



2 .  
3 1 .  
4 5 3 .  
6 2 .  
7 6 .  
8 13 3 8 .  
14 9 .  
15 14 .  
16 15 .

\* \*

100, 200 : 1 110, 210 :  
120 : 130, 230 :  
140, 240 : 150, 220 : 2

(Electroluminescent Display Panel)

(Electroluminescen) 가 (LCD) 가 , 가 ,  
(CNS, Car Navigation System), TV LCD 가 ,  
가 , 가 ,  
1 가 (SL) (GL) 2  
(13) 2 1, 2 (11)(13) , 1 가 2  
(15) , 1 (11) 1, 2 (11,13)  
(15) 1 3 (15) 2  
(17) ,

4 (Vdd) (19) (20) , 1 4 1 PMOS .

(GL) 가 , (SL) (15) (15)

1, 2 (11,13) 가 4 (19) (15)

(20) 3 (17)

1, 2 (11,13) (15)

가 (15) (1f) , 가 (2f) (blurring)

(OFF)

가

가 1 1 , 1 가 1

2 1

(OFF)

2 1 1 가 1

1 2 , 2

(OFF)

(OFF)

3, 6, 1, 2, 7, 6, 4, 5, 8, 3, 13  
3, 8, 14, 14, 15, 16, 15  
(GL) (SL)  
(GL) 가  
(100), 1 가 1 (110), 2 1  
(100) (110) (120), (120) (110)  
(130), (130)  
(OFF) (140)  
1 (100) 1 2 PMOS (P1)(P2), (120)  
1 PMOS (P1) (Vdd) 3 PMOS (P3), 3 P  
MOS (P3) (130) 4 PMOS (P4)  
(140) PMOS (110) (140) (110)  
1 가 2 (LOW) 가 (130)  
(110)  
(110) (140) (E) (110) 가  
(140) (130)  
(GL) 가 (SL)  
(110) 1, 2 PMOS (P1)(P2) 가 4 PMOS  
(110) (P3) (130)가  
(P4) (130)가  
t1 가 t1 (130) 가  
(1f), (2f) (1f)  
(110) (blurring) (130)  
(GL(N)) 2 (140) (E)가  
(GL(N-1)) ( )가 (14)  
(110)  
7  
(GL(N-1)) 가  
(GL(N)) (140) 4

(110) (SL) 가 , 1, 2 PMOS (GL(N)) (P1)(P2) 가  
 4 PMOS (110) (P4) , 3 PMOS (P3) (130)가  
 8 3 4  
 , (140) 2 PMOS (P2) 4 PMOS (P4)  
 ( )가 (110) (140) (E) (140)가  
 , (130)가 4 PMOS (P4)  
 , , (GL) 가 , (SL)  
 , (130)가 , (110)  
 9 4 7  
 , 4 6 8 (140)  
 (140) 2 PMOS (P2) 4 PMOS (P4) (GL(N)) (GL(N-1))  
 (E)가  
 10 13 1 4 (120) 4  
 PMOS (P4) (130) (140) 2 (15  
 0) 2 NMOS (150) 5 8 (140)가 (140)가  
 , (130) 가  
 14 9  
 , (GL) (SL)  
 , (GL) 가  
 1 1 (200) , 1 가 1 (200)  
 (Vdd) 1 1 (200) 2 (220) , 2 (210) ,  
 (210) 1 (230) ,  
 , 1 (200) 2 (220) 2, 3 PMOS (240)  
 (PM2)(PM3)  
 (SL) 1 (200) 15 (Vdd) , 1  
 (200) 1 PMOS (PM1) 1 PMOS  
 2 (220) (230)  
 1 PMOS (PM1)  
 1 8 (SL)  
 16 15 , (210) , (240) (E) (GL)가  
 (230) 1 4  
 9 가 , 2 8

가 , 가 , 가

가

(1f) (2f) (1f) (110)  
(130) (blurring)  
가 (110)(210)

9 (SL) 1 PMOS (SL) 1 PMOS (PM1)  
(SL) (PM1)  
가

(57)

1.

가 1  
1 가 1 2 1  
1

(OFF)

2.

1 1 1 2  
PMOS

3.

2 1 PMOS 3 PMOS 1  
3 PMOS 4 P  
MOS

4.

3

4 PMOS

5.

1 ,

6.

1 ,

1

7.

3 ,

2 PMOS

4 PMOS

8.

1 ,

PMOS

9.

1 ,

가 , (LOW)

가

10.

1 ,

11.

1 ,

2

12.

11 ,

2

NMOS

13.

,

가

1 ,

1 가

1

2

1

,

1

2

2

(OFF)

14.

13

1  
1 PMOS  
2

1 PMOS 1

15.

14

1

2

2, 3 PMOS

16.

13

17.

13

1

2

18.

13

PMOS

19.

13

가 , (LOW)

가

20.

13

21.

18

2

3

22.

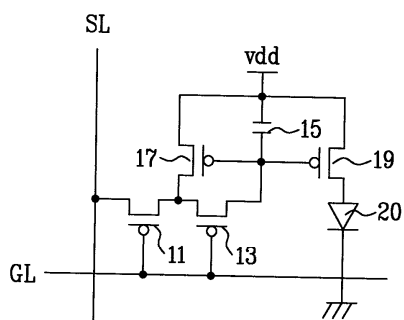
21

3 NMOS

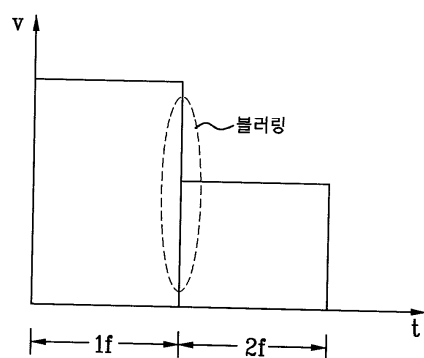
23.

(OFF)

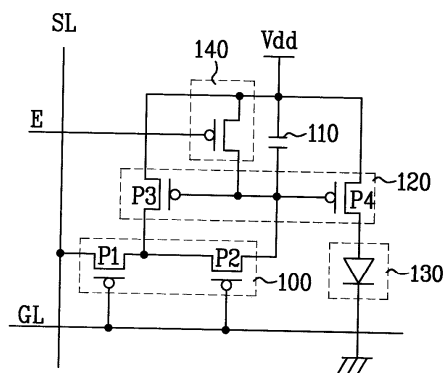
1



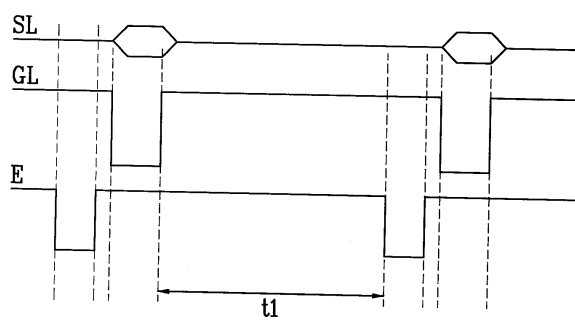
2



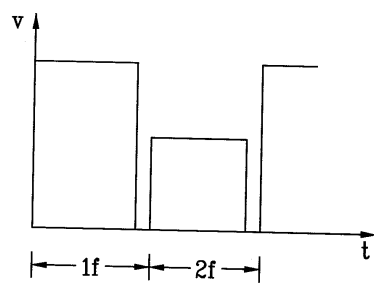
3



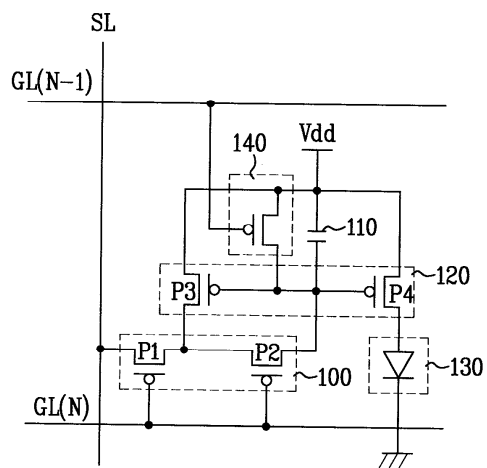
4



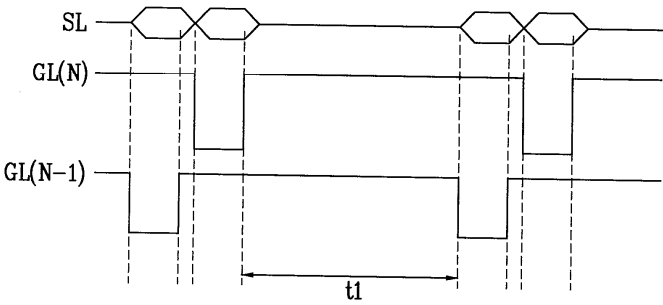
5



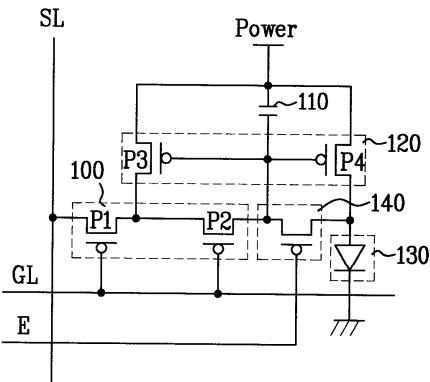
6



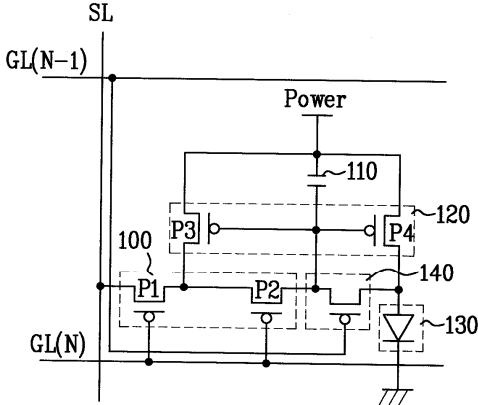
7



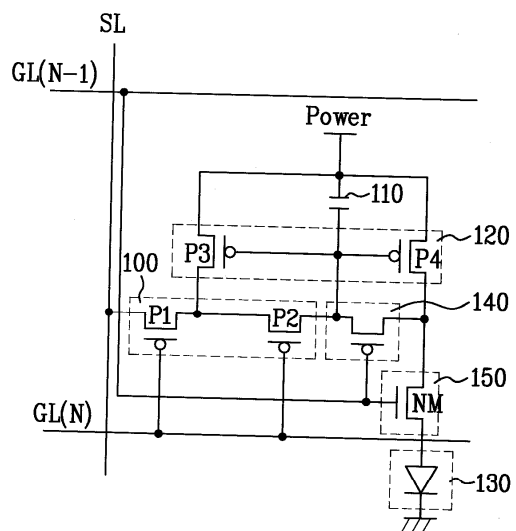
8



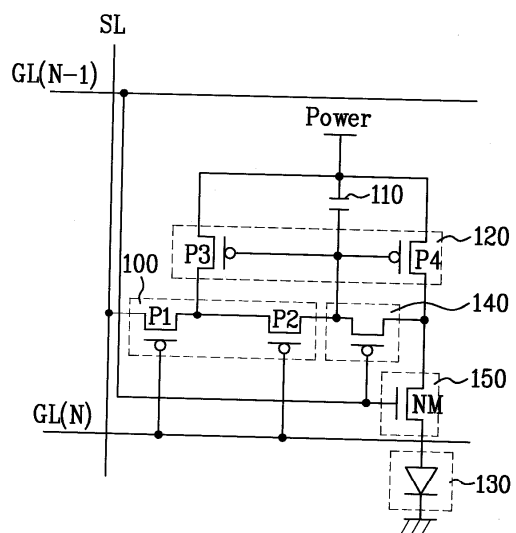
9



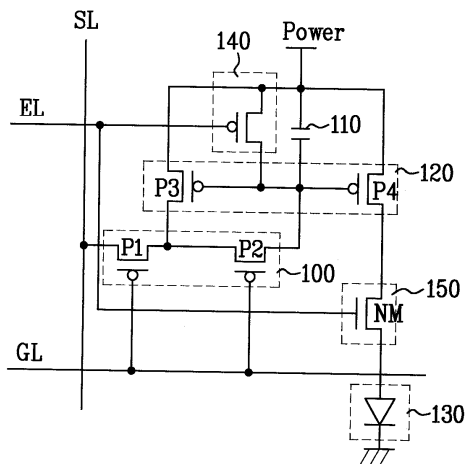
10



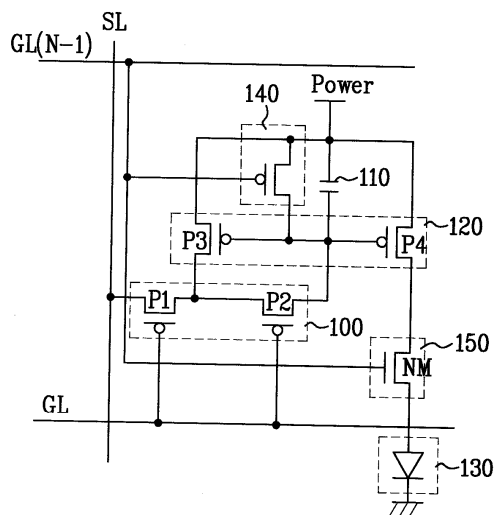
11



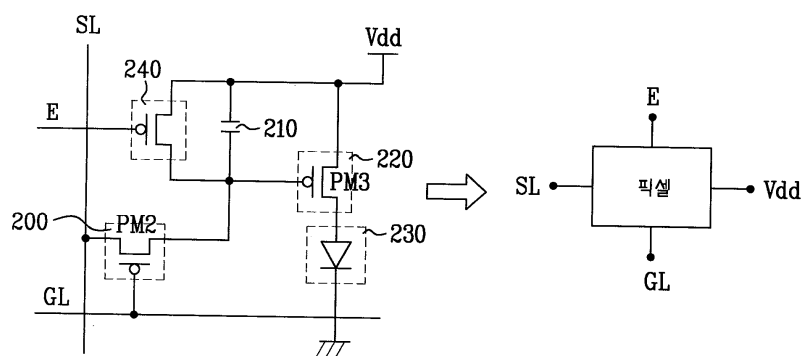
12



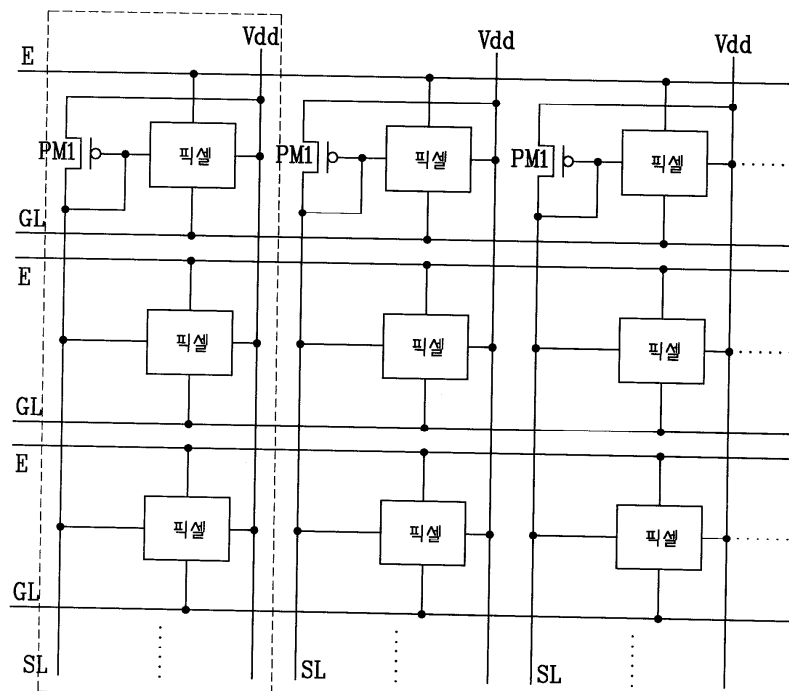
13



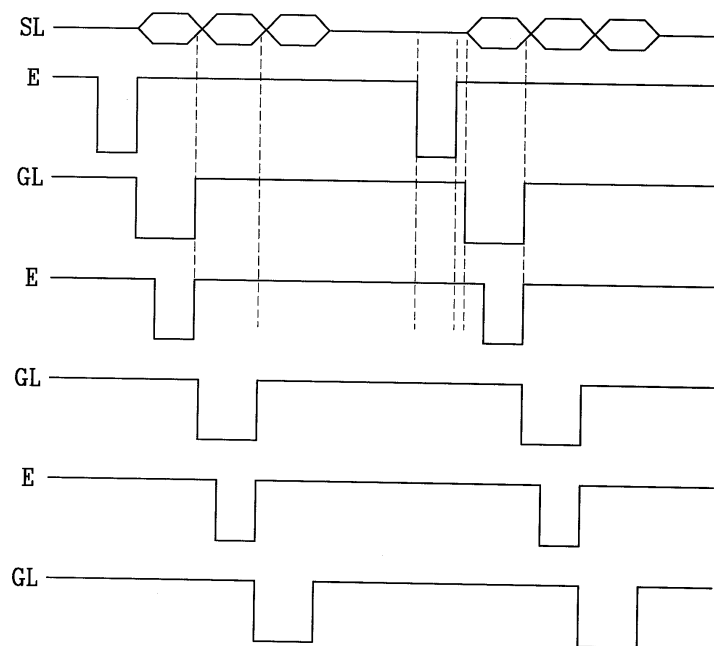
14



15



16



|                |                                           |         |            |
|----------------|-------------------------------------------|---------|------------|
| 专利名称(译)        | 电致发光显示面板及其驱动方法                            |         |            |
| 公开(公告)号        | <a href="#">KR1020030035195A</a>          | 公开(公告)日 | 2003-05-09 |
| 申请号            | KR1020010067155                           | 申请日     | 2001-10-30 |
| [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         | LEE HANSANG<br>이한상<br>PARK JOONKYU<br>박준규 |         |            |
| 发明人            | 이한상<br>박준규                                |         |            |
| IPC分类号         | G09G3/30                                  |         |            |
| 代理人(译)         | 金勇<br>新昌                                  |         |            |
| 其他公开文献         | KR100469344B1                             |         |            |
| 外部链接           | <a href="#">Espacenet</a>                 |         |            |

#### 摘要(译)

目的：提供一种电致发光显示面板及其驱动方法，以消除屏幕上的模糊现象，并通过在初始化电容器的过程中防止电致发光部分的发光操作在短时间内对数据电压充电前一帧的。组成：根据施加到栅极线的信号控制第一开关部分（100），以便切换数据信号。电容器（110）的第一端子与第一开关部分（100）的输出端子连接，第二端子与电源电压端子连接以对数据电压充电。电流镜部分（120）通过感应到电容器（110）的第一端子的电压来切换电源电压。电致发光部分（130）通过电流镜部分（120）的供电电压发光。发射抑制部分（140）放电前一帧的电容器（110）的电荷，以在预定时间内关断电致发光部分（130）。

