

(19)
(12)(KR)
(A)(51) 。 Int. Cl. ⁷
G02F 1/1343(11)
(43)2001 - 0095132
2001 11 03(21) 10 - 2001 - 0016751
(22) 2001 03 30(30) 2000 - 95113 2000 03 30 (JP)
2001 - 6789 2001 01 15 (JP)(71) 가 가
가
가 22 22(72) 가
1 30 - 3 - 102
2613 - 1
1 23 - 12

(74)

:

(54)

1 2

1 2

1

1a, 1b 1c 1 ,

2a, 2b 2c 2 ,

3a 3b 3 , .

4 4 .

5 5 .

6 6 .

7 7 .

8a 8b .

9a 9b , 8a 8b
가 , .

10 .

11a 11b , 가
 , .

12a 12b , 가
 , .

13a 13b , 가
 , .

, , 가

, TV 가 .

가 (IC) 가 nF

94 - 149174 (flicker)

8a 8b 94 - 149174 1 8b
 (1), (2) (3) (1) (2)
 (4,5) (4) (5)
 (3) (5) (4) (5)
 (6) (4) (1)
 (TFT) (7) (1)
 (8) (2) (3) (9) (7)
 (1)가 (8) (7)
 (1) (9)

(6) (8) (8)
 (3) (3) (8) (2)
 (3) (6) (6) (6)
 (6) (8) (1)
 (2) (3) (6) 1
 2 2 가

9a 9b 94 - 149174 (6) (7)
 8a 8b
 9a (8) (S1,S2,S3), (7)
 (G1,G2,G3), (6) (COM1,COM2)
 (8) (S1,S3) (S2) (6) (COM1,
 COM2) (6) 1

8a 9a , (3) (7) (8)

10 , 94 - 149174 4 , (1) (8) 가 (2)

(8) (3) (6) , 8a

11a , 10 (2) (8) 가 (8)

(3) (6) 9a 가 (7)

11b

10 11a , 11a , (7)

(3) , (8) (8) (2)

(1) (7)

(8)

94 - 149174 , ,

(3) , 12a

(6) , (7) , 1 2 (3) , 1 1H

가 가 . 1

2 , 2 (COM1,COM2) , 12b

1

(3) , ,

(" ITO")

(7) , (7) 가

(3) 가 ITO (3) , (

12b 가 (pull - in) ,

3) 가 (horizontal crosstalk) 가 (9) , (2)

(3)

(3) 가 가 (3)

(pattern) 가

13a 13b , ,

13a , (6) (8) , 1 2

1

13b (6) , 1
94 - 149174
가 가 (IC)
ITO가 가
가

ITO
가 가
ITO

가

가

, ITO

(stripe)

가

가

가

가

가

가

가

가

(pitch)

, 2

가

(10)

(12)

(11)

(12)

$$\begin{array}{cc} 1a, 1b & 1c \\ , & (11) \end{array}$$

1a ,
1b 1c , 1a

B - B'

C - C'
(12)

가

10

(12)

3) (12) (1) (12)
가 Ta (tantalum) (photolithography)
(dry etching) (wet etching)
(14) (14) 1a 가
1a (14) 1a
1 (trunk line) (15) (14)
1a TFT 2 (16)

(14) (17)
n+ (Si)
n+
n+ (gap) (17)
(contact) (14)
2 (16)

(18) (19) (19)
(16) (16) (14)
(20) (18) (19) (18)
2 (r
edundancy) (19) (underground)
(18) ITO (19)
(18) (18)
(19)

TFT (19) (18) n+
(20) (21) (21)

(11)
, ITO 1a
(12)
(22) (12)
(10) (12) (14)
(11) (23) (12)
(22)

(10) (11) (12)

, 1a, (11)
 (22), (12), (12)
 (14), (11), (12), (cabon
 paste) (24)가 (12)
 (20), (12),
 , (11), , 가
 , (10)가 .

(10), ITO (22)
 , ITO 1 (15) 2 (16)
 (22), 1 (25) 2 (26),
 , 1 (25)
 2 (26) ITO (22)
 가 , 가 (12)
 (14), (22),

, (12) (14) (20),
 (20) (11) 1 (25) 2 (26) (24)
 , (22) (14)
 1 (15) 2 (16), (12) (28,29)
 , (14) (22),
 2 (26), (14) (11) (22) 1 (25)
 , (12)
 가 , (11) 가
 (10) 가 .

2a, 2b 2c 2
 , 1a, 1b 1c (10)
 . 2a (32)
 (31), 2b 2c ,
 2a B - B' C - C' , 1a ,
 (22) (32) (34)
 , 1 (35) 2 (36), (44)가
 (22), 1 (35) 2 (36) 1 (45) 2 (46)
 46) (32) 2 (36), (44),
 , 2 (36),
 1a, 1b 1c (24), 1 2 (45,46)
 , (44)가 (44)

3a 3b 3 3a B - B' 3a (31)
 (32) , 3b 3a 2a, 2b 2c (30)
 (31) 1 (45) 2 (46) , (32) 1
 (35) 2 (36) , (22) , 1 (45) 2 (46)
 (32) (34) (54)
 1 (45) 2 (46)
 (34)
 1 2 (24,44)
 가 , 가
 (54) STN (passive)
 99 - 326934

4 , 4 (60)
 (22) , 가 (61)
 (65) 가 (62) (64) (62) (64)
 (62) , (64) (66,67) (68,69)
 (22) (64) (61)
 (22) (61)
 가 가 (61)
 (61) 가 1a
 3b ,
 3a 1 (45) 2 (46) (22) 가 (54)
 (32) , 가

5 , 5 (70)
 (61) , 4 (60)
 (72) , (74) (76,77) (74) (78)
 (78,79) (79) (margin)
 가
 가

6 , 6 (80)
 (80) , 5 (70)
 (74) , (76,77)
 6 , 5 (76,77)
 (76,77)

(65) (74) (76,77) (81)
(22) 가 , 5 (76,77) (74)

6 (74) (76,77) (65)
, 6 가
(65)
(65)가

7 7 (90)
5 6 (90) , (22) 가 (74) (91,92) 가
(74) (74) (76,77) (93,94) 가
(65) , 2
(91,92) , 2
(81) 가

7 (74) 2
가 , DC
, DC
(74)
(overshoot)
(74)
7

가 , DC
(n MOS , -10V) 가 6
가

가

(57)

1.

2.

3.

2

4.

,

5.

6.

7.

8.

9.

10.

11.

12.

13.

1 , , .

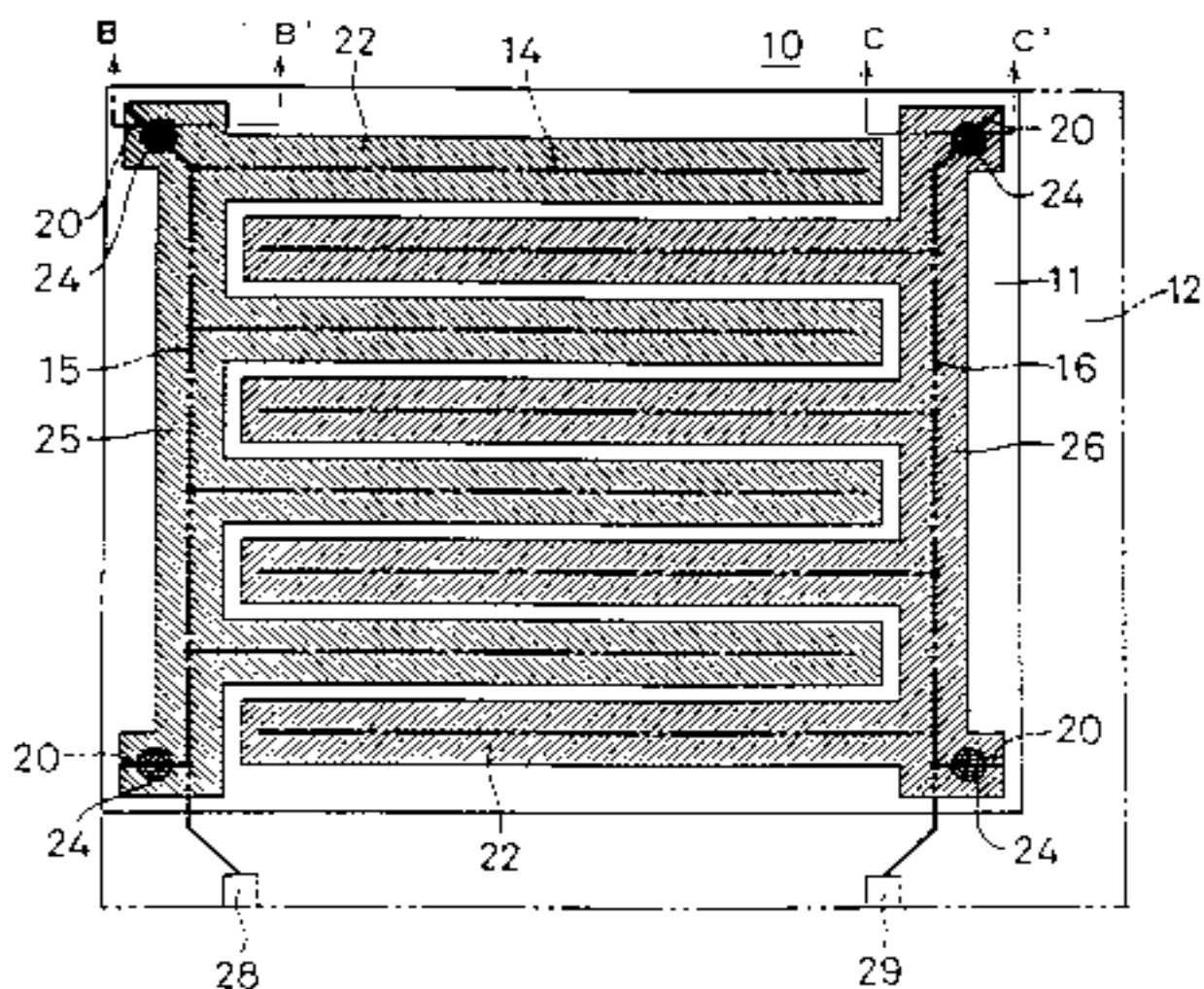
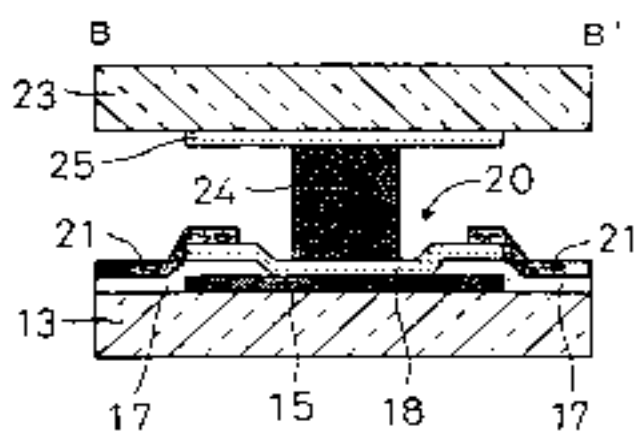
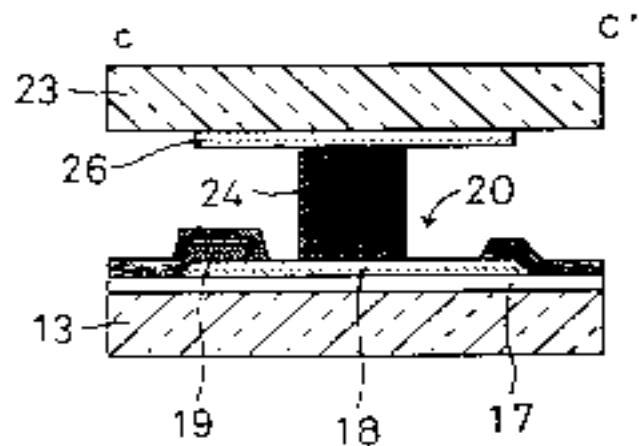
14.

2 , , .

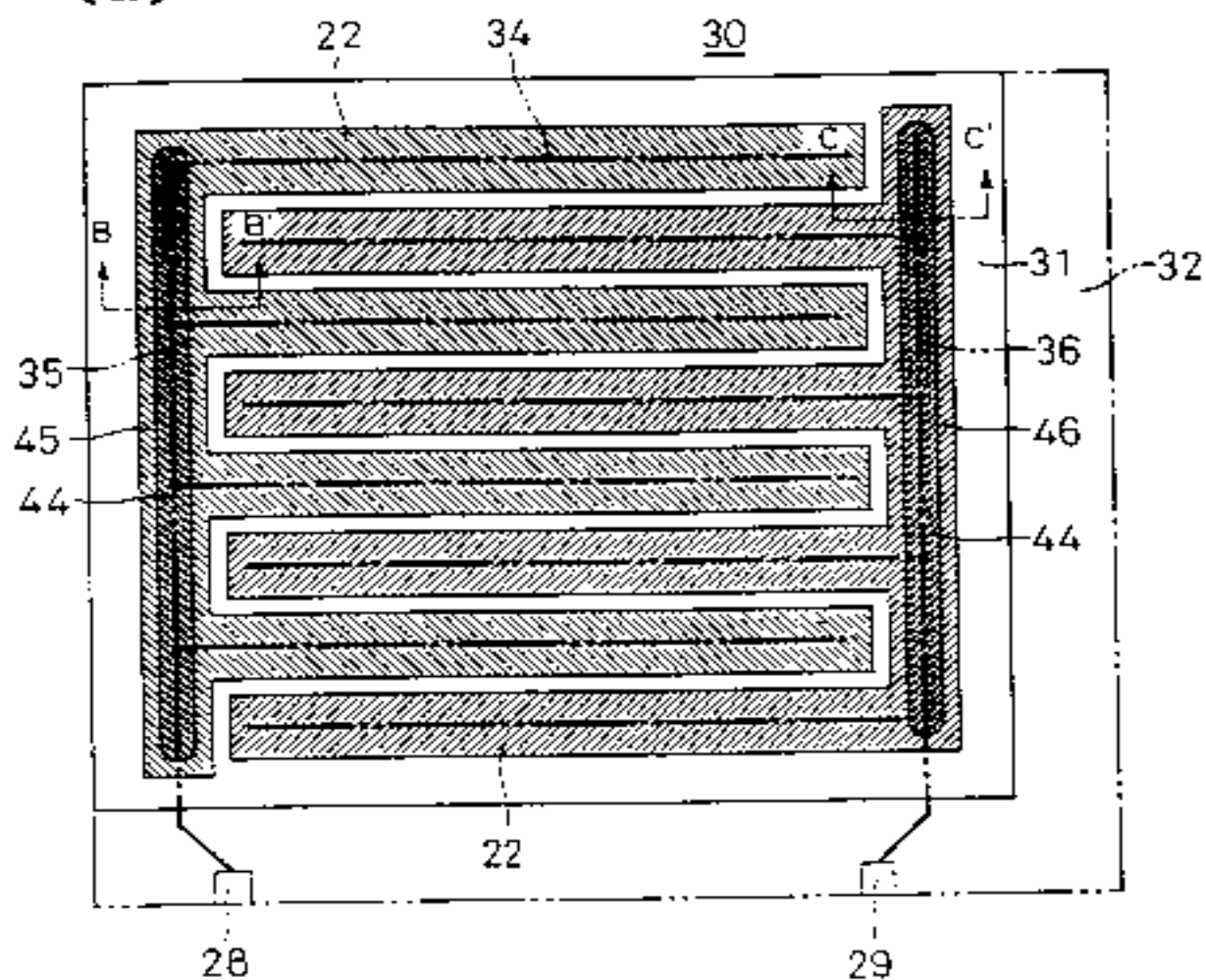
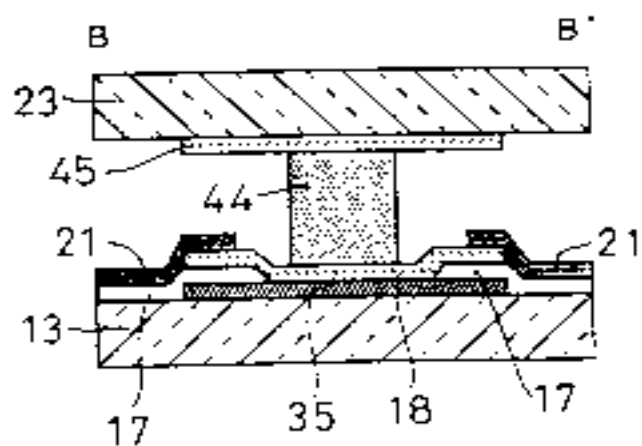
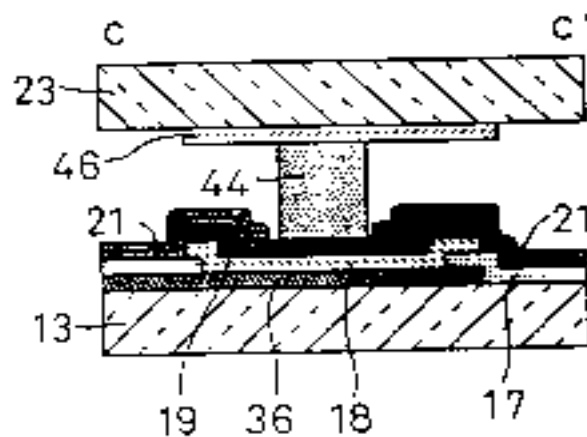
15.

4 , , .

1

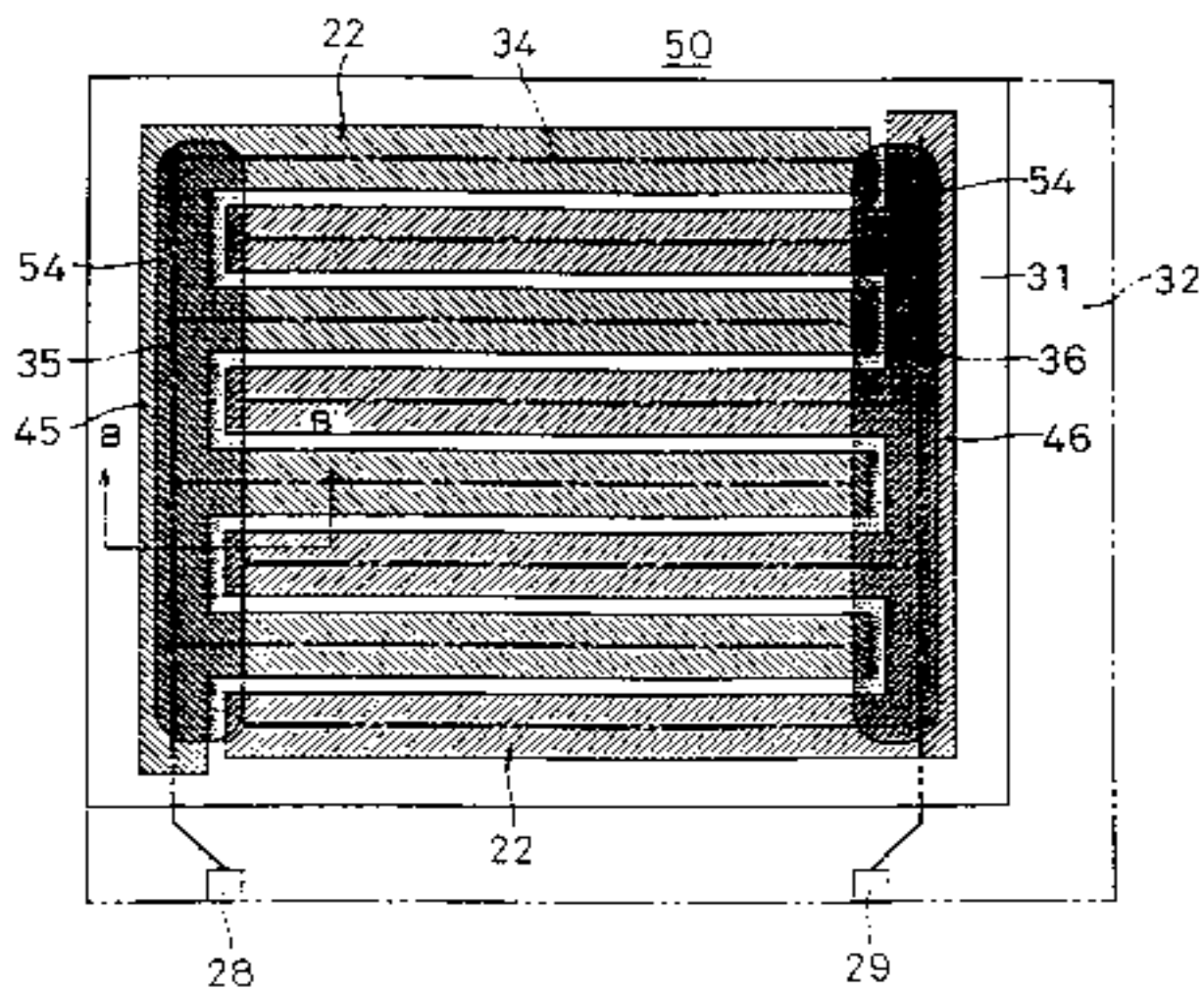
(a)**(b)****(c)**

2

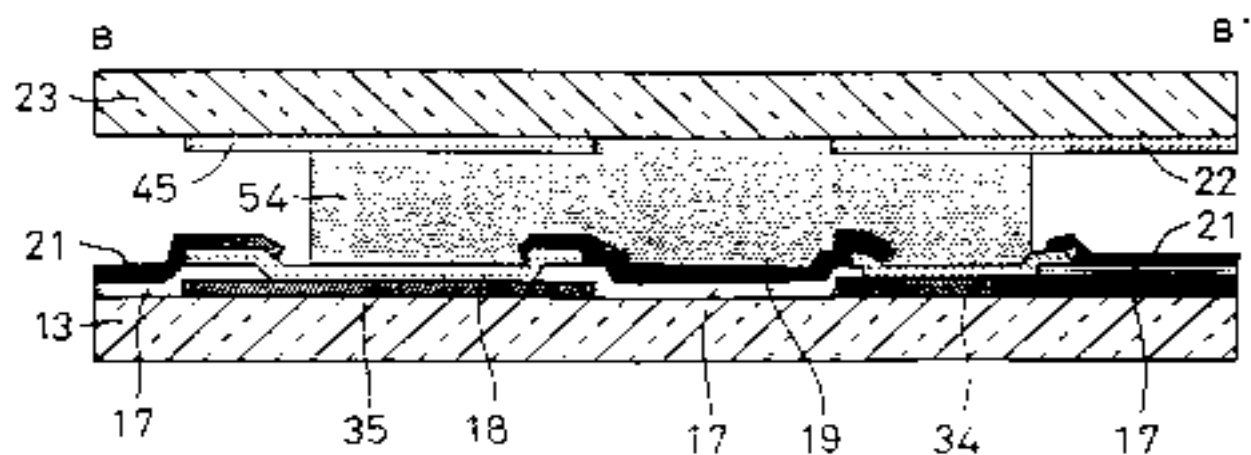
(a)**(b)****(c)**

3

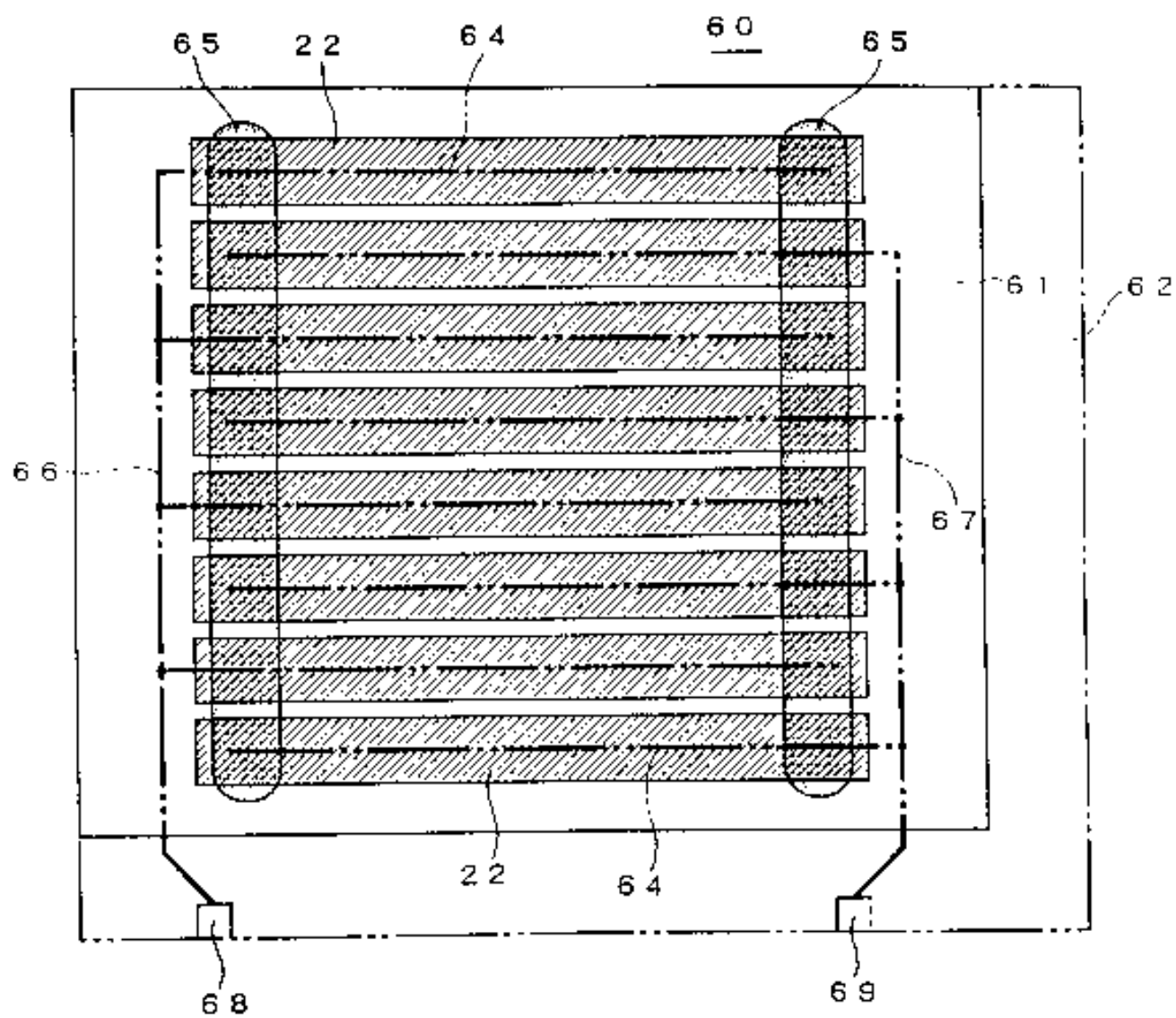
(a)



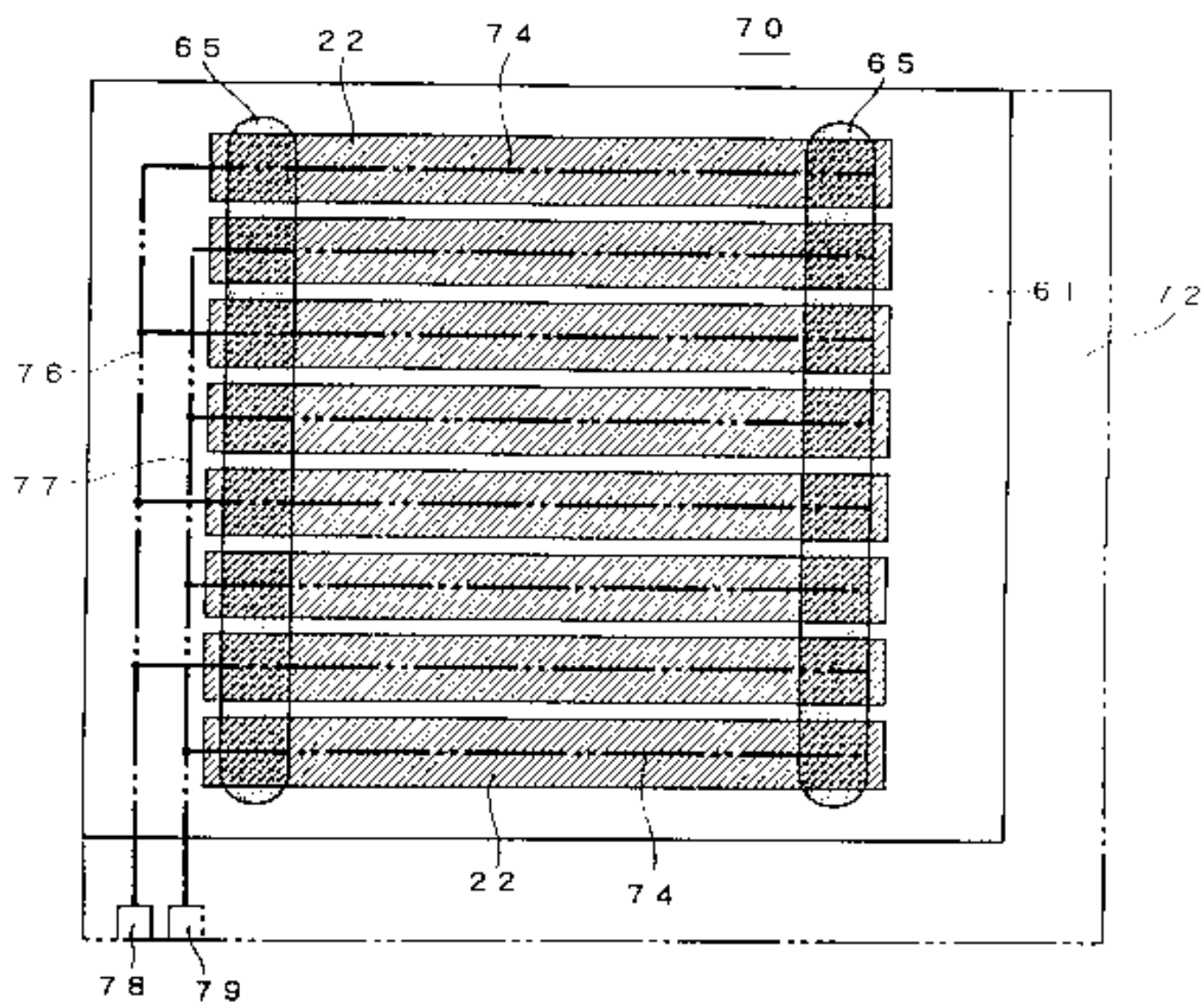
(b)



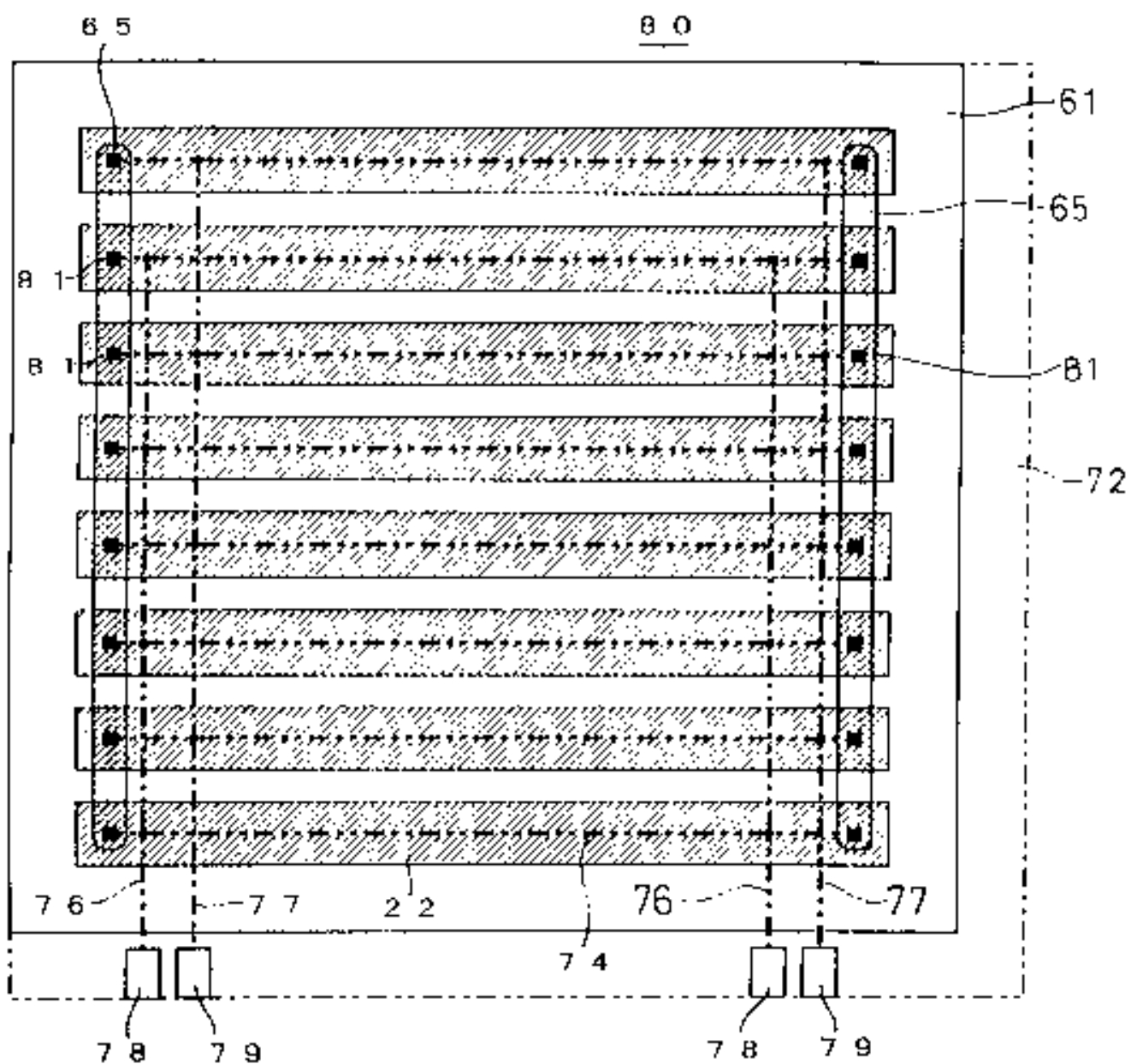
4



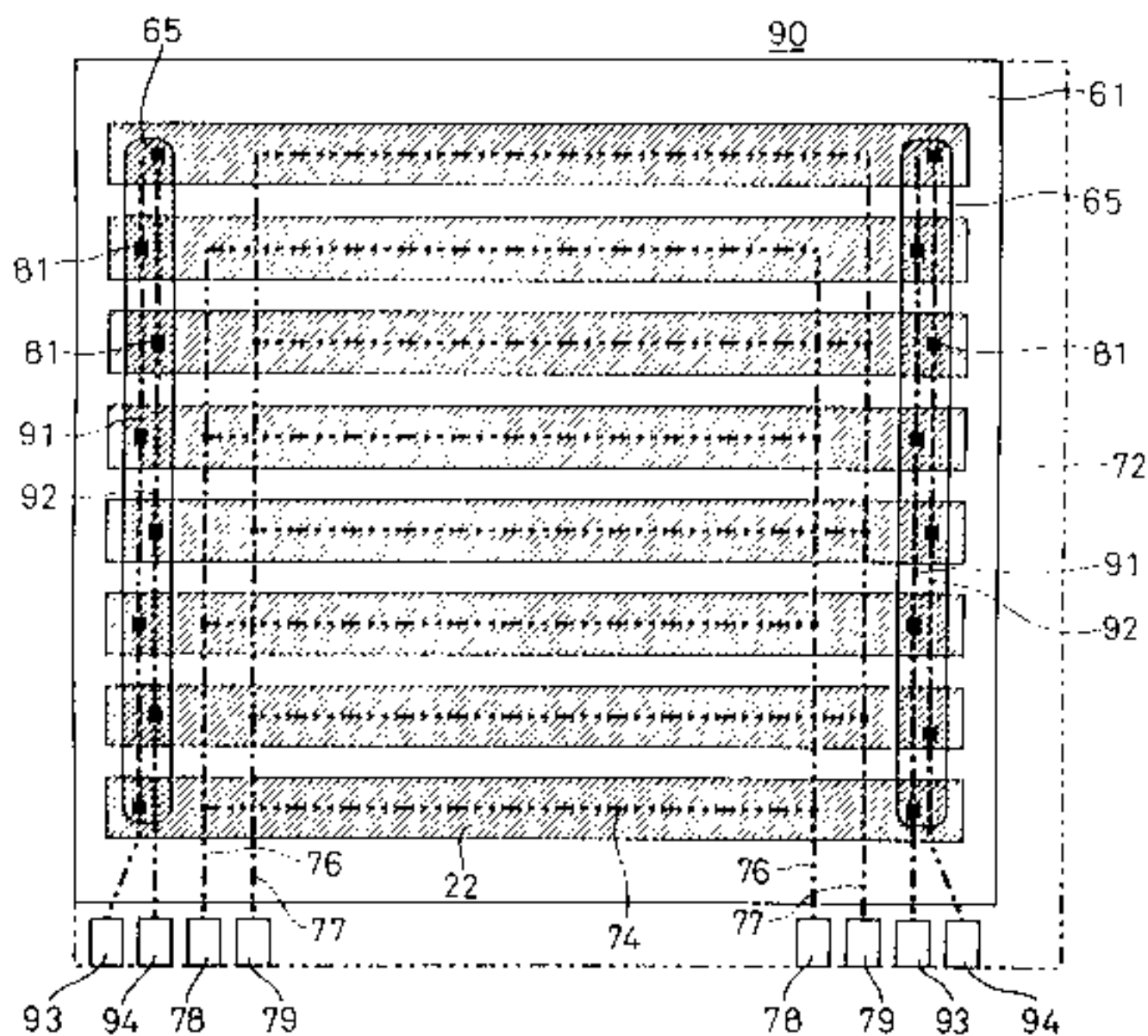
5



6

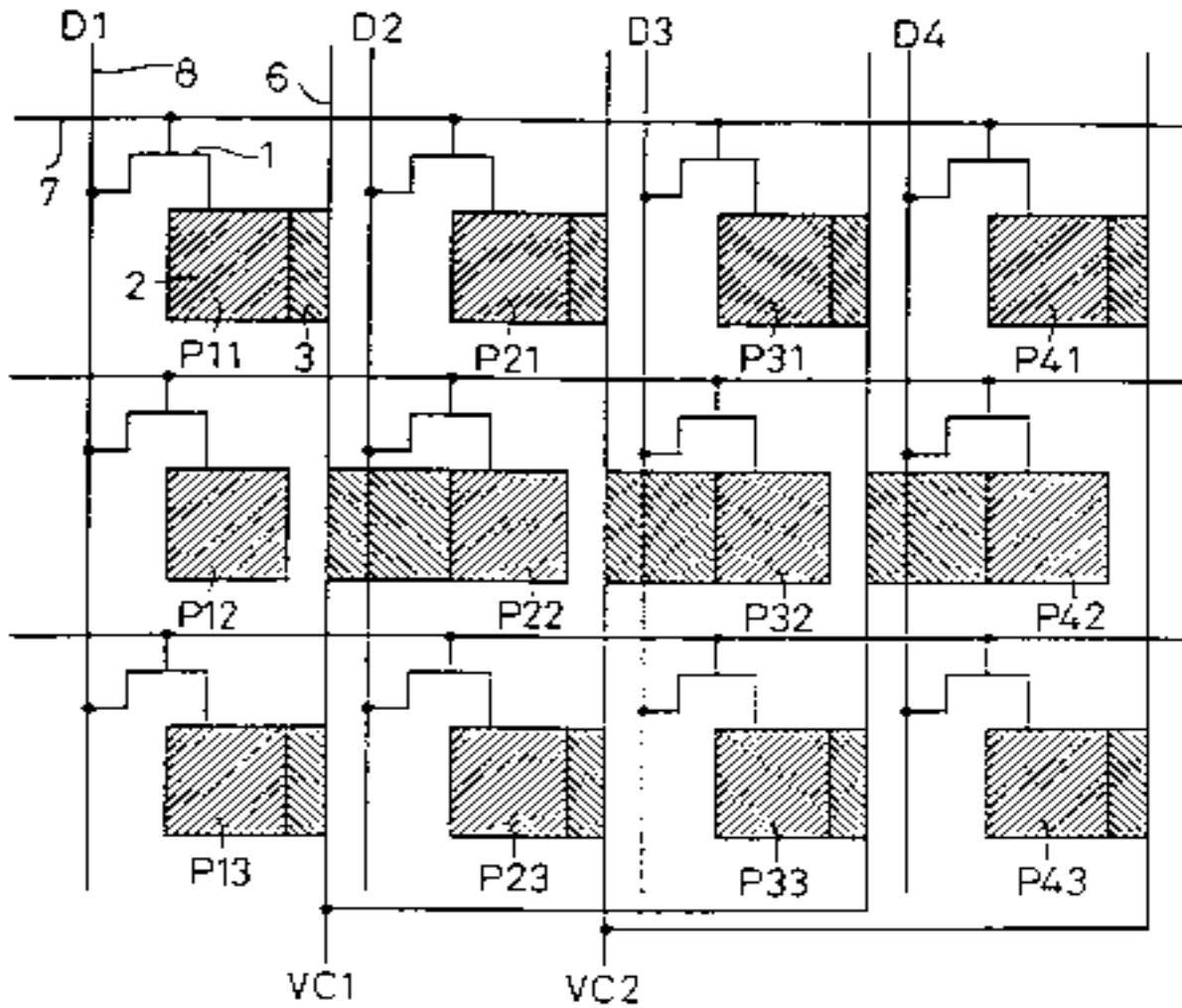


7



종래기술

(a)

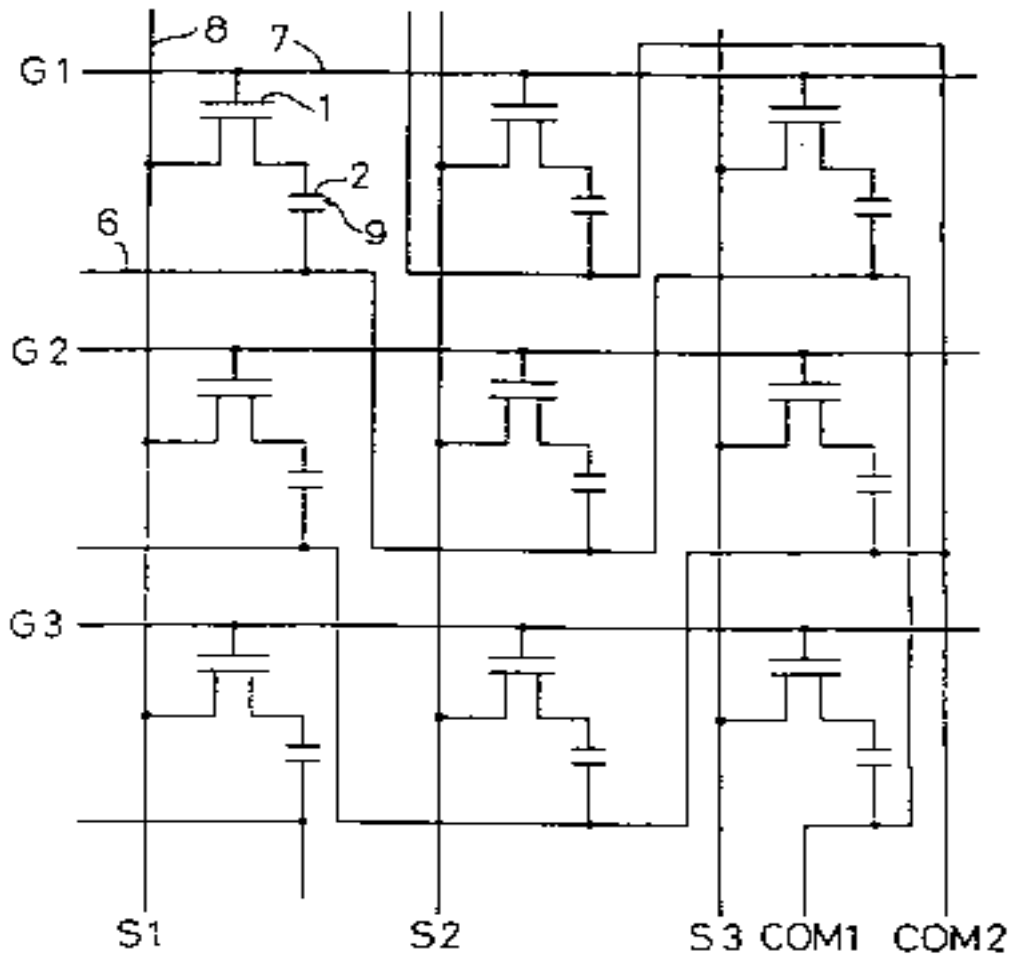


(b)

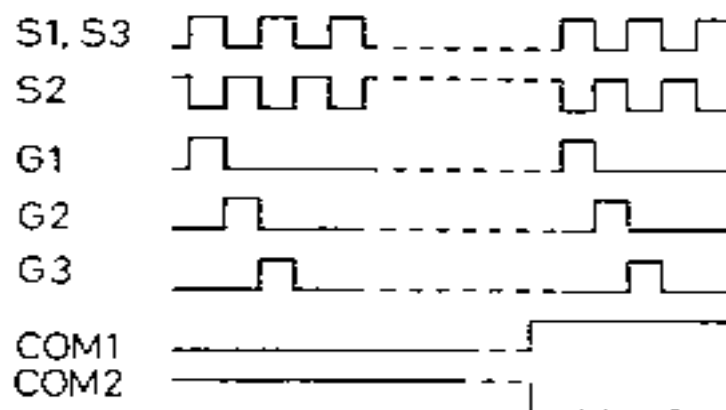


종래기술

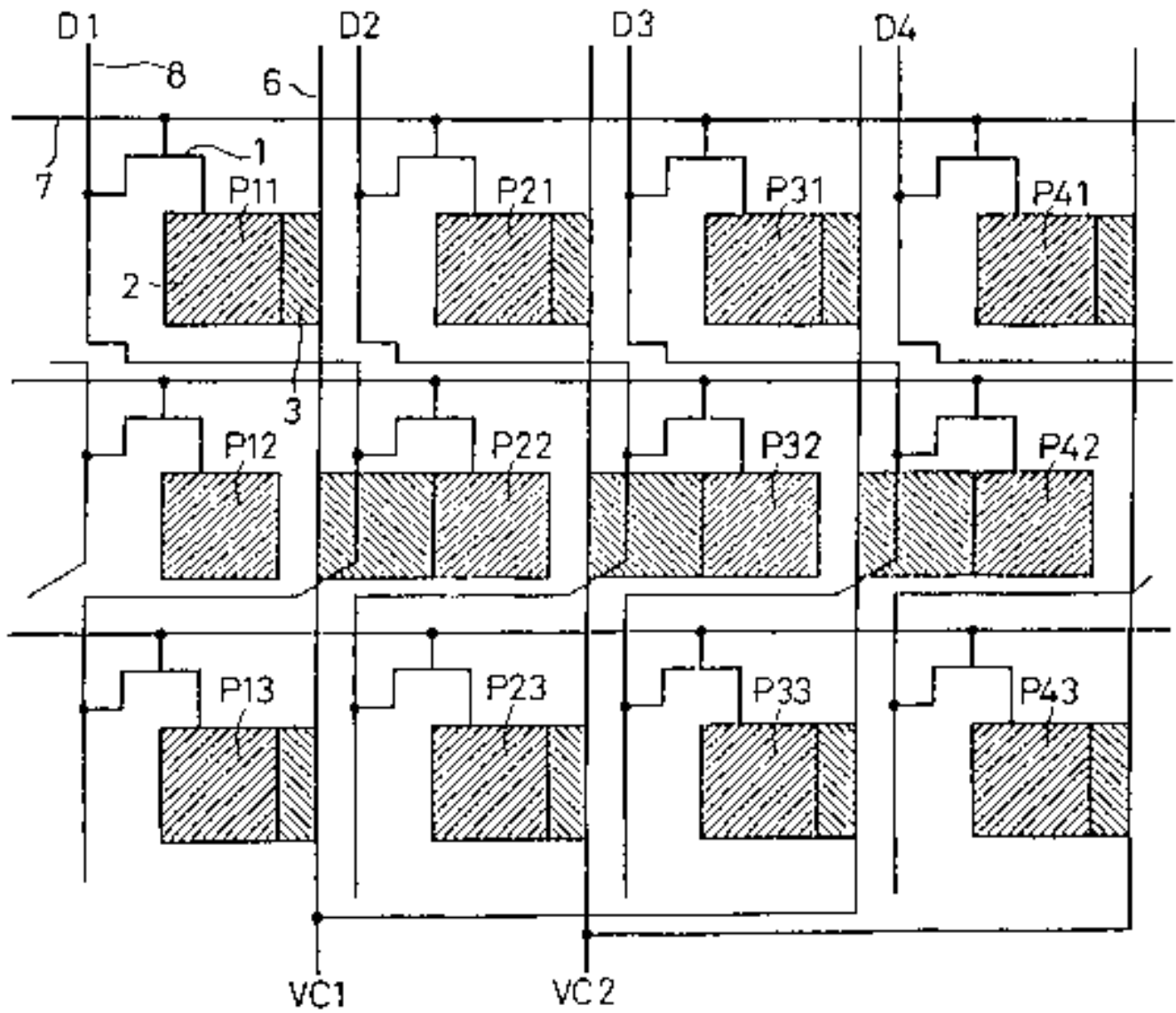
(a)



(b)

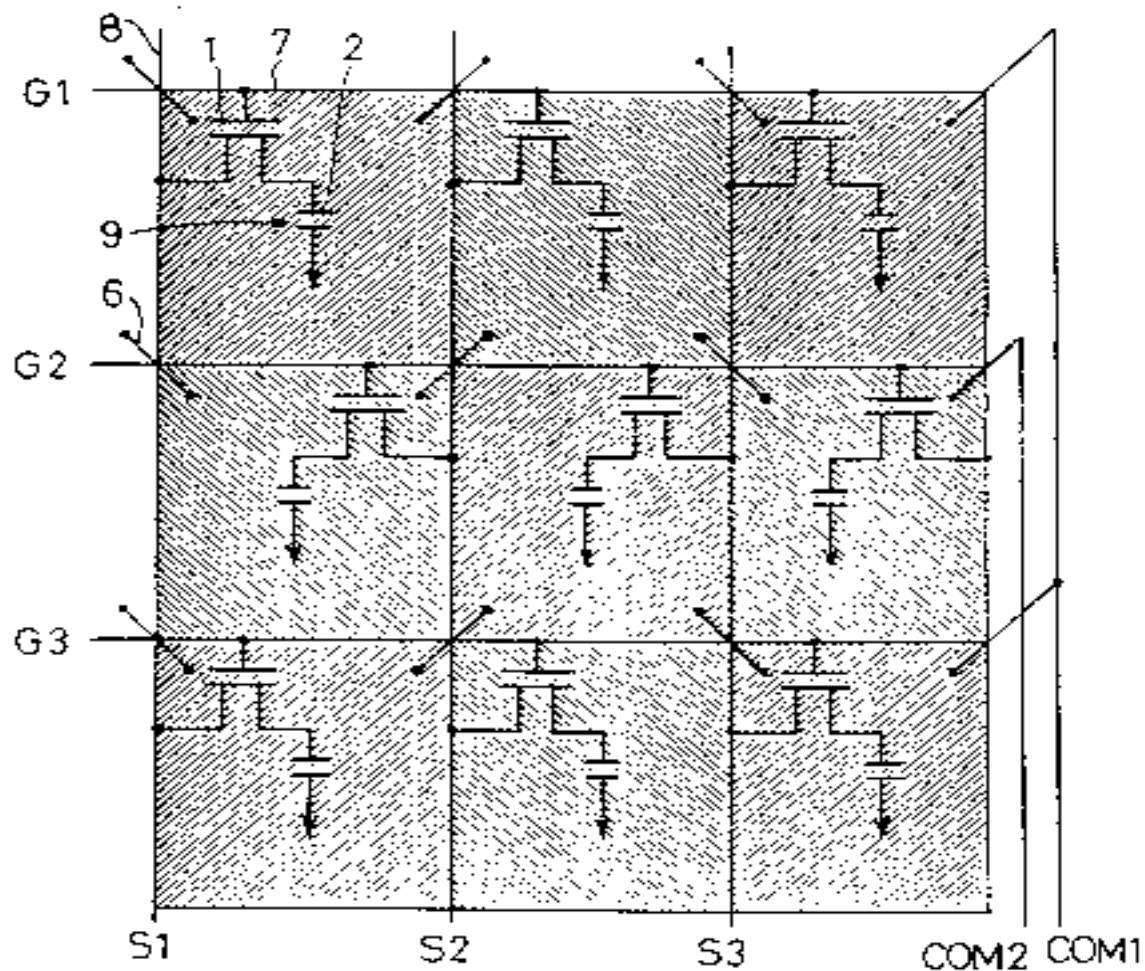


종래기술

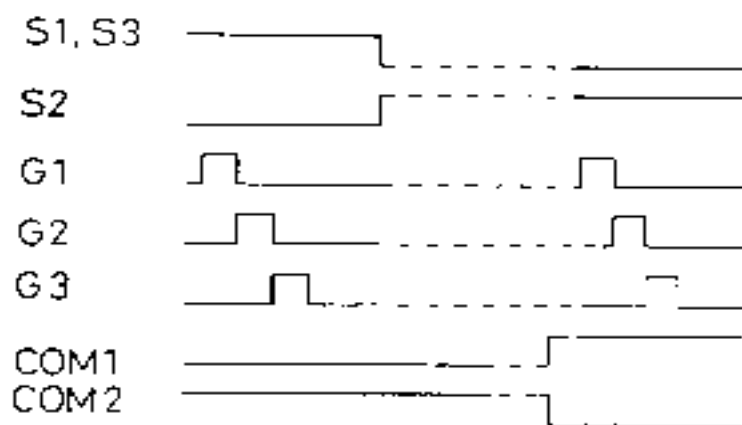


종래기술

(a)

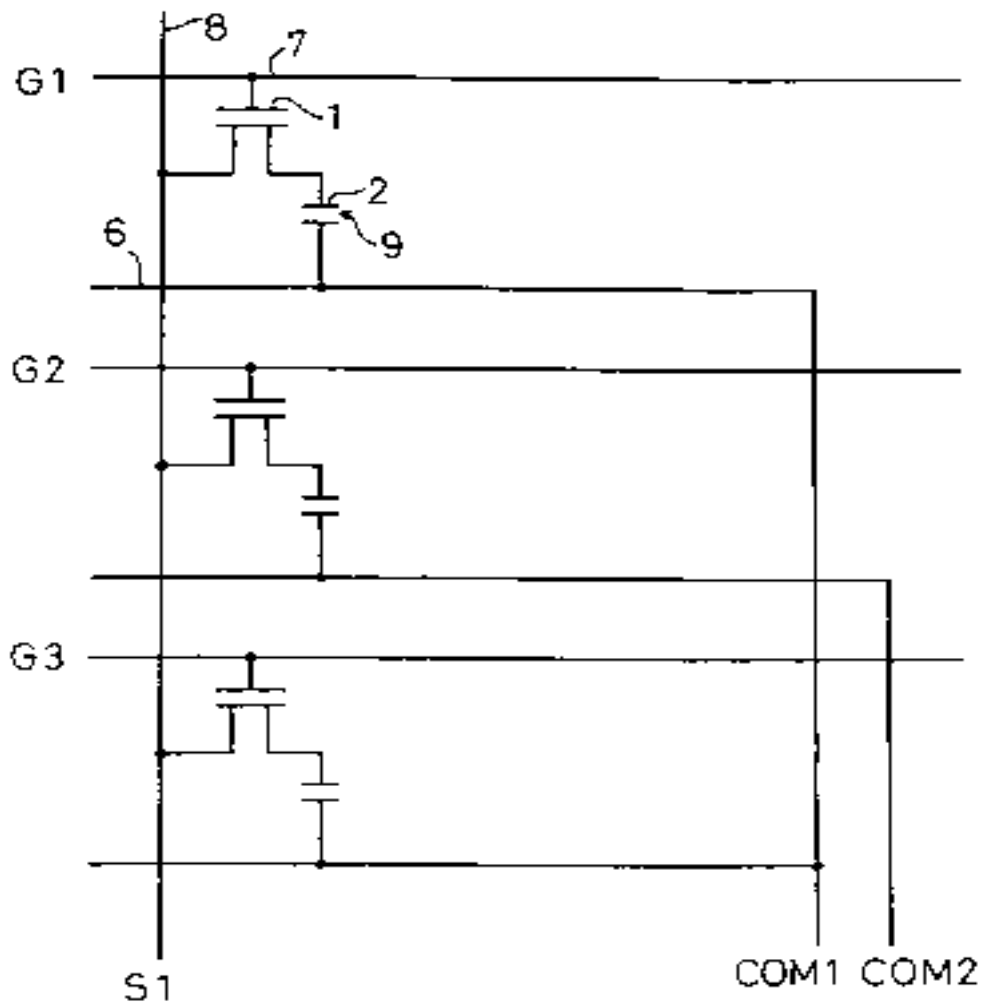


(b)



종래기술

(a)

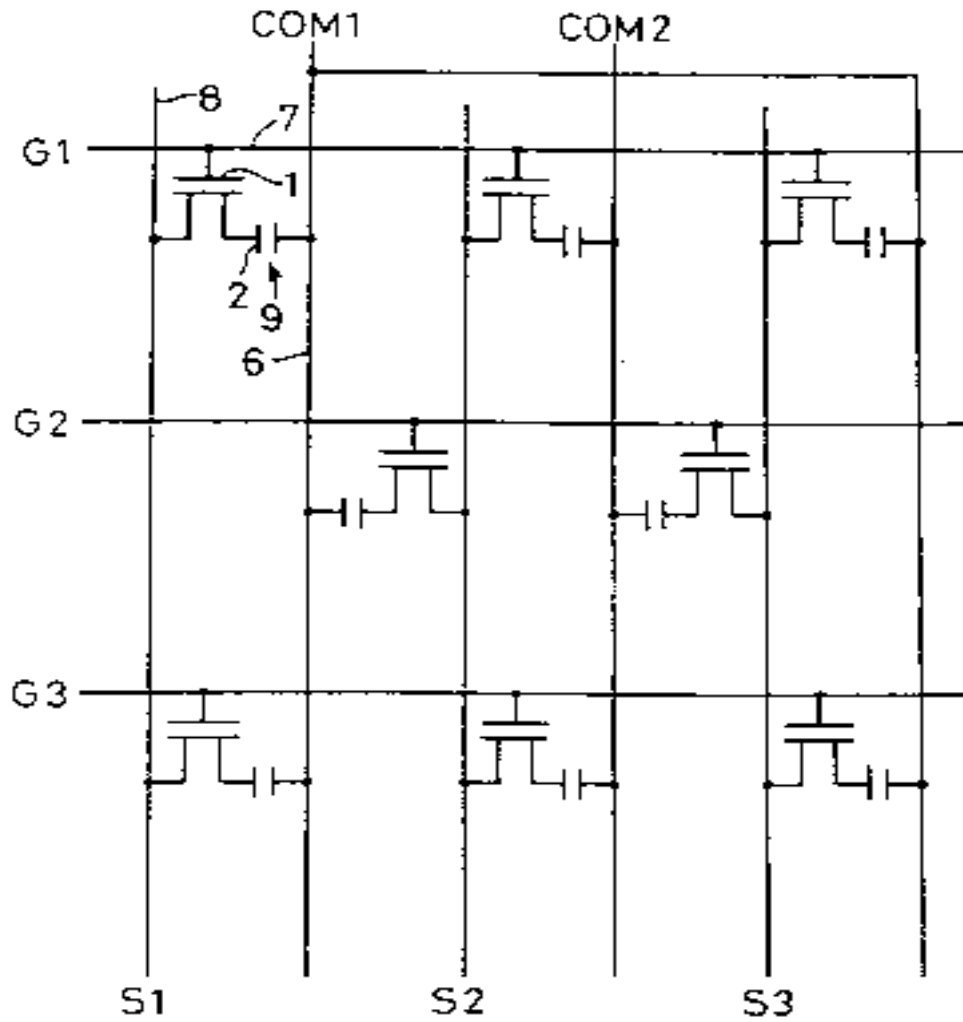


(b)

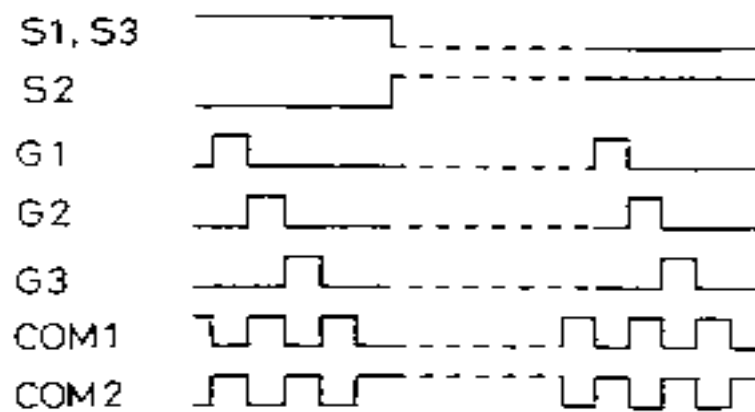


종래기술

(a)



(b)



专利名称(译)	有源矩阵型液晶显示器		
公开(公告)号	KR1020010095132A	公开(公告)日	2001-11-03
申请号	KR1020010016751	申请日	2001-03-30
[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	NAGATA HISASHI 나가타히사시 NOGUCHI NOBORU 노구치노보루 YOSHIMURA YOUJI 요시무라유지		
发明人	나가타히사시 노구치노보루 요시무라유지		
IPC分类号	G02F1/1345 G02F1/1362 G02F1/1368 G02F1/1343 G09F9/30		
CPC分类号	G02F1/134336 G02F1/136213 G02F2201/124 G02F1/134309 G02F1/1345 G02F2201/121		
代理人(译)	LEE, 金泰熙		
优先权	2000095113 2000-03-30 JP 2001006789 2001-01-15 JP		
其他公开文献	KR100361626B1		
外部链接	Espacenet		

摘要(译)

本发明的一个目的是通过以长图案对相对基板上的公共电极进行图案化来减少由于点反转驱动或线反转驱动期间的信号波形的圆化引起的显示缺陷。公共电极沿有源矩阵基板上的信号线方向排列成长形。公共电极的奇数和偶数束交替地连接到分别位于其两侧的第一和第二中继线。第一和第二干线通过导电材料在多个位置处连接到形成在有源矩阵基板侧的存储电容器线上的对电极连接部分。存储电容器线可以由金属层等形成，以具有低电阻。由于公共电极连接到在所述多个位置的存储电容器线，所以能够减少由传入不同程度的显示不良的显示不良，或公共电极和存储电容器的电极之间，由于公共电极电位的输入。

- 1 - 1

