(专利权)人(译)    | 夏普株式会社                                                                          |         |            |
| 当前申请(专利权)人(译)  | 夏普株式会社                                                                          |         |            |
| [标]发明人         | BAN ATSUSHI<br>반아츠시<br>OKADA YOSHIHIRO<br>오카다요시히로<br>NAKAMURA WATARU<br>나카무라와타루 |         |            |
| 发明人            | 반아츠시<br>오카다요시히로<br>나카무라와타루                                                      |         |            |
| IPC分类号         | G09G3/36 G09G3/20 H04N5/66 G02F1/133                                            |         |            |
| CPC分类号         | G09G3/3659 G09G3/3614 G09G3/3655 G09G2320/0261 G09G2300/0876                    |         |            |
| 代理人(译)         | LEE, 金泰熙                                                                        |         |            |
| 优先权            | 2000072649 2000-03-15 JP                                                        |         |            |
| 其他公开文献         | KR1020010092374A                                                                |         |            |
| 外部链接           | <a href="#">Espacenet</a>                                                       |         |            |

# 摘要(译)

作为用于减少有源矩阵型显示装置显示运动图像的残像的相似性脉冲显示，液晶电容器形成在扫描线和信号线的交叉点上。携带图像的显示。提供辅助电容用于维持电位差以在液晶电容上显示。辅助电容两端的电极中的一个辅助电容电极通过像素电极连接到开关元件。在中央凹后，其中开关元件的液晶电容和像素容量通过扫描线选择性地充电用于导通状态磷的信号线的图像信号，并且预定时间通过以便指示亮度由液晶电容减少辅助电容驱动器授权辅助电容的电极中的信号。

