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(43)2003 - 0022070
2003 03 15(21) 10 - 2002 - 0053854
(22) 2002 09 06

(30) 0121524.3 2001 09 06 (GB)

(71) 가 가
가 22 22(72) 28 22
44 124

(74)

:

(54)

(35) 1 1 2 , 1
M1, 6, 7(36) 1 M1, 6, 7 , 2 (36) M2, 6, 37 가
M1, 6, 7 ,

6

, , , , LCD

1

2 1 4

3 2

4 1

5 1

6 1

7 6

8 2

9 8

10 3

11 10

12 4

13 5

14a 14b 6 7

15 8

16 7

17

< >

1 :

4 :

5 :

30 :

31 :

(graphical feature)

가

1 N (row) M (column) (, 2) (1)
 (3) (4) (5) (3)
 (4, 5) (6) (7) (2)
 (4) (6)
 (5) (7)
 (2)

2 (1) 4
 (TFT, 10) TFT(10) TFT
 TFT(10) (7) TFT(10) (6) TFT
 (10) (11) Cs 1 (12) 2 2
 2

(13) (11) (14) EL 가 DC
 (Vcom) (11, 14) 가
 1 2 (11) C
 s Vcom - 4V +4V
 가

Vcom +1.75V - 1.75V

50%

(1) (2) , (4)

(5) TFT(10) , 가 (6) TFT(10)

Cs , TFT(10)가

4 1 (3) , V

SYNC, HSYNC, DATA . N (7) 4 G1 - GN (1)

VSNC

5 1 3 DCK,

HSYNC, VSNC (3) (21)

(21) Y, Cr, Cb RGB 가 (21)

, RGB

(SRAM, 32) -

(22)

3 (24) , (tint) (picture) (24) 가

(24)

(3) / (DAC,

25) (26)

3) , , 가 , 가 (2 1

(23) (((3)) - 1

(23) (3)

-

, 가

, -

1, 1 1 2 2 2 ;

1 1 ; 2 2 2 2 가

2

1 2 1 2 .

2 2 .

2 , 2 가 2 2

1 1 .

1 2 3 가 .

1 1 1

2 2

2 2 . 2 2 1 2 가

1 1 1 1 3 3 1 .

3 3 .

2 2 2 가 . ,

2 , 2 2 가 .

1 2 2 , 2 2 . ,

1 4 .

가 - .

, 가 .

2 2 2 .

1 2 , 2 , 1 1 , 1 2

가 . 2 1 2 1 1 2

2 .

2 2 (alphanumeric) .

(alphanumeric)

6 (1) (30) (31)

가 . " NETWORK" , 2 가

- , 가 .

(1) 1 2 . 1 1 (30)

(4, 5) , (30)

2 . 2 가 . (30)

2 가 .

가 , " " 가 , , 3 가 , (30) 7 " " 가 , , , , (4) / (5) , , 가 (1) , " " , , 6 32 , 1 35 " " , 8 25 , 2 36 " " , (35) 2 , 가 (7) 1 가 (6) (11) (TFT) M

(36) TFT M1 , (36) 가 M1 - 가 2 M1 2 TFT M2 , AND (37) IC (37) IE 1 IS 2

가 , 가 , (36) 2 (35) M2가 , (36) , (6) (11) , (7) 1 가 , 가 (high) , 9 가 , 가 IS

13
, 2
2

8
(36b),
(35)

1 2
, 1 2
(36c)
(36c)

36a

1 (35) 1 (36a) 8 (35, 36) (40)
1 가 , 2 (36b)가 1 (36a)
, M2 M3 가 , M3
2 (41)

1 2 (36c) 가 1 M3
M2 가 2 (41)

가
, 1 (40) 9
(36a, 36c)가 , 2 (36
b) , 2 1 (36b, 36
c)가 , (36a, 36b, 36c)가

14a 8 (35)가 (36)
M2 " " M2 , 가 M1
, 14a M2
(35) (36)
(35) (36)
가 M2 가
M1 , (35) M1 M2가

14b (35) M2 가 (39) ,
" " 14a , (35)
M2 .
가 가

14a 14b (GL) 가
, 가 14a 14b 44
, GL
가

8 14b , 15 (36)가
(36)가

(38) , M1 M2가 (36) (11)
 , (36) , 10
 , Vicon
 ,

16 가 -
 16 7
 0 9
 (1)
 가

17 가 (50)

“ ”
 “ ”

“ ”

가 , 가 EL

가 , 가

(57)

1.

1 1 2 2 ;

1 1 ;

2 2 2
2

.

2.

1 , 1 2 1 2
.

3.

1 , 2 2 .

4.

1 , 2 2 , 2
2 가 2 2 가
1 .

5.

1 , 1 2 3 가
.

6.

5 ,
.

7.

1 , 1
1 1 .

8.

1 , 2
2 2 .

9.

8 , 2
1 1 .

10.

9 , 2 1 2 가
.

11.

7
가 3 , 1 1 .

12.

11 , 3 1 .

13.

11 , 3 .

14.

8 , 2 2 2
 , 2 2 .

15.

8 , 2 가 .

16.

8 , 2 2 2 .

17.

8 , 1 , 2
2 4 .

18.

7 , .

19.

18 , .

20.

7 , 가 - .

21.

20 , - .

22.

20 , .

23.

7 , 가 .

24.

1 , 2 2 2 .

25.

1 , (direct view) .

26.

1 , 1 2 .

27.

26 , 1 , 1 2 , 2 ,
1 2 .

28.

27 , 2 2 1 1
가 .

29.

6 , 1 1 2
2 .

30.

1 , 2 2 (alphanumeri
c) .

31.

3 , 2 2 (alphanume
ric) .

32.

1 , 2 2
.

33.

32 ,
.

34.

1 , 2
.

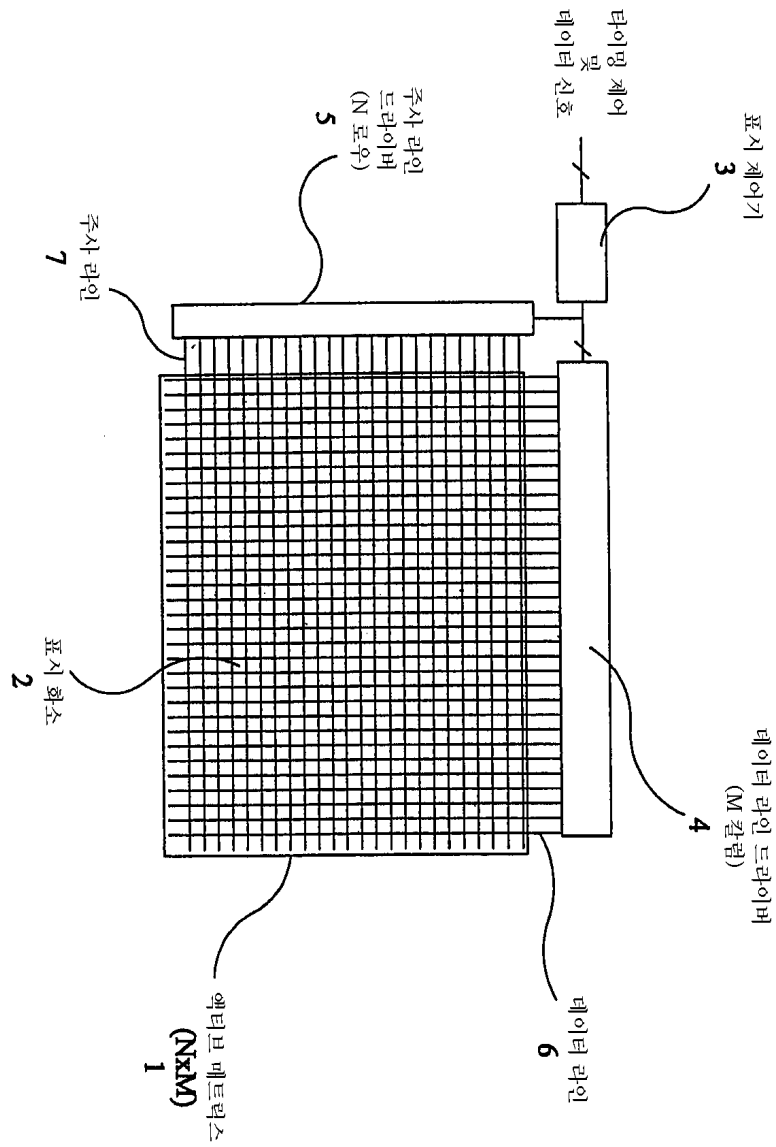
35.

34 , 2 .

36.

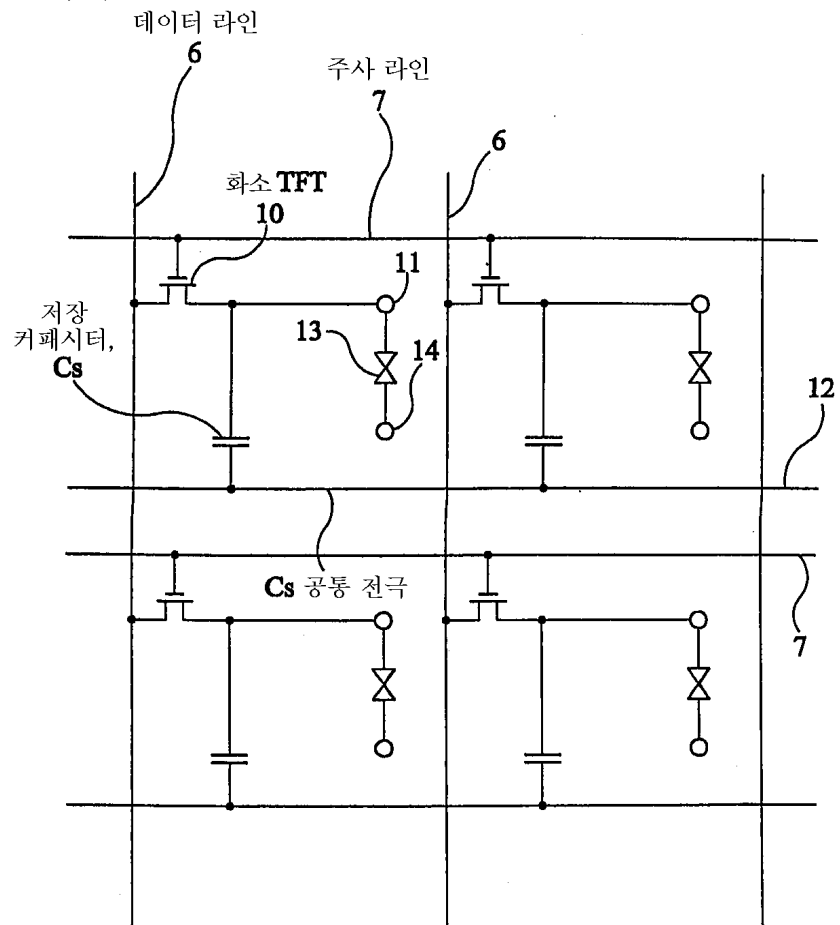
34 ,
.

(종래 기술)



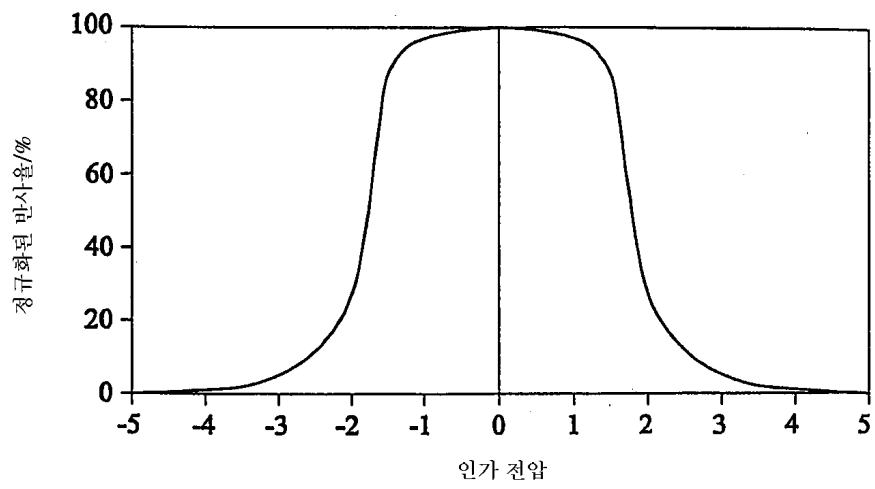
2

(종래 기술)



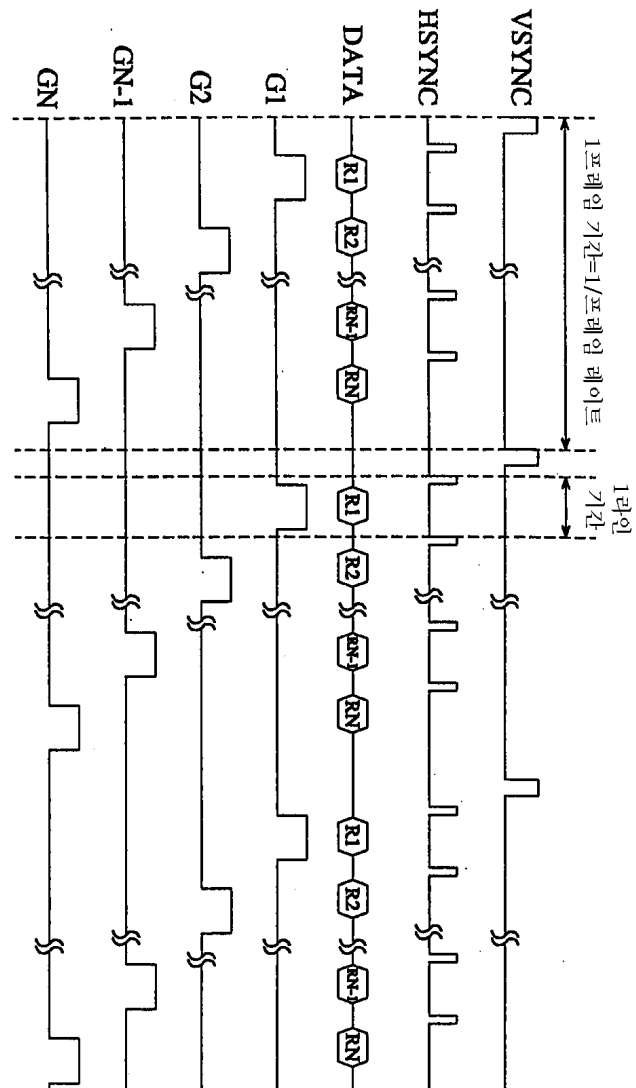
3

(종래 기술)



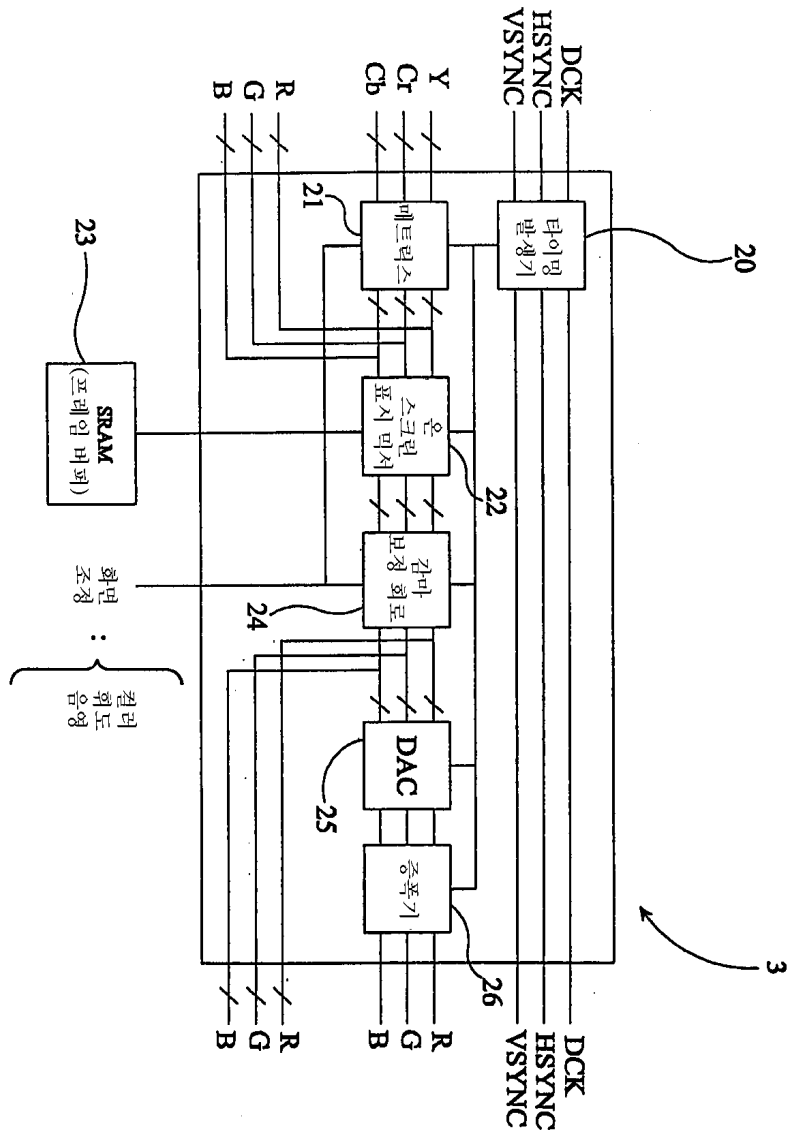
4

(종래 기술)

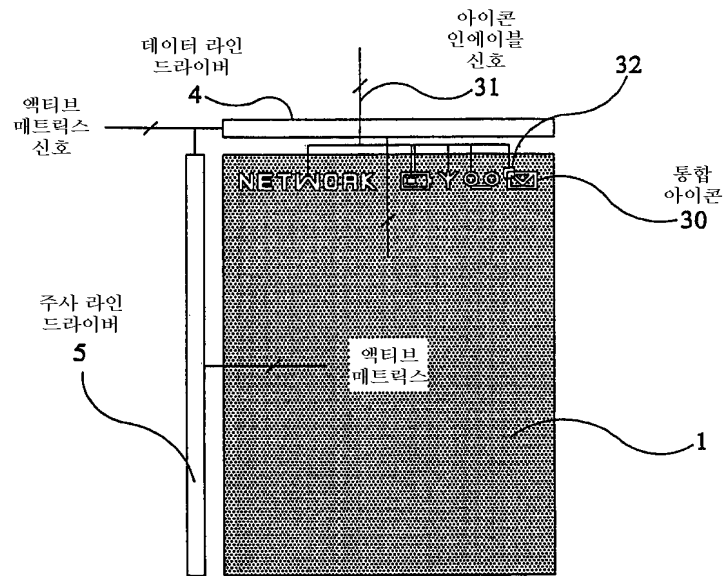


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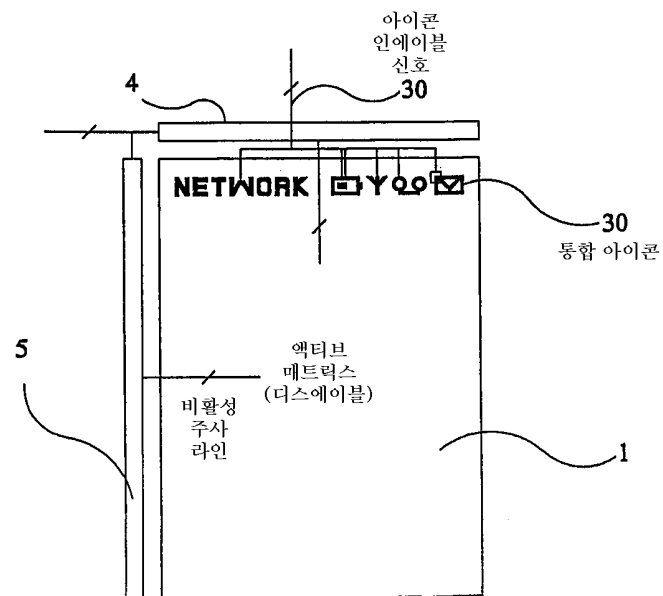
(종래 기술)



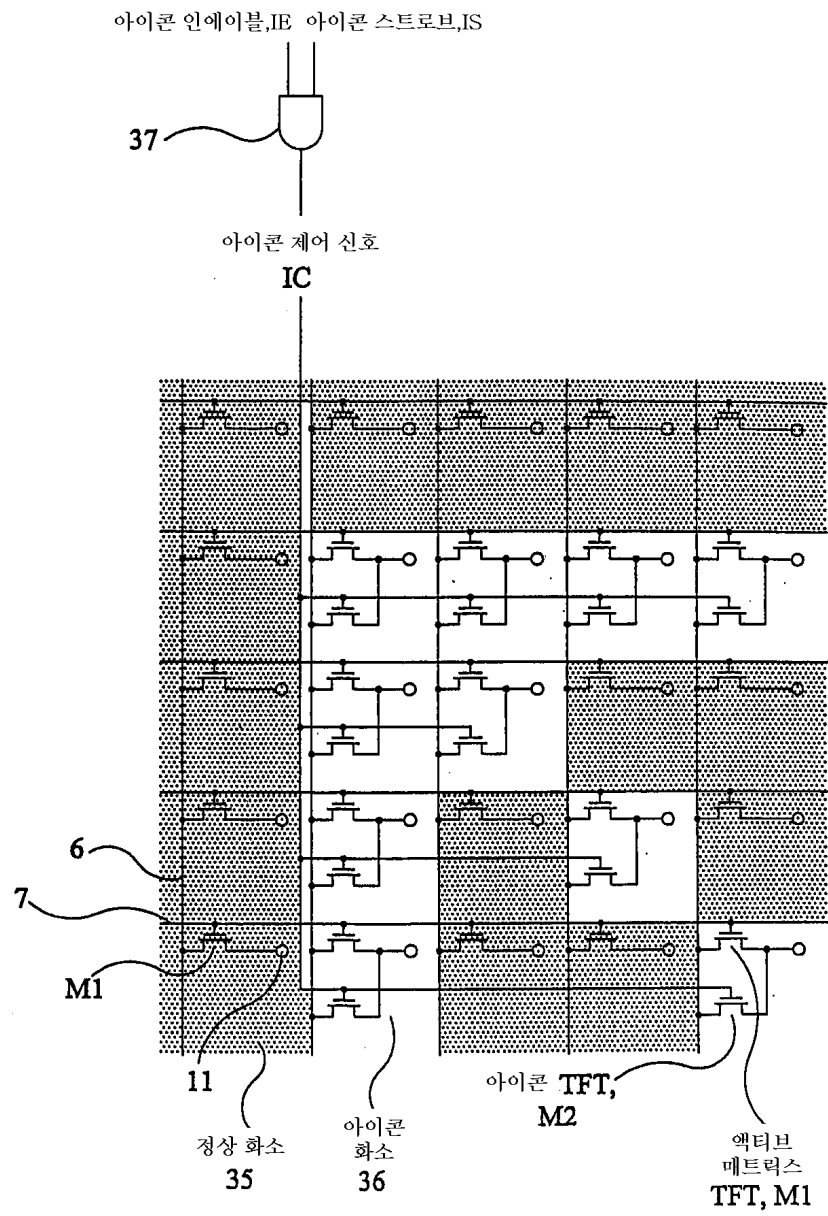
6



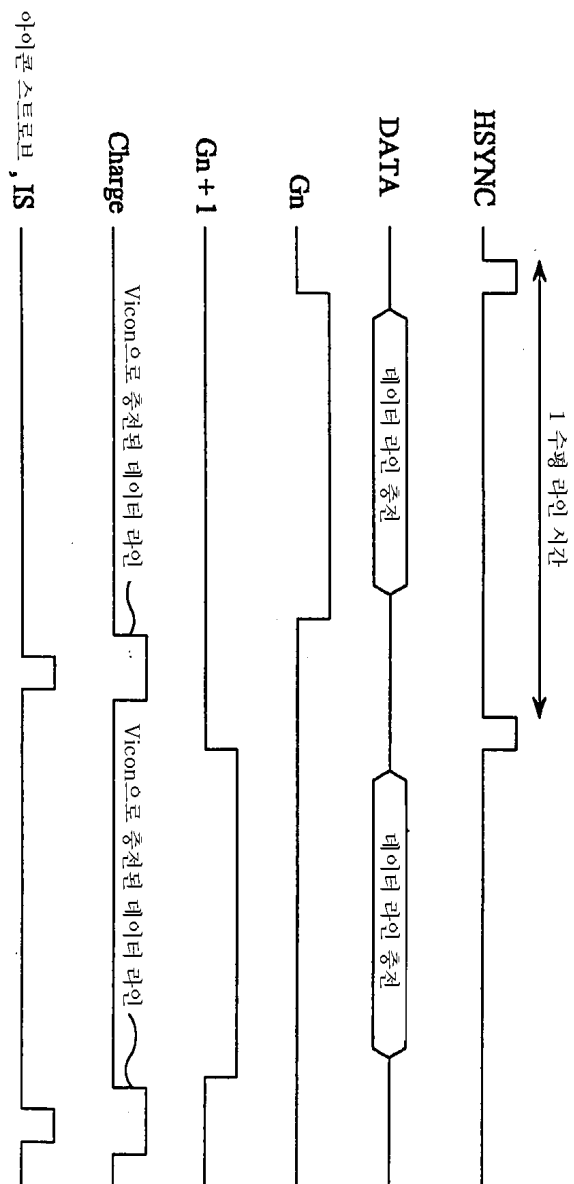
7



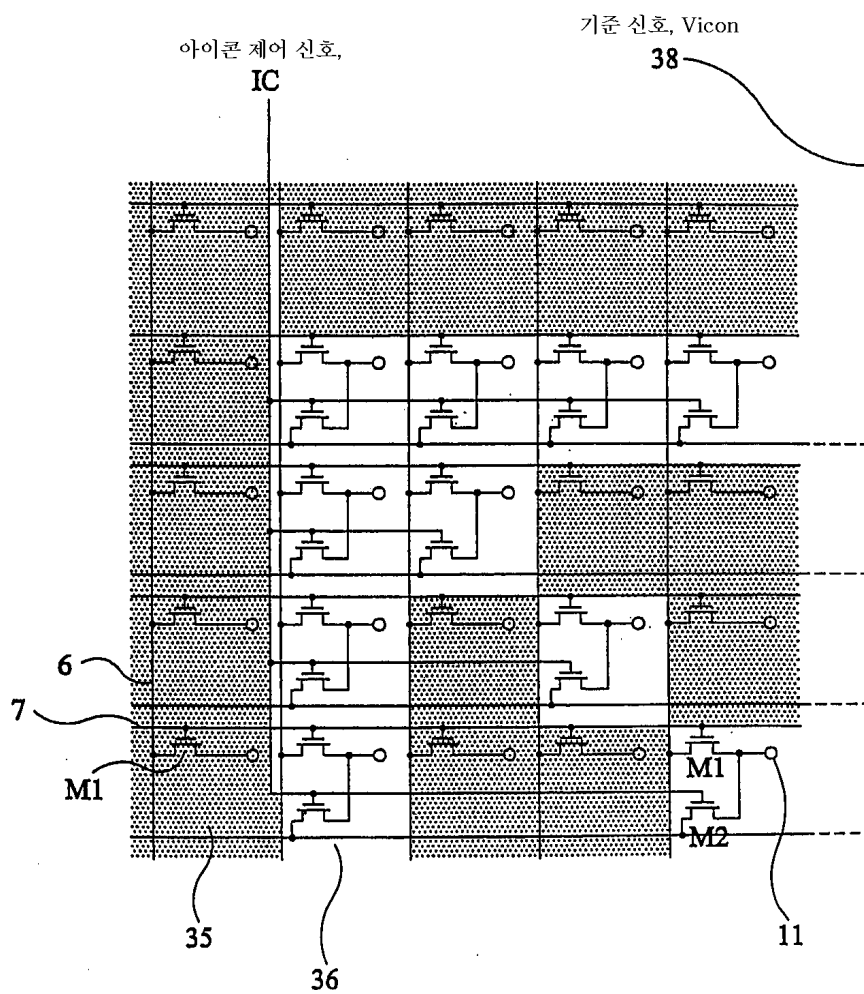
8



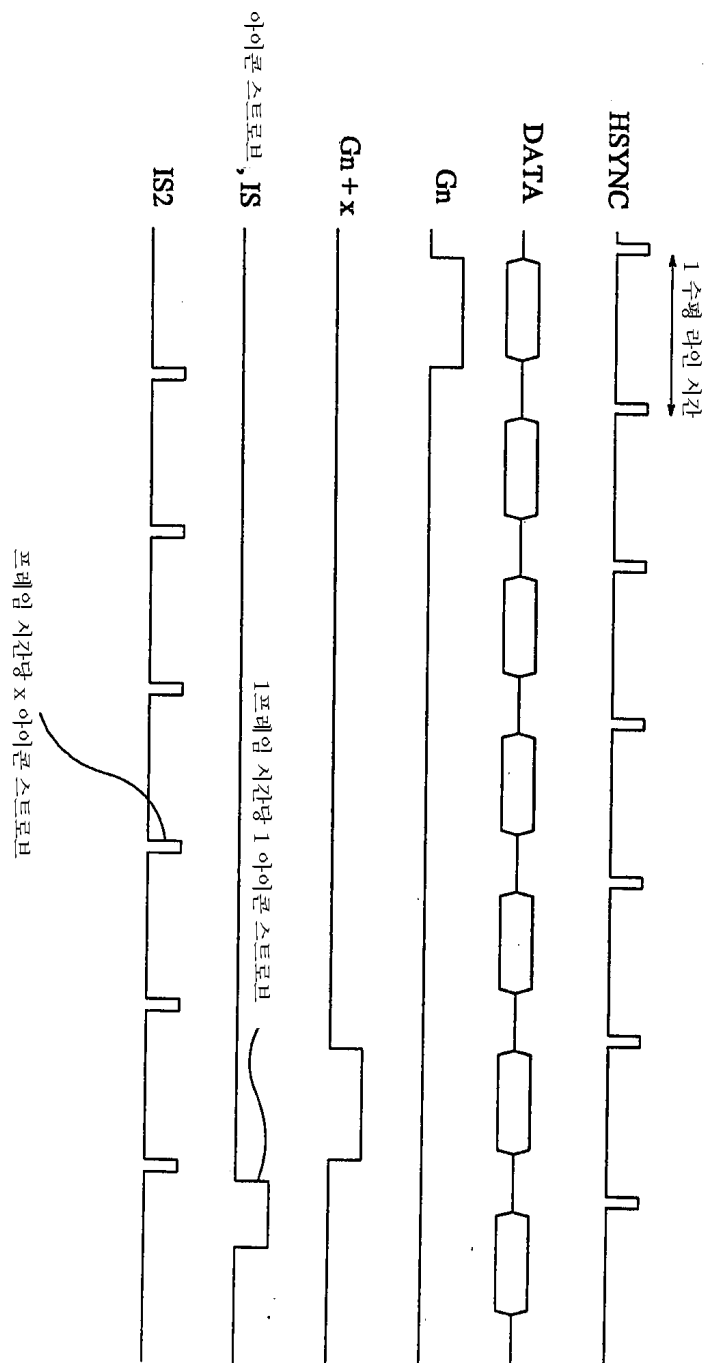
6



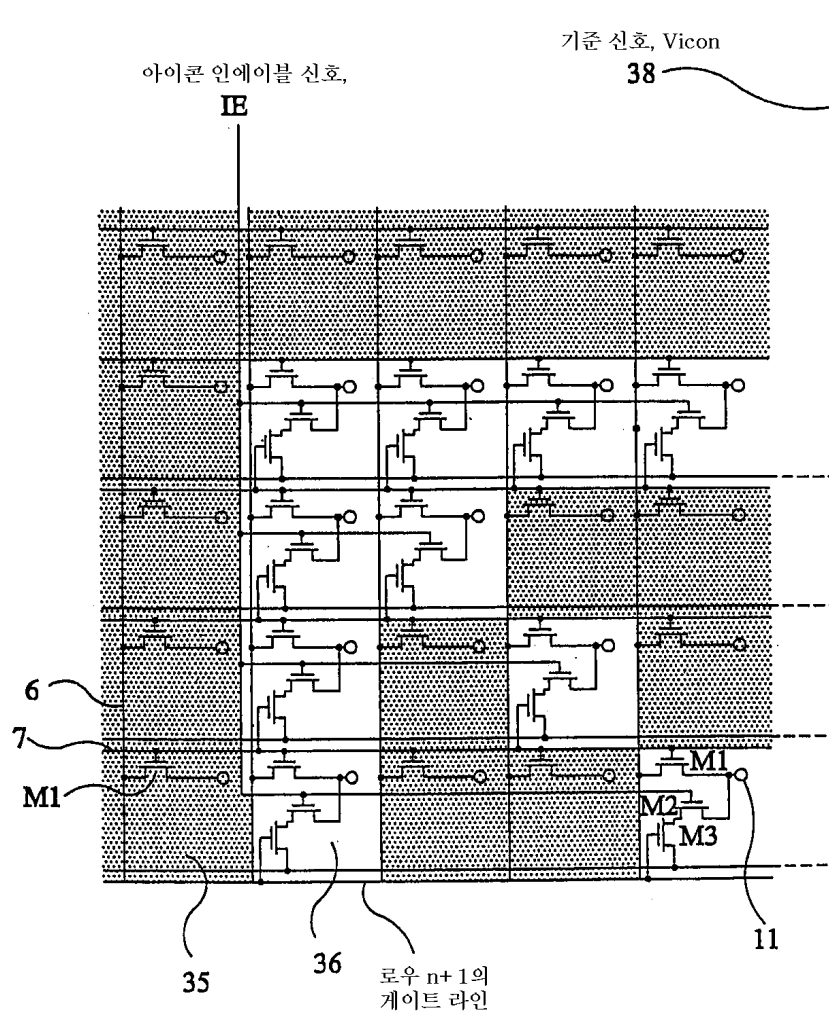
10



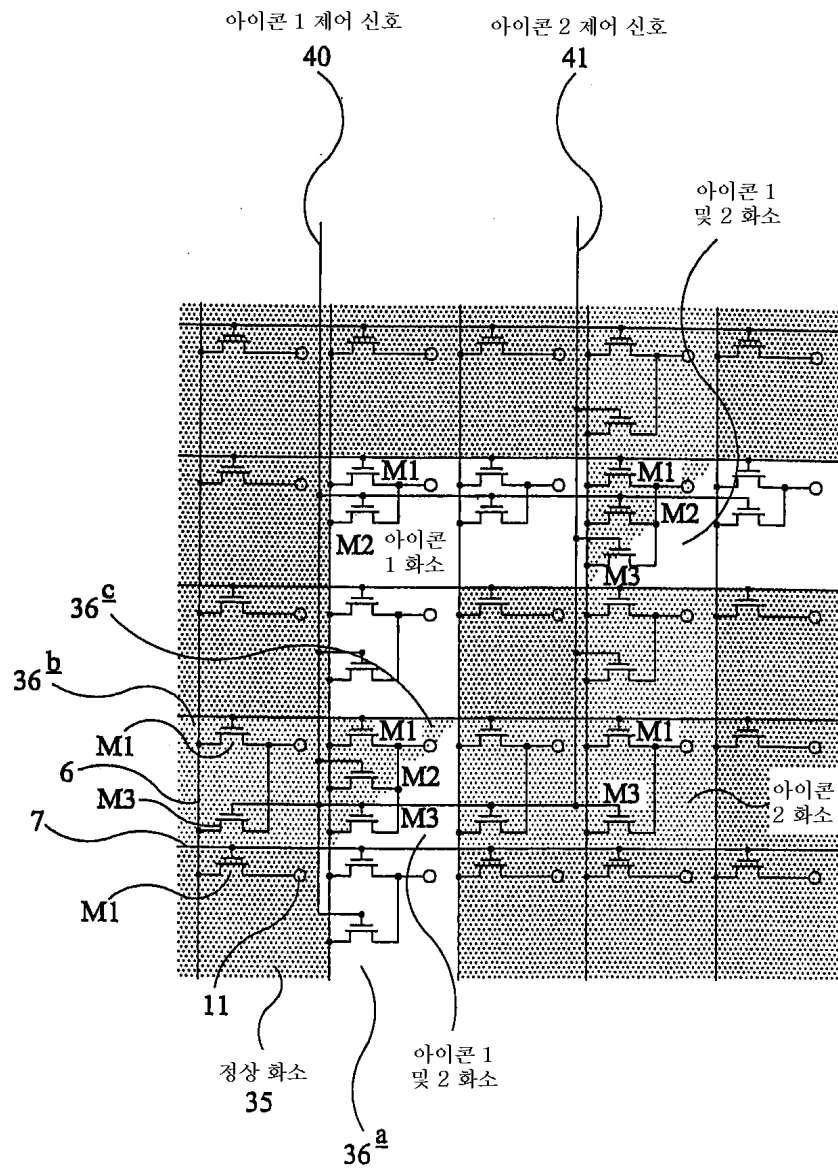
11



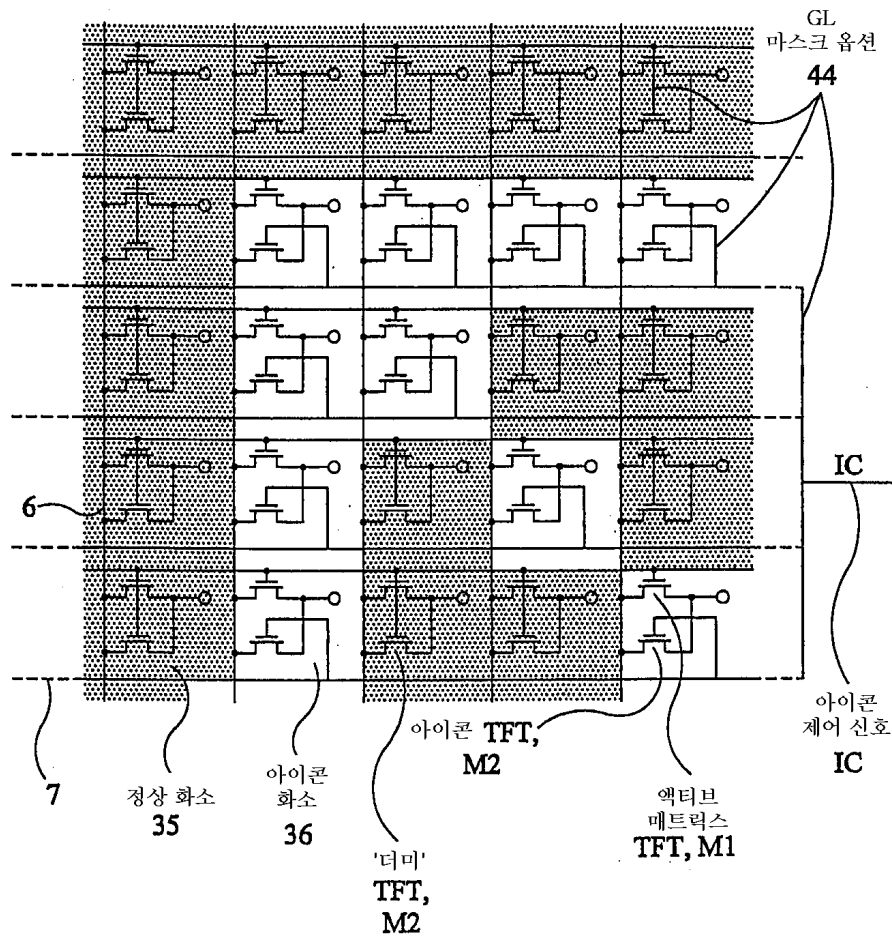
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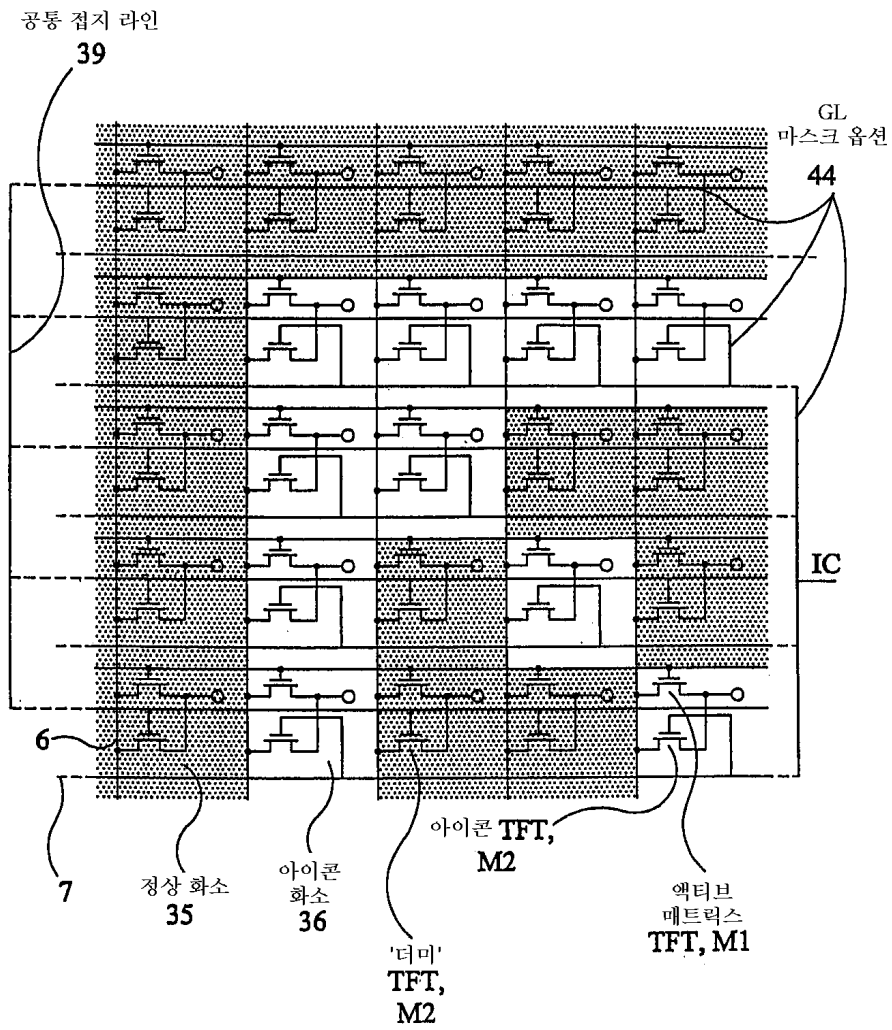
13



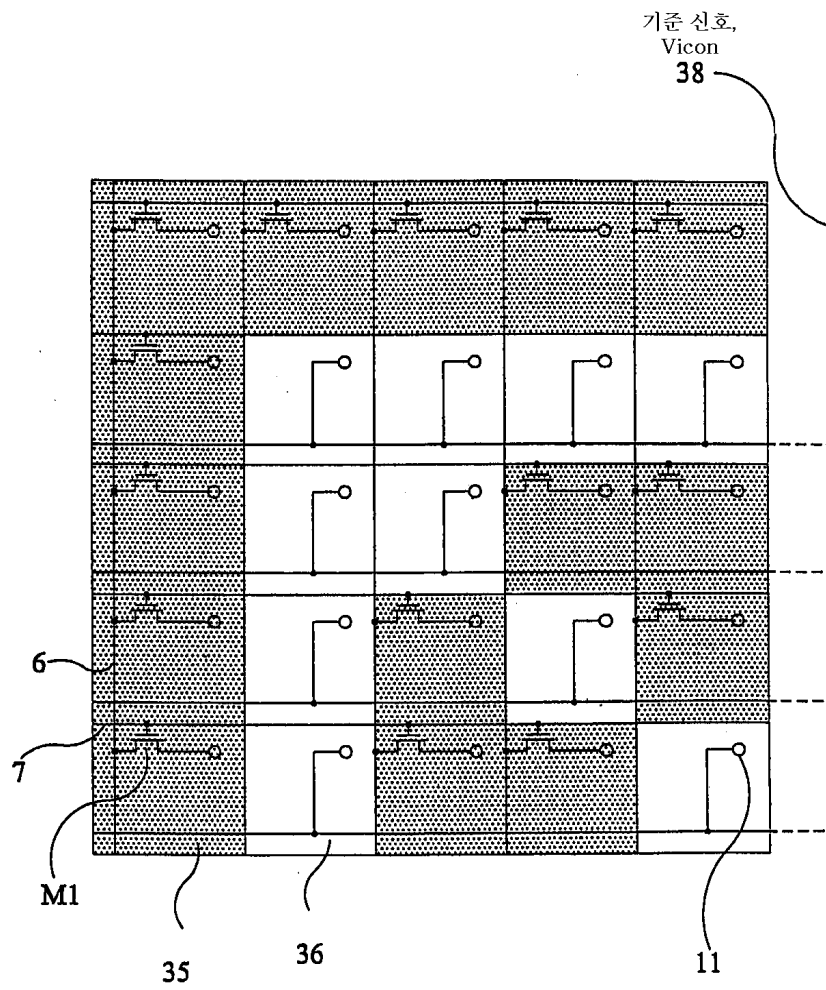
14a



14b

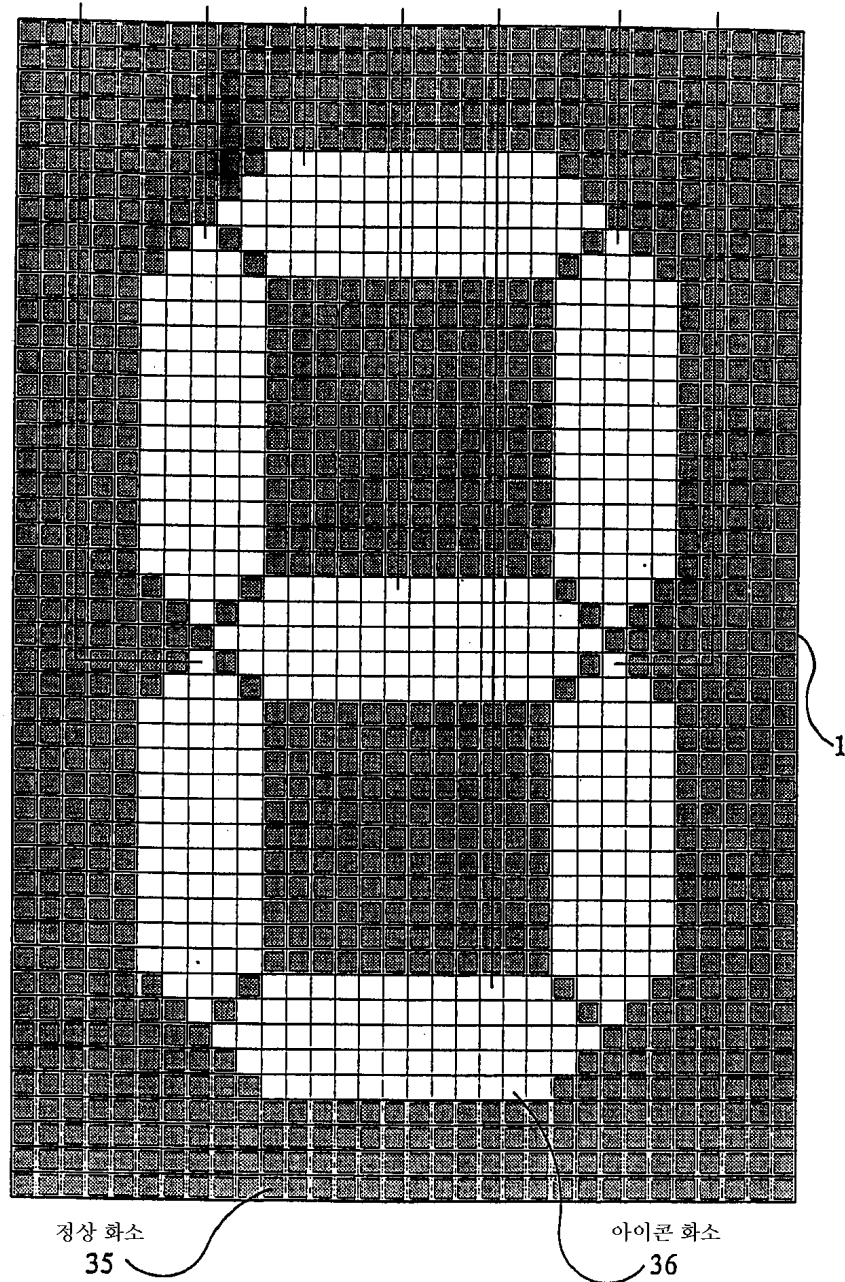


15



16

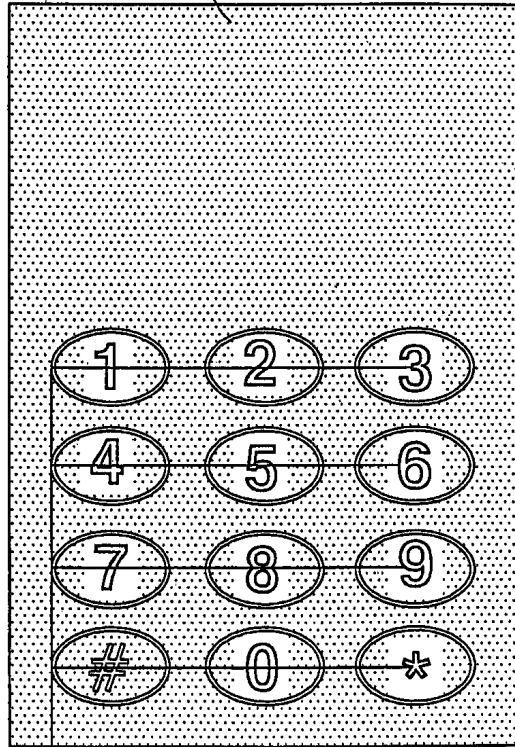
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17

액티브 매트릭스

1



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키보드 표시
온/오프

专利名称(译)	有源矩阵显示		
公开(公告)号	KR1020030022070A	公开(公告)日	2003-03-15
申请号	KR1020020053854	申请日	2002-09-06
[标]申请(专利权)人(译)	夏普株式会社		
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发明人	캐언스그래햄 브라운로우마이클		
IPC分类号	G09G3/36 G02F1/133 G02F1/1343 G09G3/20 G09G3/00 G02F1/1362		
CPC分类号	G09G3/36 G09G3/3648		
代理人(译)	CHANG, SOO KIL		
优先权	2001021524 2001-09-06 GB		
其他公开文献	KR100482716B1		
外部链接	Espacenet		

摘要(译)

包括其中有源矩阵显示被分成第一和第二组的像素的有源矩阵阵列。根据传统有源矩阵的模式，用第一刷新单元M1,6和7刷新第一组的像素(35)。在用于指示诸如重叠在有源矩阵显示图像上的图标之类的图形类型的像素(36)中，每个图标的图标像素包括第二刷新单元M2,6和37，其被切换到与之类似的状态。最大黑色或最大白色。此外，图标像素(36)包括第一刷新单元M1,6和7.任意数据被指示或者在被选择为可以是用于任意图像数据的图标图像作为活动的一部分的情况下。重叠矩阵。有源矩阵显示，像素，刷新，图标，LCD。

