

(19)  
(12)

(KR)  
(A)

(51) 。 Int. Cl.<sup>7</sup>  
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(11)  
(43)

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(21) 10-2002-0021791  
(22) 2002 04 20

(71) .  
20

(72) 7 2151-19

2001 112-103

LG B 615

(74)  
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(54)

7

1

2a 2b .

3a 3b .

4a 4b .

5 1 .  
 6 5 가 .  
 7 2 .  
 8 7 가 .  
 9 3 .  
 10 9 가 .  
 11 4 .

< >  
 2,12,20,30,40 : 4,14,22,32,42 :  
 6,16,24,34,44 : 11,25,31,41 :  
 13,23,33,43 : 18,26,36,46 :

가 (Th  
 in Film Transistor)  
 가 1 가 ,  
 ,  
 ,  
 ,  
 가 1  
 가 ,  
 가 ,  
 2) (GL1 1 GLn) (4) , (2) (2) (DL1 (D  
 Lm) (6) ,  
 1 (DL1 (2) DLm) , n (GL1 GLn) m  
 (TFT)

(TFT) (GL1 GLn) (DL1 DLm)  
 (Clc) 가 가  
 (Clc) 가

GLn (4) (GL1)  
 가 1 (6) 1 (TFT) (GL)  
 (6) (DL1 DLm)

m), ( ) (Line(Column) Inversion System) (Frame Inversion System) (Dot Inversion System)

가 가 2a 2b  
 가 가 3a 3b

4a 4b 가 4a (+) (-)  
 가 가

4b (-) (+)

가 가 가

가

$n(n+1)$  가

$n(n+1)$  가

$2^1$  ,

1 n

2 n

1 , 가 가 가 가 2

1 2

1

2 ,

$n(n+1)$  1

$n(n+1)$  2

1 2

5 11

5 1

5 , (DL1 (12) DLm+1) (GL1 GLn) (16) , (GL1 (14) GLn) (14) (12) (12) (16)

m+1) (12) (DL1 DLm+1) (GL1 GLn) , (GL1 (GL1 GLn) GLn) (DL1 DL (GL1 GLn))

$m+1$  (DL1 DLm+1) (11) .  
 (DL1 (11)가 DLm+1) (DL1 DLm+1) (Column)  
 (DL) .  
 $5$  (GL1, GL3, GL5, ...) (DL1 DLm)  
 $-X$  1 m (DL1 DLm) +X  
 (GL2, GL4, GL6,...)  
 2  $m+1$  (DL2 DLm+2) .  
 (DL1, DL3, ...) (DL2, DL4, ...) .  
 1) (11) (GL1 GLn) (DL1 DLm+ )  
 (13) (14) (GL1 GLn) (TFT) .  
 가 (16) 1 1 (DL1 DLm+1) (GL) .  
 (16) ( ) (16) (DL1 DLm+1)  
 DLm+1) (16) (DL1, DL3, ...) (16) (DL2, DL4, ...) (DL1 DLm+1)  
 (16)가 (DL1 DLm+1)  
 1 m (16)가 5 (DL1 DLm) (12) (DL2 DLm+1) .  
 L3, ...) (16) 1 (GL1) 1 (DL1, D (DL2, DL4, (16) 2  
 ...) (GL2) 1 (+) (-) (DL1)  
 (DL2, DL4, ...) (DL3, DL5, ...) (-) (+) 1 (DL1)  
 (16)가 (DL1 DLm+1) (12) .  
 , 1 1  
 $m+1$  , 1 2 m (DL2 DLm) (DL1) 가 (DL

(11) (GL1, GL3, ...) (DL1) (11) (DLm+1) (DL1)

(11) (DLm+1) (GL2, GL4, ...)

L1 (11) (DL2 DLm) (11) (DLm+1) (G  
GLn) m (DL2 DLm) (DL1) (DLm+1)

(DL1) m (DL2 DLm) 2 m (DL2 DLm)

( )

가 (DL1) (DLm+1) 2 m (DL2 DLm)  
(DL1) (DL1 DLm+1) (DLm+1) 2 m 가 (DL2 DLm) D

Lm) 가 가

(DL1 DLm+1) ( ) 6 (Cpp)가 (Cp  
(DL1) (DLm) / 2 1 1

p) (Cpp) 가 (DLm+1) 1 1

(Cpp)

(DL1) (DLm+1) 2 m (DL2 DLm)  
(Cpp) 가 (DL1) m 가 (DLm+1)

2 (Cpp) (DL2 DLm) 가

가 (DL1) 2

m 가 (DL2 DLm)

1 가 (DL1 DLm+1) 가

7 가 2

7 2

7 (20) (20) (GL1 GLn) (22) (20) (2  
(DL1 DLm+1) (24) (22) (24)

) (26)

(20) (GL1 GLn) (GL1 GLn) (GL1 GLn)  
(DL1 DLm+1) (DL1 DLm+1) n 1 (DL1 DL  
(GL1 GLn) (21)

m+1) m+1 (DL1 DLm+1) 1 (DL1 DLm+1)  
(GL1 GLn) (25) 2 (25) (DL1)

(DLm+1) (25)

1 (21)가 (DL1 DLm+1) (DL1 DLm+1) 2  
(DL1) (Column) (DLm+1) (Column)

(DL1) (DLm+1) (DLm+1) (Column) 2

(21)가 (DL1) (Column) (DLm+1) (25) 1  
(21) 2 (25)가 (DLm+1) (Column) 1

(DL1) (Columnn) (DL1)  
(21) (GL1 GLn) 가

(DLm+1) (Column) (DLm+1) m  
 (21) (GL1 GLn)  
 (DL2 Dm) (21) (GL1 GLn)

2 (DL1 DLm+1) (DL1 DLm+1) 가  
 (DL1 DLm+1) (DL1 DLm+1) (Cp)

p)가 (DL1) / (DL1) (DL1) (DLm+1) / (DLm+1) (DLm+1) (Cpp)가  
 (DL1) / (DLm+1) (DLm+1) (Cpp)가

가 (DL1 DLm+1) (DL1 DLm+1) (Cpp)가  
 (DL1 DLm+1) (DL1 DLm+1) (DL1) D  
 (23) (21) (GL1 GLn) (DL1)

(22) (GL1 GLn)  
 (TFT)

가 (24) 1 1 (DL1 DLm+1) (GL)  
 (16) ( ) (24) (DL1 DLm+1)  
 DLm+1) (24) (DL1, DL3, ...) (24) (DL1 DLm+1)  
 (24) (24)가 (DL1 DLm+1)

2  
 2 / 2

9 3  
 9 3 (30) (GL1 GLn) (32) (30) (3)  
 0) (DL0 DLm+2) (36) (34) (32) (34)

(30) (DL0 DLm+2) (GL1 GLn) (GL1 GLn) (GL1 GLn)  
 m+2) m+3 (DL0 DLm+2) n (DL0 DLm+2) (DL0 DLm+2)  
 (31)가 (DL0 DLm+2)





1.

/

2.

1

3.

1

4.

3

$n(n + 1)$

$n+1$

가

5.

3

$n(n + 1)$

$n+1$

가

6.

1

7.

1

1

2

8.

4

7

1

n

9.

5

7

2

n

10.

/

가 가

1 ,

가 가

2

11.

10

1 2

12.

11

1

2

13.

11

14.

13

$n(n+1)$

1

15.

13

$n(n+1)$

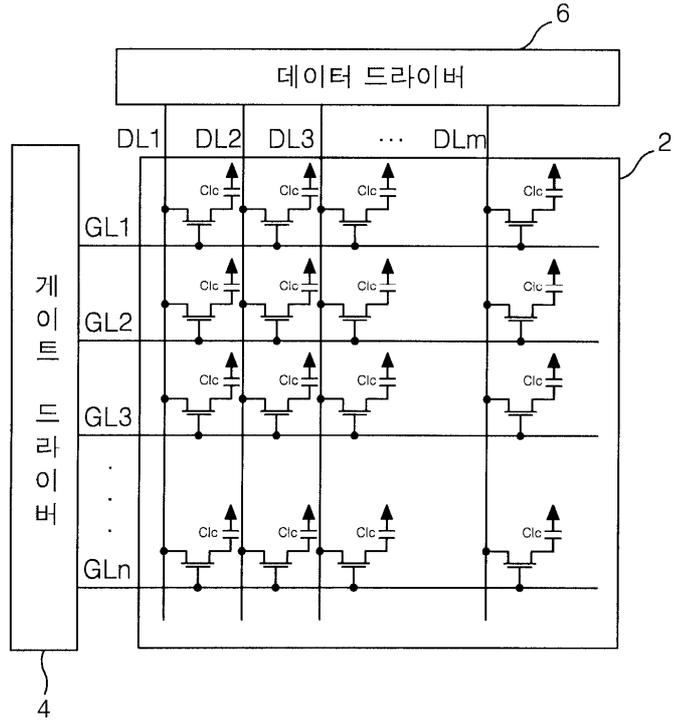
2

16.

10

1 2

1



2a

+	+	+	+	+	+	+	+
-	-	-	-	-	-	-	-
+	+	+	+	+	+	+	+
-	-	-	-	-	-	-	-
+	+	+	+	+	+	+	+
-	-	-	-	-	-	-	-
+	+	+	+	+	+	+	+
-	-	-	-	-	-	-	-

2b

-	-	-	-	-	-	-	-
+	+	+	+	+	+	+	+
-	-	-	-	-	-	-	-
+	+	+	+	+	+	+	+
-	-	-	-	-	-	-	-
+	+	+	+	+	+	+	+
-	-	-	-	-	-	-	-
+	+	+	+	+	+	+	+

3a

+	-	+	-	+	-	+	-
+	-	+	-	+	-	+	-
+	-	+	-	+	-	+	-
+	-	+	-	+	-	+	-
+	-	+	-	+	-	+	-
+	-	+	-	+	-	+	-
+	-	+	-	+	-	+	-
+	-	+	-	+	-	+	-

3b

-	+	-	+	-	+	-	+
-	+	-	+	-	+	-	+
-	+	-	+	-	+	-	+
-	+	-	+	-	+	-	+
-	+	-	+	-	+	-	+
-	+	-	+	-	+	-	+
-	+	-	+	-	+	-	+
-	+	-	+	-	+	-	+

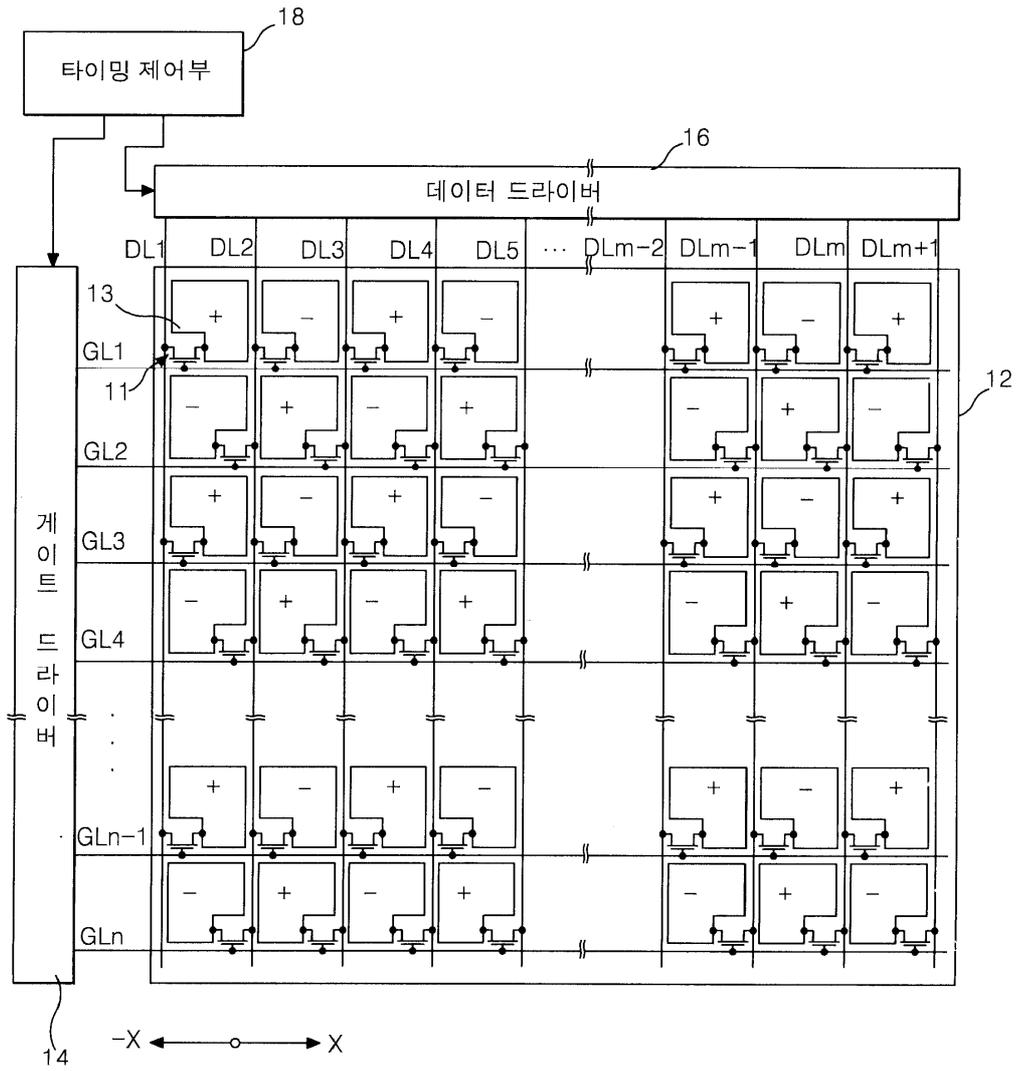
4a

+	-	+	-	+	-	+	-
-	+	-	+	-	+	-	+
+	-	+	-	+	-	+	-
-	+	-	+	-	+	-	+
+	-	+	-	+	-	+	-
-	+	-	+	-	+	-	+
+	-	+	-	+	-	+	-
-	+	-	+	-	+	-	+

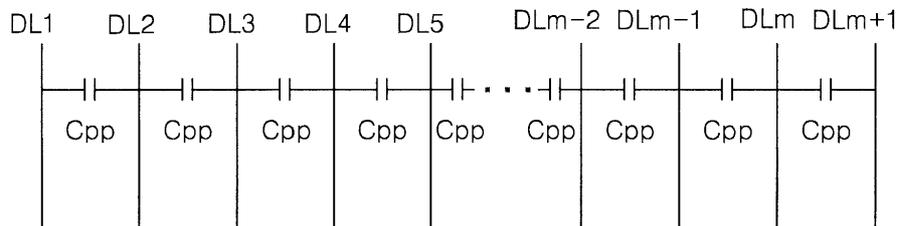
4b

-	+	-	+	-	+	-	+
+	-	+	-	+	-	+	-
-	+	-	+	-	+	-	+
+	-	+	-	+	-	+	-
-	+	-	+	-	+	-	+
+	-	+	-	+	-	+	-
-	+	-	+	-	+	-	+
+	-	+	-	+	-	+	-

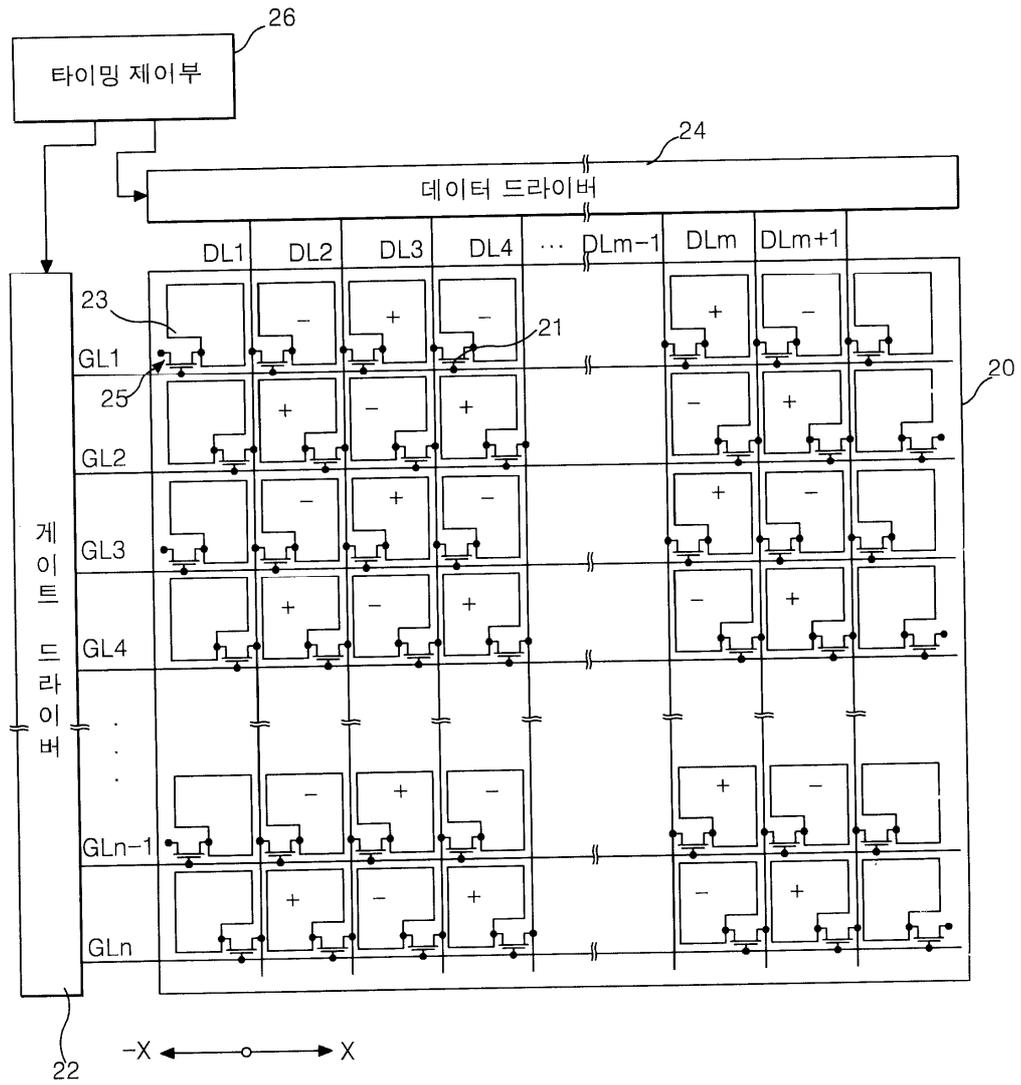
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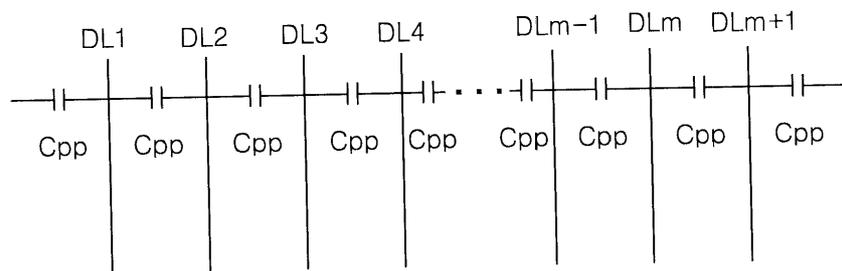
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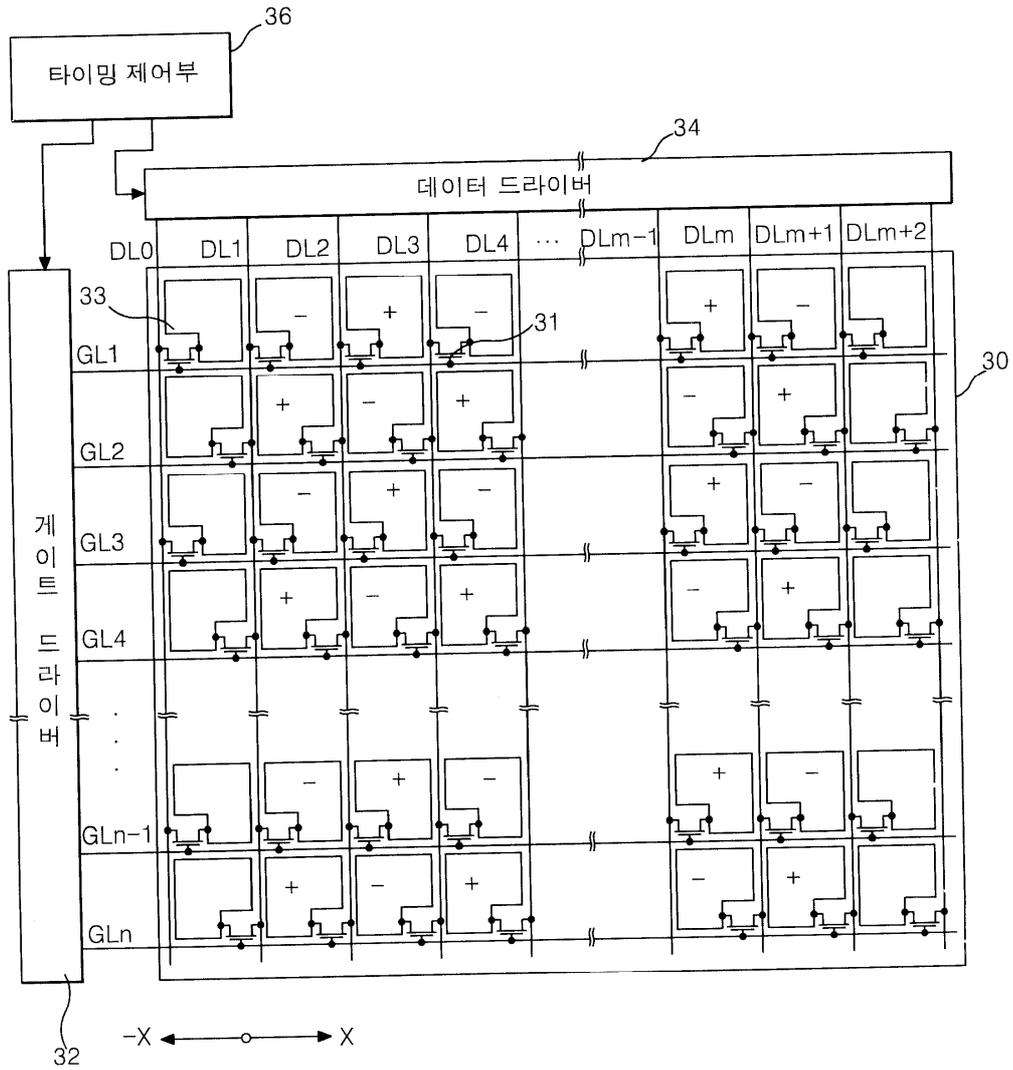
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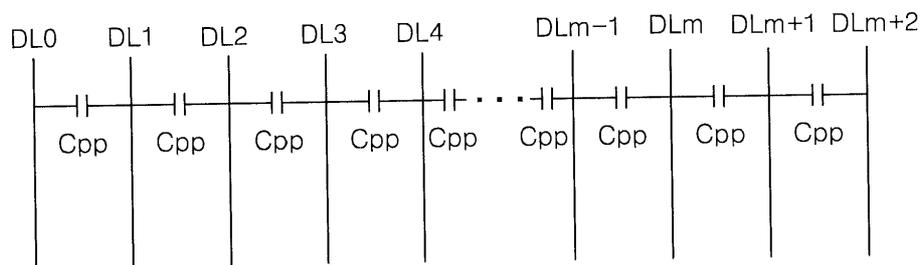
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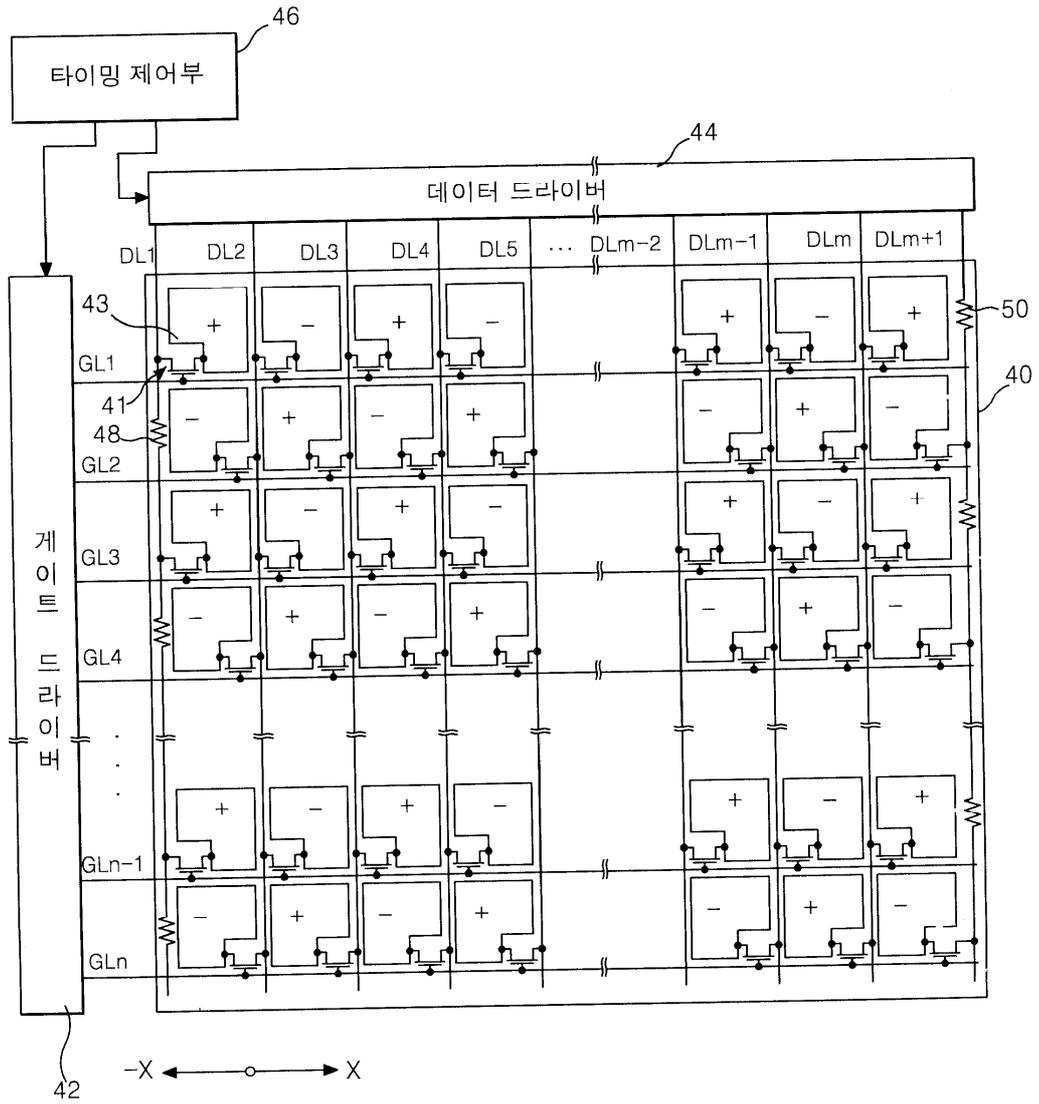


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专利名称(译)	液晶显示器		
公开(公告)号	<a href="#">KR1020030083309A</a>	公开(公告)日	2003-10-30
申请号	KR1020020021791	申请日	2002-04-20
[标]申请(专利权)人(译)	乐金显示有限公司		
申请(专利权)人(译)	LG显示器有限公司		
当前申请(专利权)人(译)	LG显示器有限公司		
[标]发明人	SONG SANGMOO 송상무 CHOI SEUNGKYU 최승규 PARK JUNHO 박준호		
发明人	송상무 최승규 박준호		
IPC分类号	G02F1/1362 G02F1/1345 G02F1/133 G02F1/1335		
CPC分类号	G02F1/133512 G02F1/1345 G02F1/136286		
代理人(译)	金勇 年轻的小公园		
其他公开文献	KR100884992B1		
外部链接	<a href="#">Espacenet</a>		

摘要(译)

液晶显示装置技术领域本发明涉及一种液晶显示装置，该液晶显示装置能够使用通过列反转方法驱动的数据驱动器以点反转方式驱动液晶面板，并且在所有液晶单元中显示均匀的亮度。本发明的液晶显示器包括形成在液晶面板的左端和右端并形成在交叉点处的虚设液晶单元。 7

