

(19)  
(12)

(KR)  
(A)

|                                            |                 |              |                               |
|--------------------------------------------|-----------------|--------------|-------------------------------|
| (51) 。 Int. Cl. <sup>7</sup><br>G02F 1/133 |                 | (11)<br>(43) | 10-2005-0006886<br>2005 01 17 |
| (21)                                       | 10-2003-0046865 |              |                               |
| (22)                                       | 2003 07 10      |              |                               |
| (71)                                       |                 |              |                               |
|                                            | 575             |              |                               |
| (72)                                       |                 |              |                               |
|                                            | 84              | 1 105 307    |                               |
|                                            |                 |              |                               |
|                                            | 252             |              |                               |
|                                            |                 |              |                               |
|                                            | 696-1           | 103 901      |                               |
| (74)                                       |                 |              |                               |
|                                            | :               |              |                               |
| (54)                                       | -               |              |                               |

- 가 , , 가 , .

7

- 1 - (field-sequential)
- 2 1 -
- 3 -
- 4 3 -

5 4 1 1

6 -

7 6 -

8

< >

10... , 40... ,

51... , 52... ,

53... , 54... ,

55... , 56... ,

57... ,  $T_R \dots$  ,

$T_G \dots$  ,  $T_B \dots$  ,

$T_{RS}$  ,  $T_{GS}$  ,  $T_{BS} \dots$  ,  $T_{RL}$  ,  $T_{GL}$  ,  $T_{BL} \dots$  ,

$LS_1$  ,  $LS_2$  ,  $LS_3 \dots$  ,  $LD_1$  ,  $LD_2$  ,  $LD_3 \dots$  ,

S... , G... ,

D... , COM... ,

$C_{11R}$   $C_{21B} \dots$  ,  $E_{11R}$   $E_{21B} \dots$  ,

$L_{11R}$   $L_{21B} \dots$  , 332... ,

CT... , 51... ,

52... ,  $t_{GF} \dots$  ,

$C_{ST} \dots$  .

가 (field-sequential) (back-light) 27717

1 (51), (52), (53), (54), (55), (10), (40), (56), (57)

6) (57) (51), (52), (53), (54), (55), (5

(56) (40) (10)

(57) (51)

(57) (52) (52)

(57) (53) (53)

(55) (10) (55)

(54) (57) (10)

2 1 (10)

(T<sub>R</sub>), (T<sub>G</sub>), (T<sub>B</sub>)

(T<sub>GS</sub>, T<sub>BS</sub>) (T<sub>RL</sub>, T<sub>GL</sub>, T<sub>BL</sub>) (T<sub>RS</sub>, T<sub>GS</sub>, T<sub>BS</sub>) (T<sub>RS</sub>

(LS<sub>1</sub>, ..., LS<sub>n</sub>) 가 가 (back-light)

(T<sub>RL</sub>, T<sub>GL</sub>, T<sub>BL</sub>) (40)

가

1

(T<sub>RS</sub>, T<sub>GS</sub>, T<sub>BS</sub>) (T

RL, T<sub>GL</sub>, T<sub>BL</sub>) 1/3 1/6 (LS<sub>1</sub>)

n (LS<sub>n</sub>) 1/3 1/6

2 3 1 (10)

(332)

(D) (E<sub>11R</sub> E<sub>31B</sub>) (332) (E<sub>11R</sub> E<sub>31B</sub>) (332) (G) (332) (54)

(LS<sub>1</sub> LS<sub>3</sub>) (55) (LD<sub>1</sub>

LD<sub>3</sub>) (332) (S) (E<sub>11R</sub> E<sub>31B</sub>) (

COM) (C<sub>11R</sub> C<sub>31B</sub>) (T<sub>R</sub>)

(10)

1 (LS<sub>1</sub>) (N- ) 가 가 1

(LS<sub>1</sub>) 가 (55) 가

(E<sub>11R</sub>) (LS<sub>2</sub> LS<sub>n</sub>) (L<sub>11R</sub>) (T<sub>RS</sub>)

(T<sub>RL</sub>)

(C<sub>11R</sub> C<sub>31R</sub>)

[illegible]

$(T_R)$   $(T_{RS})$  .  
1  $(LS_1)$  , 18 (V) 가 가 , 1  $(LS_1)$   
 $(L_{11R})$  , (55) 가 가  $(E_{11R})$  가  
 $(E_{11R})$  5 (V)가 가 ,  $(L_{11R})$  10 (V) 가 ,  
 $(T_{RS})$   $(LS_2 \quad LS_n)$   
 $(T_{RL})$   
 $(E_{11R} \quad E_{31R})$  ,  
- 5 (V) 가 -  $(E_{11R})$   
 $(E_{11R} \quad E_{31R})$  , -  
 $E_{31R})$  가 , -  
 $(T_{RL})$  , (40) (back-light)  $(L_{11R} \quad L_{31R})$   
) (10) .  
 $(T_G)$   $(T_{GS})$  .  
1  $(LS_1)$  , 18 (V) 가 가 , 1  $(LS_1)$   
 $(L_{11G})$  , (55) 가 가  $(E_{11G})$  가  
 $(E_{11G})$  5 (V)가 가 ,  $(L_{11G})$  10 (V) 가 ,  
 $(T_{GS})$   $(LS_2 \quad LS_n)$   
 $(T_{GL})$   
 $(E_{11G} \quad E_{31G})$  ,  
- 5 (V) 가 -  $(E_{11G})$   
 $(E_{11G} \quad E_{31G})$  , -  
 $E_{31G})$  가 , -  
 $(T_{GL})$  , (40) (back-light)  $(L_{11G} \quad L_{31G})$   
) (10) .  
가 ,  $(T_B)$   $(T_{BS})$  .  
1  $(LS_1)$  , 18 (V) 가 가 , 1  $(LS_1)$   
 $(L_{11B})$  , (55) 가 가  $(E_{11B})$  가  
 $(E_{11B})$  5 (V)가 가 ,  $(L_{11B})$  10 (V) 가 ,  
 $(T_{BS})$   $(LS_2 \quad LS_n)$   
 $(T_{BL})$   
 $(E_{11B} \quad E_{31B})$  ,  
- 5 (V) 가 -  $(E_{11B})$   
 $(E_{11B} \quad E_{31B})$  , -  
 $E_{31B})$  가 , -

(T<sub>BL</sub>) , (40) (back-light) (L<sub>11B</sub> L<sub>31B</sub>)  
 ) (10) .  
 7 4 가 5 7 (51)  
 (G) (LS<sub>1</sub> LS<sub>n</sub>) (LS<sub>1</sub>, LS<sub>2</sub>)  
 (52) , (52) (SE) (SE)  
 (S) (LD<sub>1</sub> LD<sub>3</sub>), (D) (LD<sub>1</sub>  
 LD<sub>3</sub>) (D) (D) (CT)  
 (LD<sub>1</sub> LD<sub>3</sub>) (D) (52) (E<sub>11R</sub> E<sub>11B</sub>)  
 , (E<sub>11R</sub> E<sub>11B</sub>) ( 3 4 COM)  
 , , -

8  
 , -  
 , -  
 -  
 0.07 (pF) 가 0.6 (pF) 4.5 (ms) 16.7 (ms)  
 ,  
 가

(57)

1.

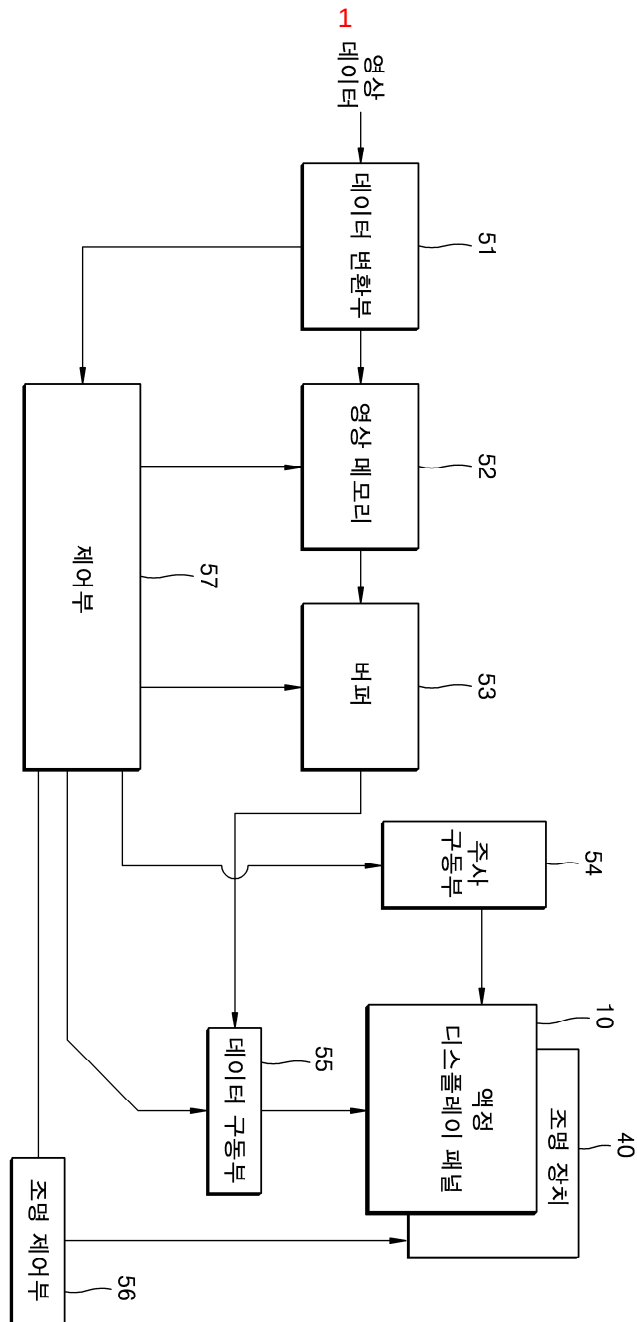
가  
 ,  
 - (Field-Sequential)  
 ,  
 가

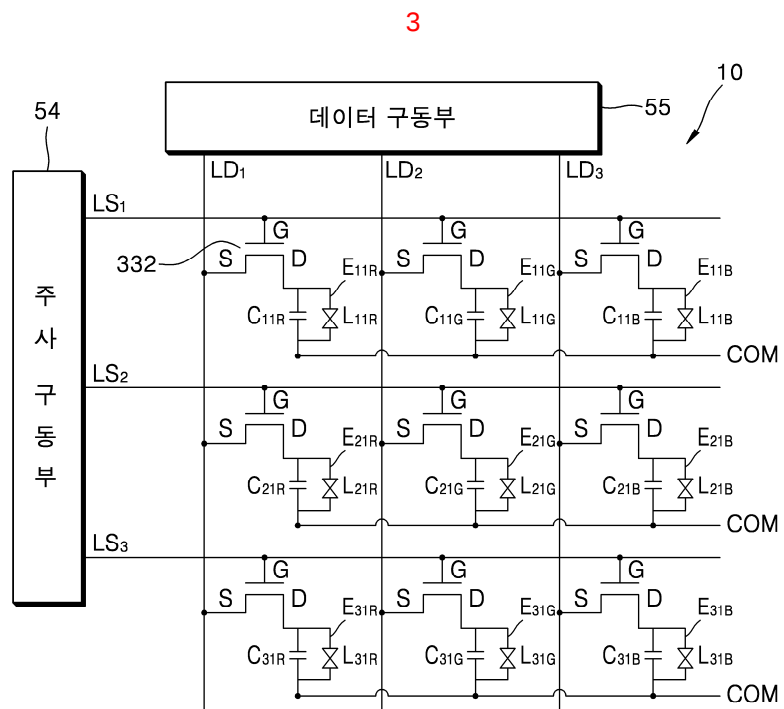
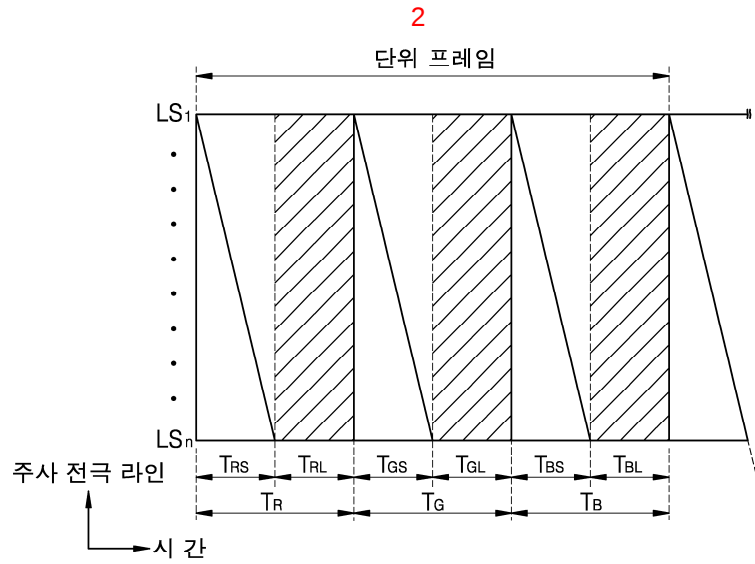
2.

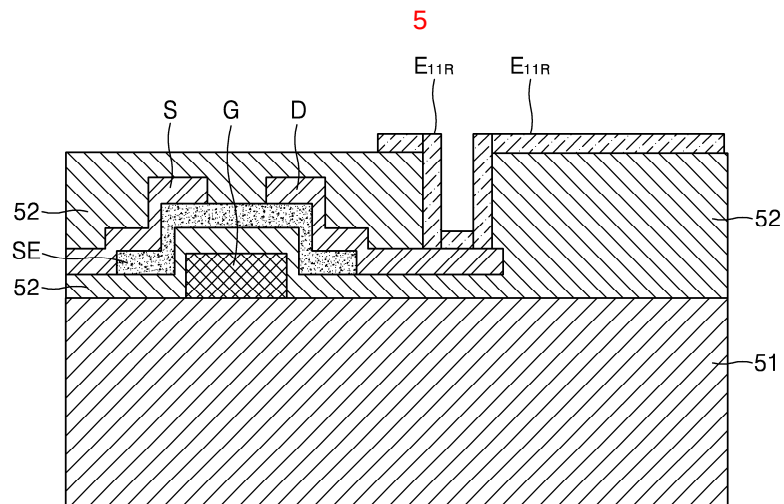
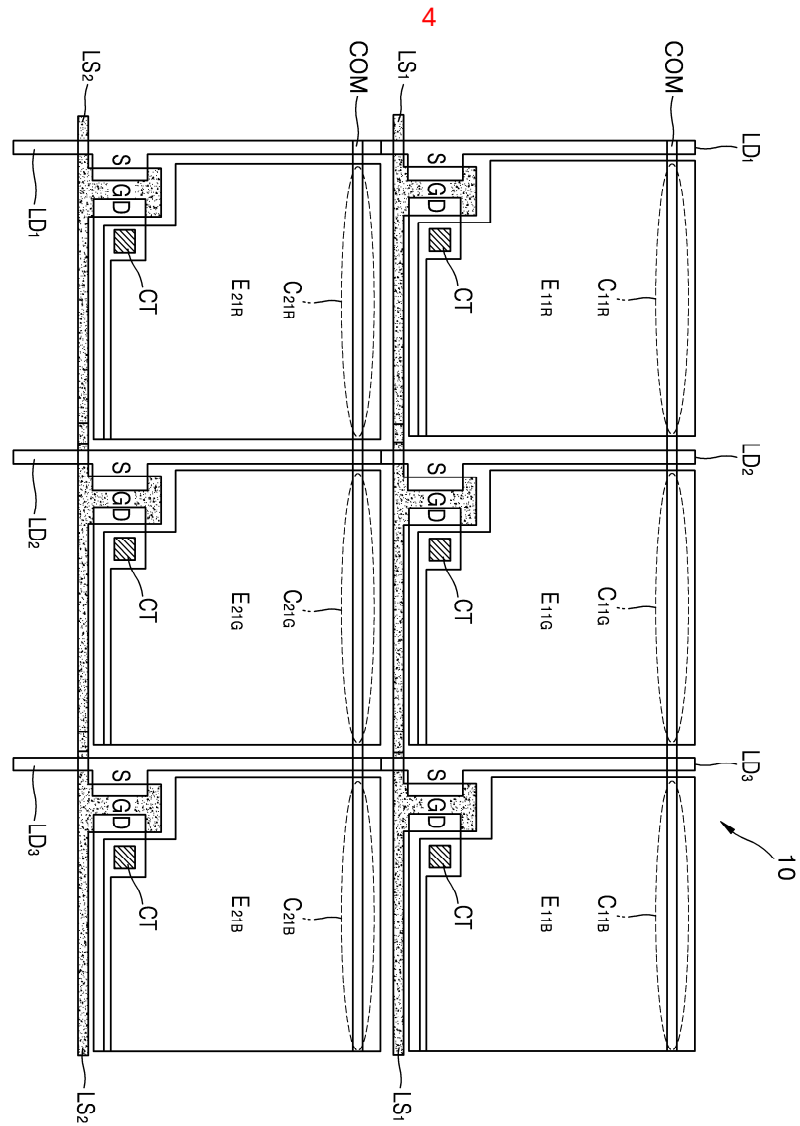
1 ,  
 ,  
 가 ,

3.

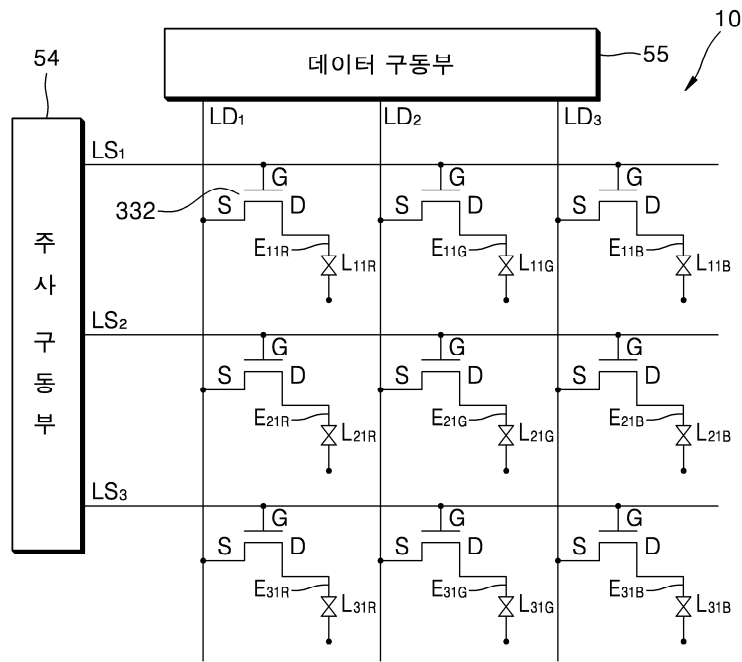
2 ,  
 가



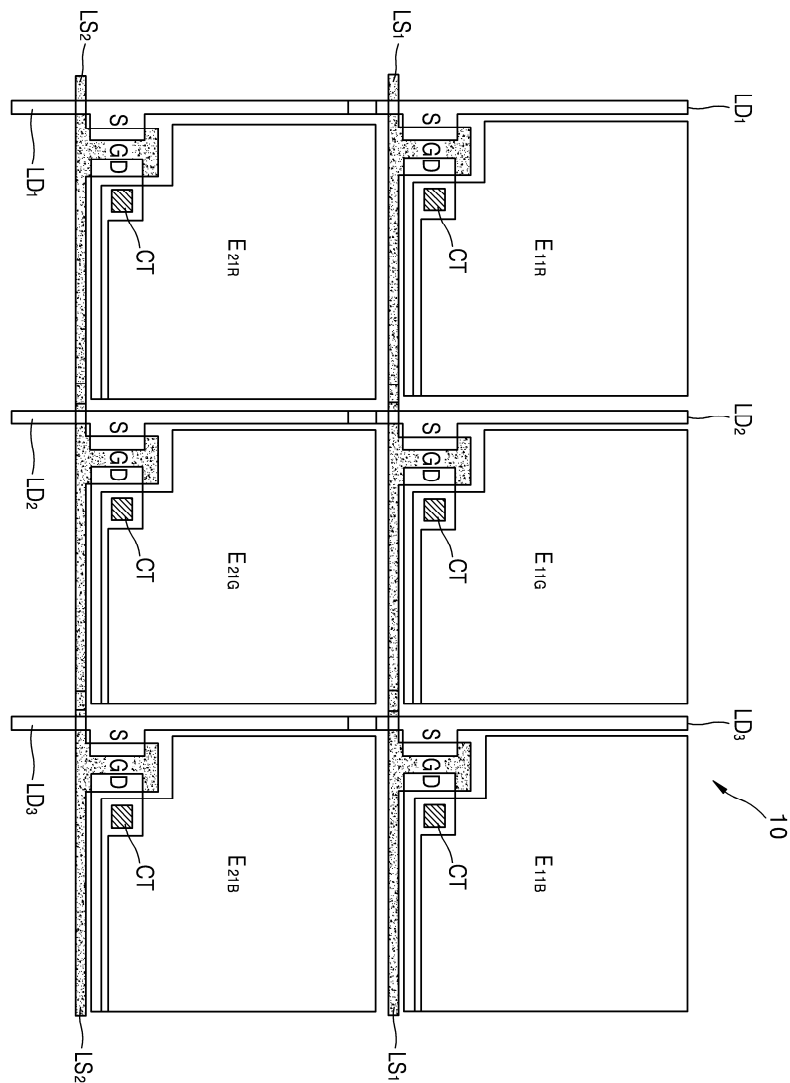




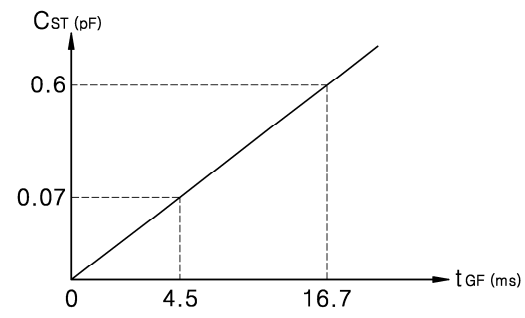
6



7



8



|                |                                                                  |         |            |
|----------------|------------------------------------------------------------------|---------|------------|
| 专利名称(译)        | 没有形成存储电容器的场序液晶显示板                                                |         |            |
| 公开(公告)号        | <a href="#">KR1020050006886A</a>                                 | 公开(公告)日 | 2005-01-17 |
| 申请号            | KR1020030046865                                                  | 申请日     | 2003-07-10 |
| [标]申请(专利权)人(译) | 三星显示有限公司                                                         |         |            |
| 申请(专利权)人(译)    | 三圣母工作显示有限公司                                                      |         |            |
| 当前申请(专利权)人(译)  | 三圣母工作显示有限公司                                                      |         |            |
| [标]发明人         | PARK DONGJIN<br>박동진<br>HEO HAEJIN<br>허해진<br>JUNG TAEHYEOG<br>정태혁 |         |            |
| 发明人            | 박동진<br>허해진<br>정태혁                                                |         |            |
| IPC分类号         | G02F1/133                                                        |         |            |
| 其他公开文献         | KR100943183B1                                                    |         |            |
| 外部链接           | <a href="#">Espacenet</a>                                        |         |            |

#### 摘要(译)

在根据本发明的场序液晶显示板中，每个单元区包括薄膜晶体管和单元电极，薄膜晶体管的漏极或源极连接到单元电极，并且每个数据电极线连接到薄膜晶体管的源极或漏极。这里，没有形成用于保持施加到各个单元电极的电压的存储电容器。 7

