

(19)
(12)

(KR)
(A)

(51) 。 Int. Cl.⁷
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(43)

10-2004-0018124
2004 03 02

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10-2003-0048175
2003 07 15

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JP-P-2002-00243947 2002 08 23

(JP)

(71)

가 가

가 22 22

(72)

가

가 3 13-9

가 53-205

6-1093-111

2613-1-1018

(74)

:

(54)

,

,

1 , 1
2
3
4 (a) , 4 (b)
5 1
6 1
7 1
8 1
9 1
10 1
11 1
12 1
13 1
14 , 2
15 2
16 , 3
17 3
18 3
19 , 4
20
21 (a) 21 (j)
22

< >

1 :
2 :

3 :

4 :

5 : TFT

6 :

7 :

8 :

가 , PDA , 1 , 가 , 가 , 가 , 가 , 11-101992 (1999 4 13)(11-101992 (101) : US6195140) 22 (102) , () (101), (102) () , (:)(103) (104) (103) (104) 1 5 μ m 20 80% 가

가, 가

가 () , 가 () .

가

[1]

1 1

2

(1) , (2) , () (3), () (4), TFT(Thin Film Transistor) (5)

(1) , (6) (7) (8) , TFT (5) (6) , (8) (3) (4) (1)

(3), (9) (4), TFT (5), (6) (9) (7) , (9) (7) (9) (10)

(9) (7) (11)가 , (11) (6) (9) (11) (11) (7) (9) (6)

, (7), (3), (4), TFT (5) .
 , (6), (3), (4), (3), (4), (7)
 (7) (6) (6) .
 (6) (7) (6) .
 (1), (6) (7) ,
 (1) (1) , 1 ,
 가 () 가 () ,
 (1) ,
 3 (1) .
 , (1') (21) (31) , 3
 , (12) (13) 2 (1) (31)
 (31) (23) (24) , (21) (22) (25) (26) ,
 .
 (6) 가 , (4) (10) (9) (,) TFT (5)
 가 (1') (6) (7) (21) (7) 가 (24) ,
 , (31) .
 , (1') (9) (11)가 .
 (31) , 가 , (31)
 (9) , 가 2 ,
 ((2))
 , (31) 가 , 가 (1)가 .
 , 1 , 270 μ m, 가 90 μ m,
 7 μ m, 89.8%, 8.9% ,
 98.7% .
 , (7) (6) , 4 (a)
 (3) (4) , (3) (4) (6)
 (14) .
 , (6) (7) (6) (7) (6) .
 (1) (6) (7) (14) (6)
 (7) 가 (14) .
 (14) , (31) 가 ,
 (14) .
 , 4 (b) , (14)
 (15) (6) (7) 가 , (15) (3)
 (4) , 가 가 (4
 (b) (15) (3)). ,
 , (14) (15) .
 , 1 (7) ,

가 , 5 13 . , (6) (7)

5 13 , 5 , 13 (7) (3) TFT (5) (4) (6)

, (7) 8 11 , 5 + , 12 13 6 7 T

, , 가

, 1 , (3) (4) (7) (3)

(4) (3) , 5 13 ,

, (3) 가 , (3) (3) (6) (6)

) (3) (3) , (14)

, 5 13 (, (14)) , (15) 가 (15)

2 , 13 1 , (7) , (6) , 1

, (7) (6) 가 .

{ 2 }

, .

1 , (7) , (6) (7)

2 , (7) (6) ,

2 14 , (7) 14 , (3) TFT (5) TFT (5) , 14 (6) (

4) , 14 , (7) (4)

14 (4) ((7)) 1 , 10cm ()

TFT , (4)

6) , 14 , (7) (3) , (

, (7) , (3) 1 , (3)

. , (7) , (3) (3)
 , (7) (3) , (7)
 (3) , (7) (3) , (7)
 가 . (3) (3) 1
 , (7) (3)
 , 14 , 270 μ m, 가 90 μ m,
 92.2% 7 μ m , 89.7%, 2.4%,
 , 2 (7) ,
 가 . , 15 (6) (7)
 (3)
 1 , (7) , (6)
 3 , (7) (6) (7)
 3 16 , (7) 16 (4) TFT (5) , 16 (6)
 3) , 16 (7) , 16 (5) TFT (5) (6)
 16 , (7) (3)
 , (3) 1 TFT (5)
 (3) TFT (5) , (7) (3)
 16 , (7) (3) TFT (5)가 , (3) 가 ,
 (7) (3) , TFT (5)가 ,
 (3) (7) (7) , (3)
 , 16 , (7) , (4) (6)
 (3) , 가
 , (7) (3) TFT (5) , (3)
 (7) (3) 가 , 가

, 16 7 μ m , 270 μ m, 가 90 μ m, 7.3%,
 97.1% , , 89.8%,
 , 3 (7) , (6) (7)
 가 , 17 18 , (7) (7) (4)
 , (7) (4), (4)
 [4]
 ,
 가 1 , 3 , 가 ,
 가 , , 4
 4 , 19 2
 0
 TFT (51) , (2) , (3), (4),
 (5)가 , 1 가 ,
 TFT (5) (52) (52) (54) , (53) (53)
 , (52) (54) (52)
 4 (51) , (6) (7)
 (6) (7) , (51) (53) (6) (7)
 , (51) , (6) (7) (53)
 가 , (6) (7)
 (6) (7) (51) , (6) 가 (7)
 , (51) , (6) 가 (7)
 , 가
 (51) 21 (a) 21 (j)
 21 (a) , (2) , (3), (4), TFT (5) (52) 가 (5)
 3) , 21 (c) , 21 (b) , (61) , , 가
 , 21 (d) , (53) (54)
 , (53) (54) (19).
 , 가 , (53)
 가 , 가

(7)

(53) (54) (51) 21 (e) (62)

(63) (, (21 (f) 21 (g) , (6))

21 (h) (64) (65) (, (21 (i) 21 (j) ()) ,

(7)

(6), (7) (63, 65) , 1

μm 가 , 21 (j) (66) (66) (7) (6) (7) (

6) (7) , (66) 가 .

3 μm 가 .

(

가) , (51) , 5 μm 가 .

4 ,

1 3 , (6) (7) (9) 2

(9) (11)가 (6) (9) (2).

(11)

(11) 가 . (7) Al

(CF)(21) / (7)

가 4 , 1 3

1 3 가 .

19 (51) , (52) (7) (54)

(52) , 20 (6) , (52) (6) (6)

(52) , (52) 가 (6)

(51) , (7) (3) (4) 가 .

2 3

1 4 (51) , (7) (3) (3)

(3)

(51) 가

1 가 .

4 (51) , (6) (7)

(51) (6) (7)

가 , 가

가 ,

1 4 (41)(3)
가 .

1 4 (7) (6) (7)
가 (6) 가 (1 3),
가, (4) .

(7) (6) 가 , ()
() () .

1 3 (3) (4) TFT (5) (3)
(4) , (7) (6) , (6) TFT (5) ,
(7) (6) , (9) (7) , (9)
(3) (4) (7) (7) , (6)
가 .

(6) 가 , (7) 가, (7)
, 가
가 ,
, 가
(7) (6) , (9) .

4 (3) (4) TFT (5) (3)
(4) , (7) TFT (5) (3), (4) TFT (5) , (6)
(6) , (53) (7) (6)
3 μ m .

(7) (6) , (53) 가
.
(7) (6))
(5)) , 5 μ m , (7)
, 가 , (3 μ m)
가 .

(7) (6) 3 μ m
.
.
가 가

()

가

가

가

(57)

1.

가

가,

가

2.

1

가,

3.
2 가

4.
1 가
3μm

5.
2

6.
4

7.
2

8.
4

9.
2

10.
4

11.

가

가

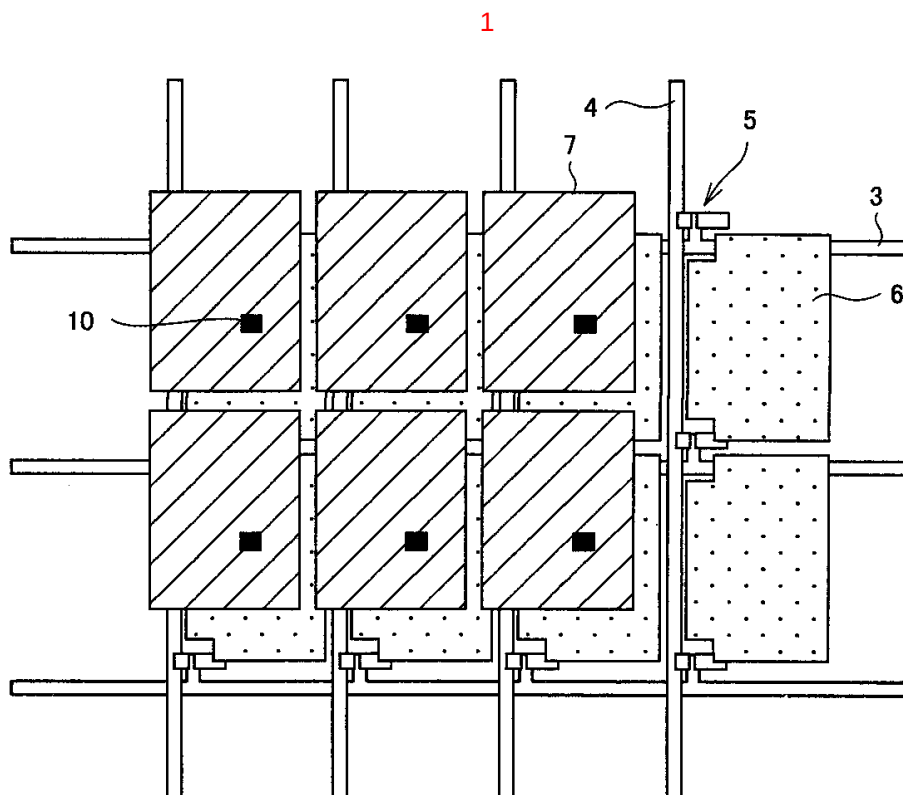
가,

12.

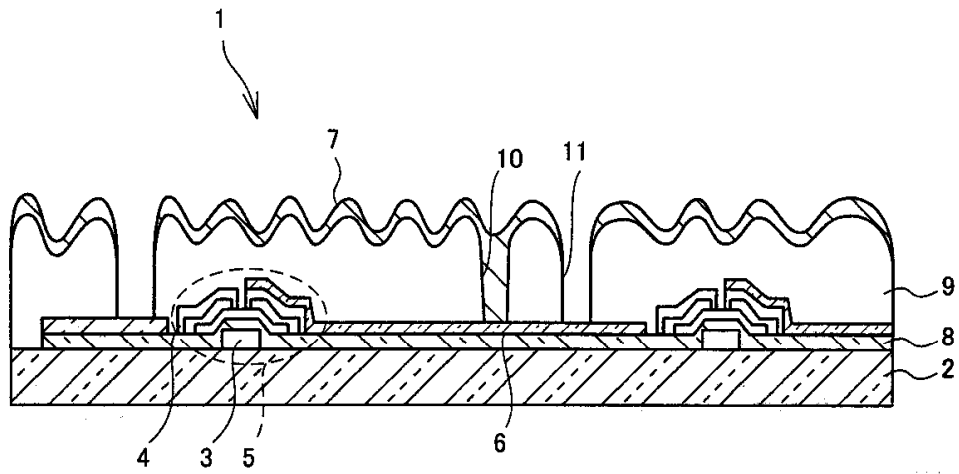
가

가

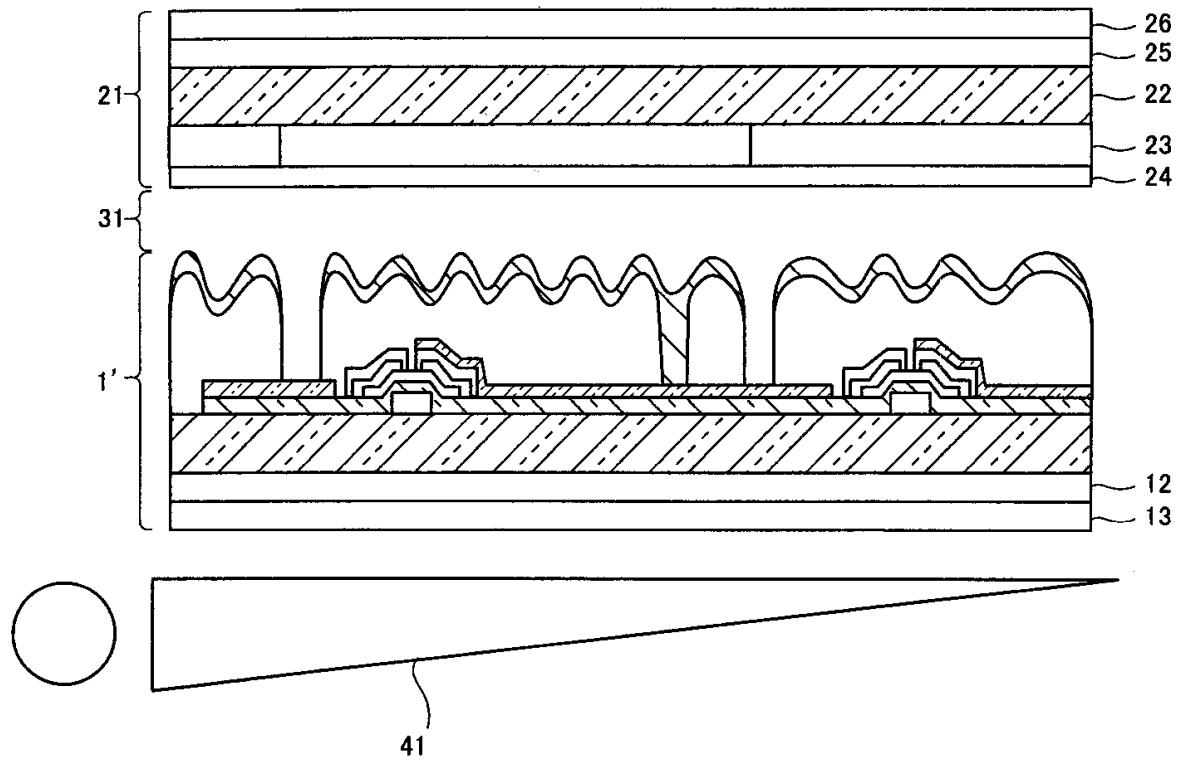
가,

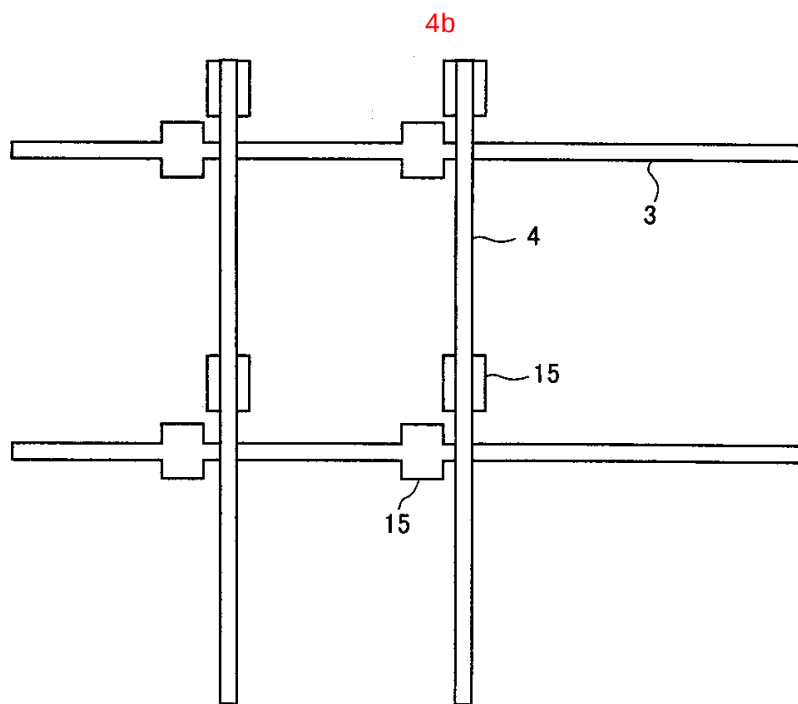
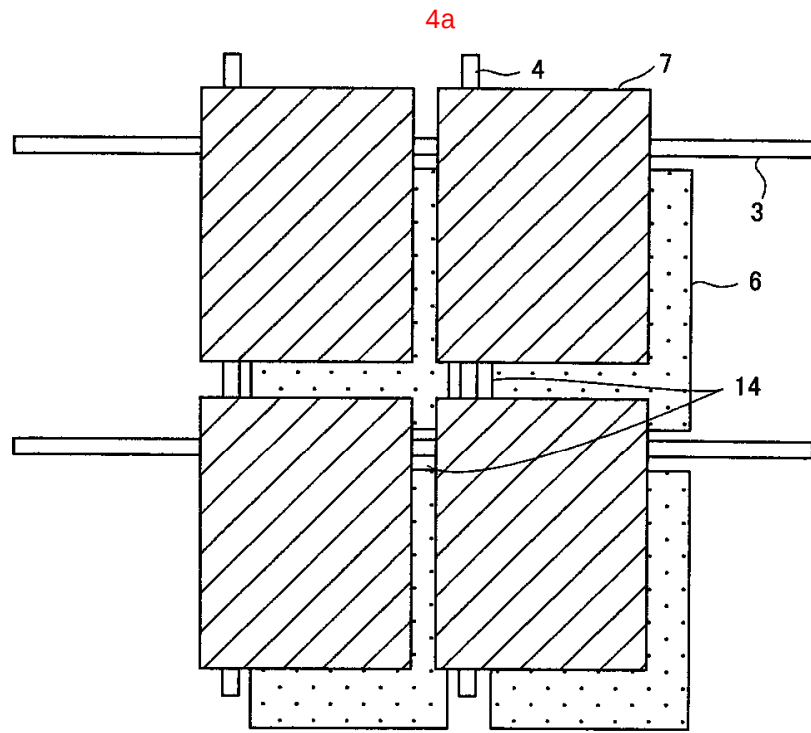


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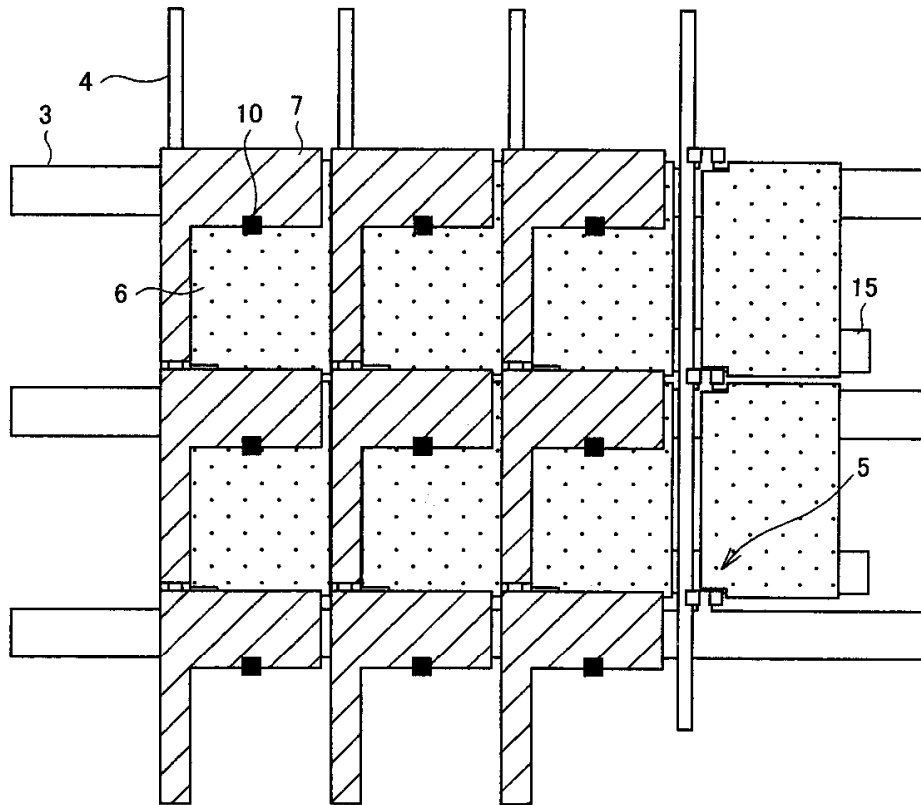


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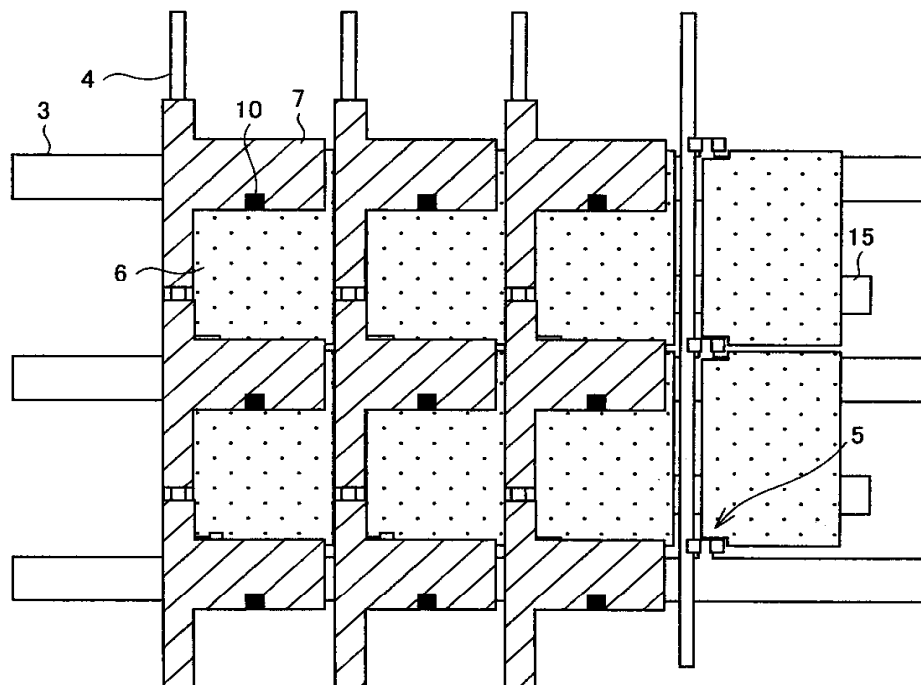




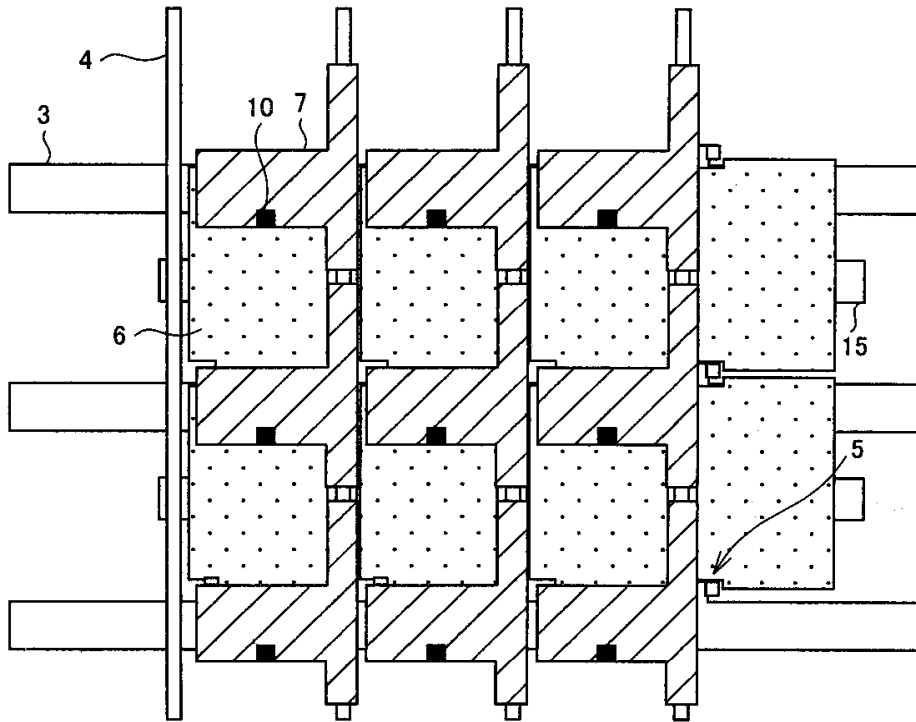
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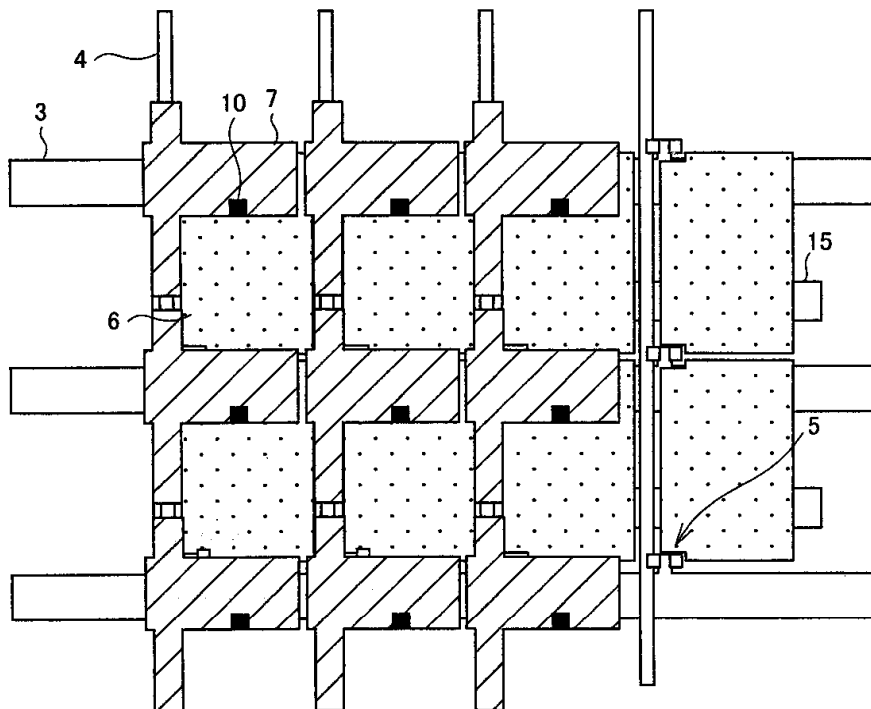
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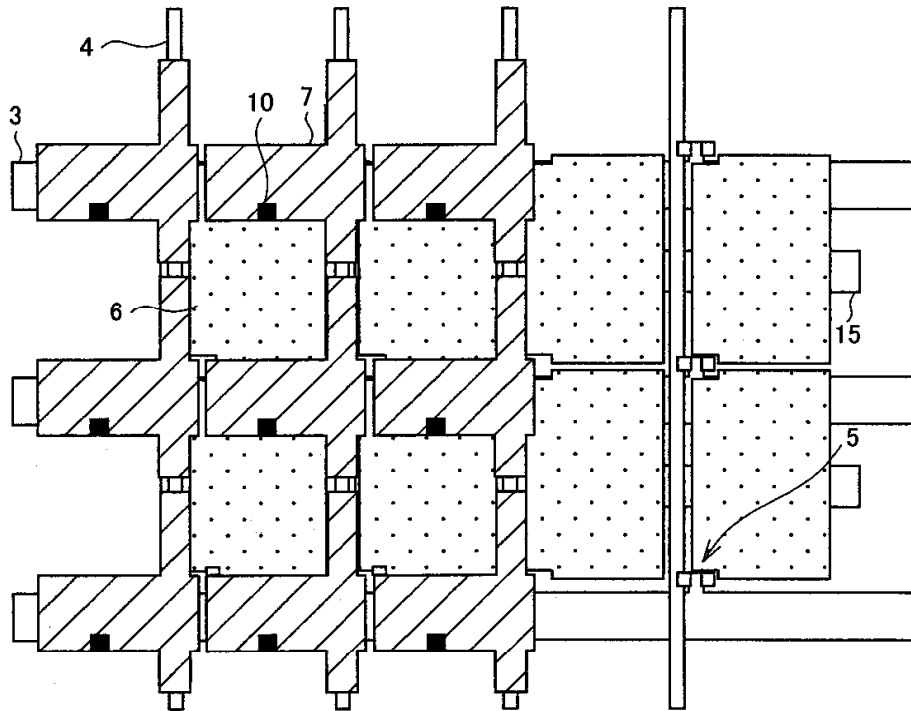
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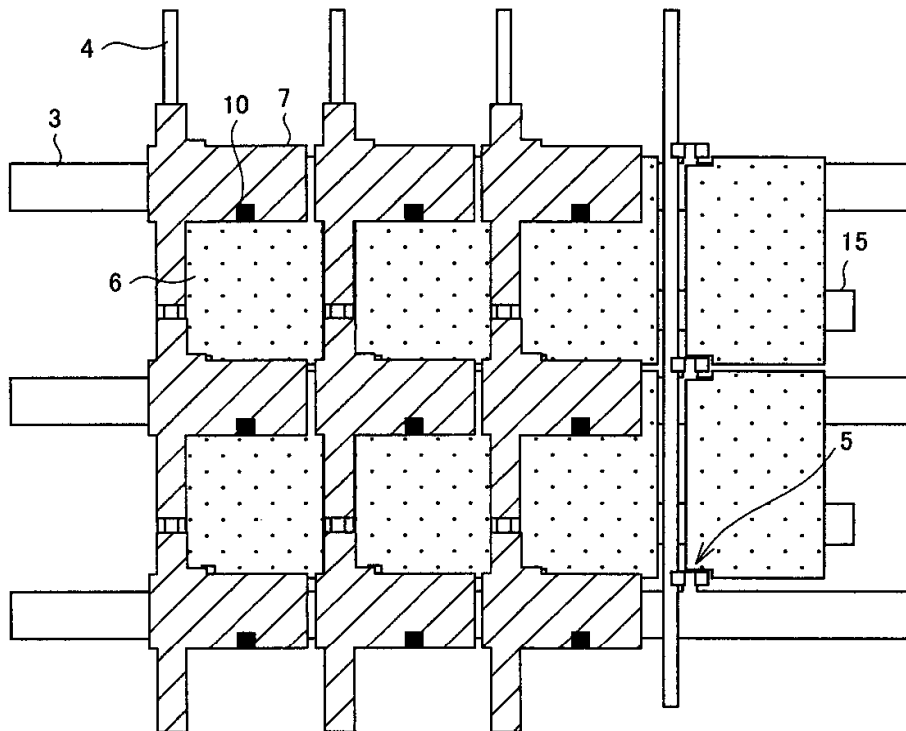
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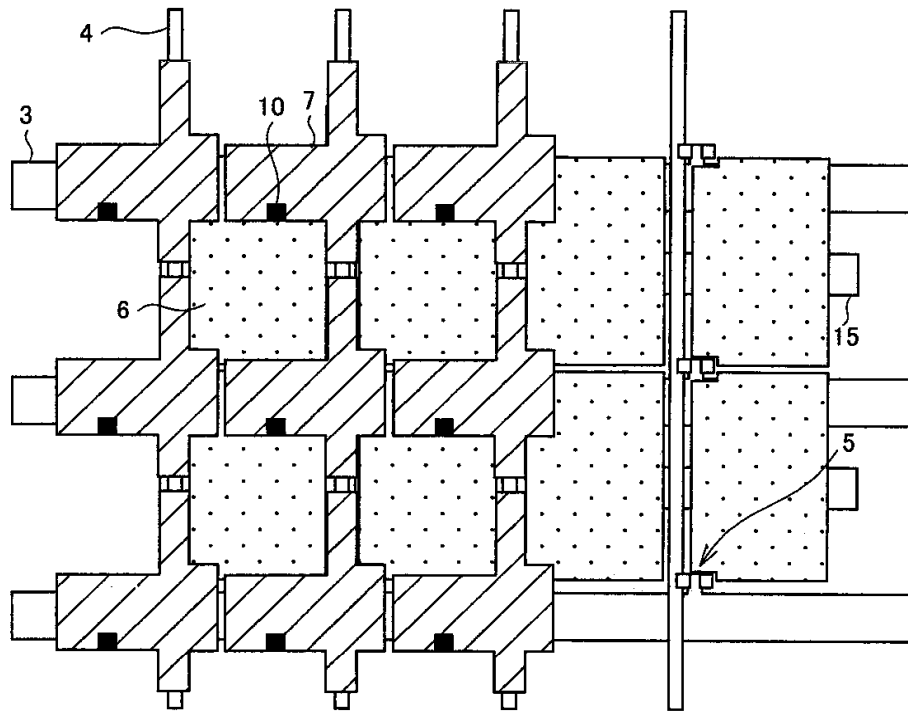
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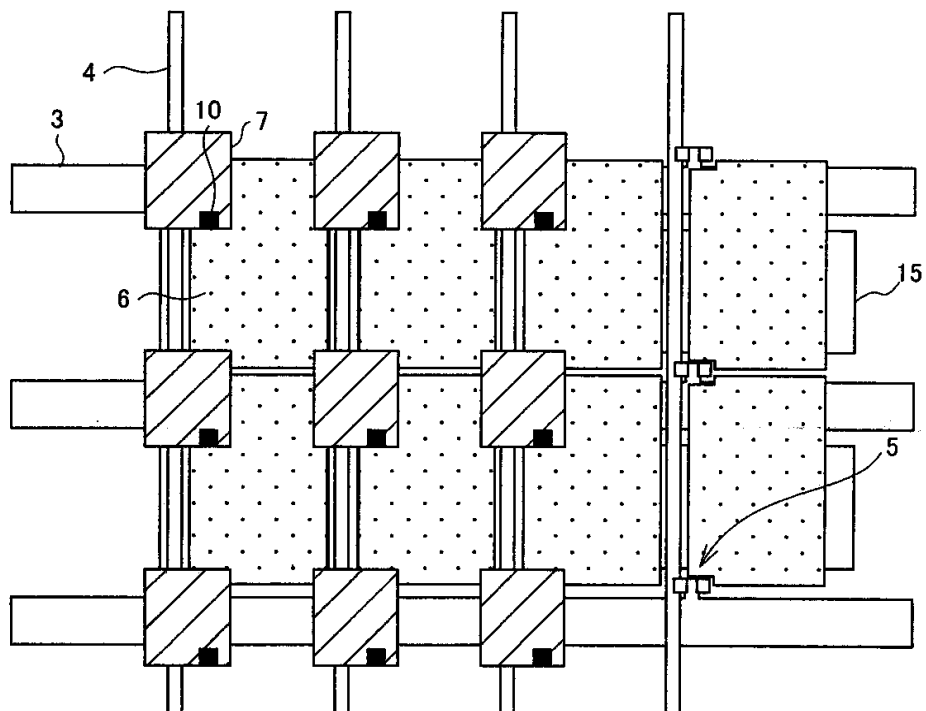
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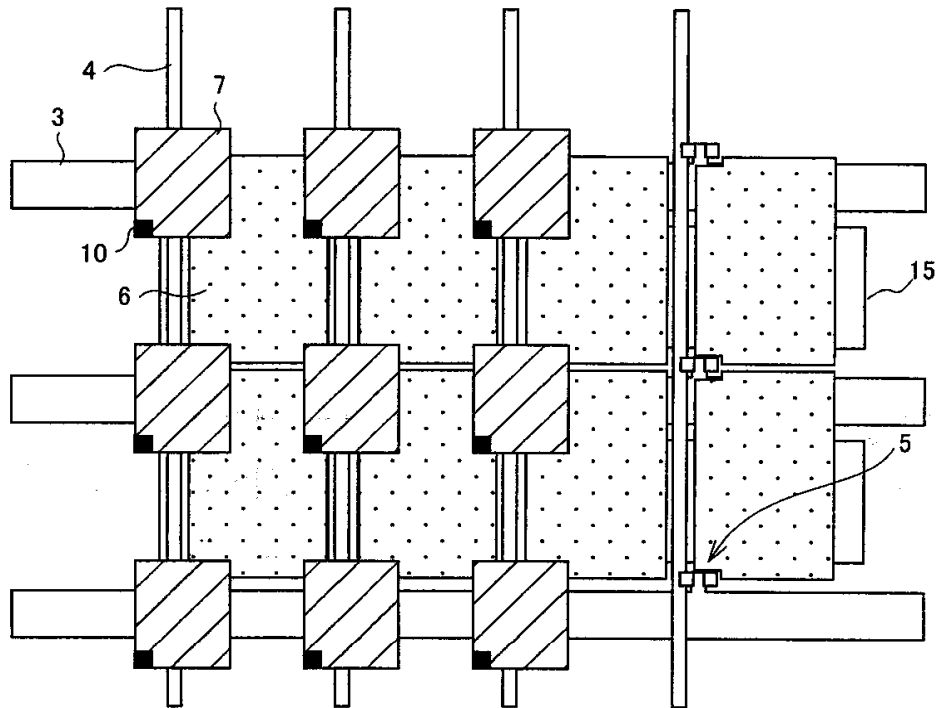
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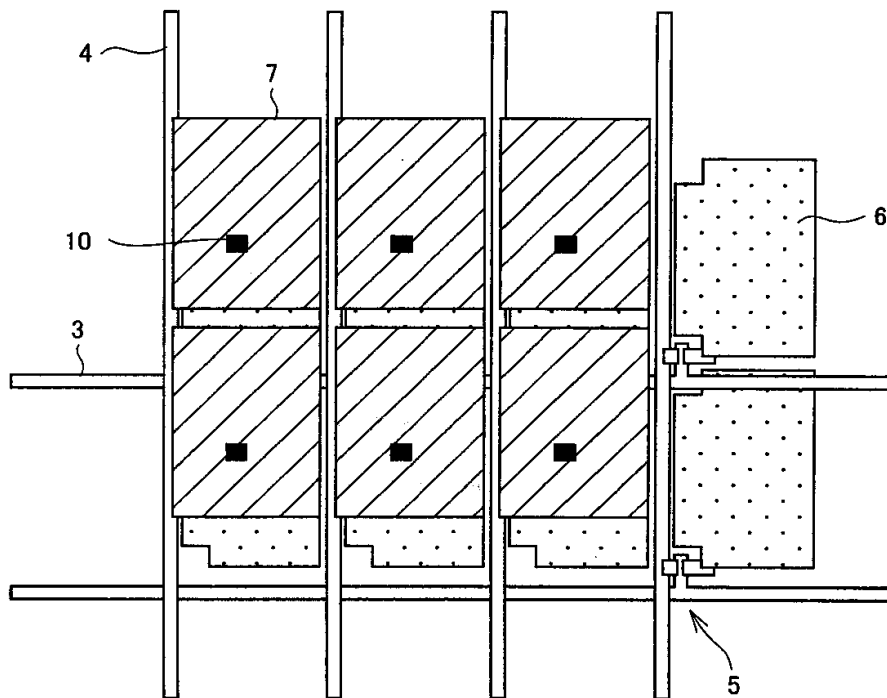
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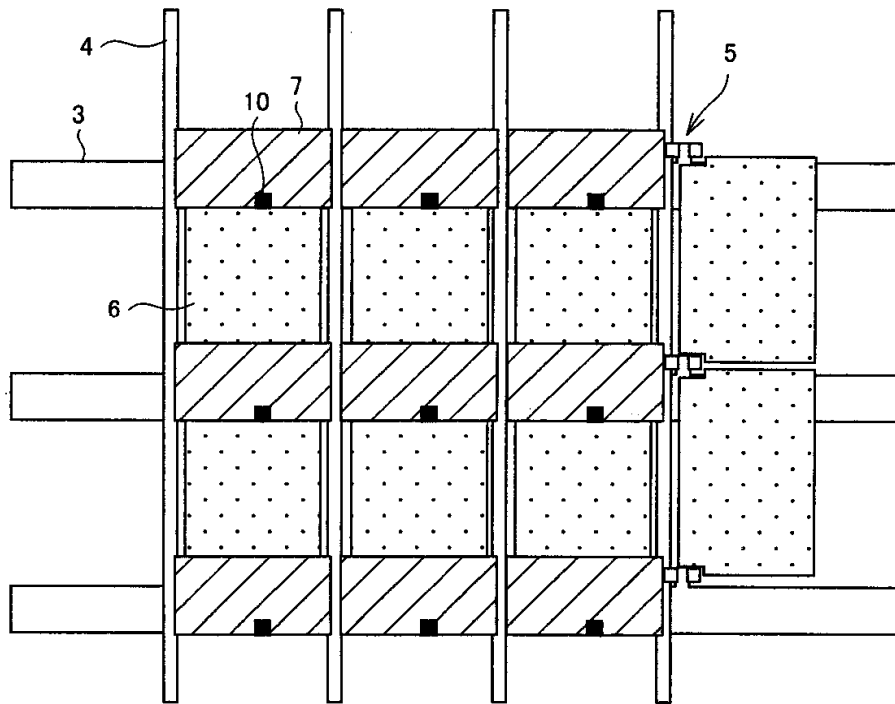
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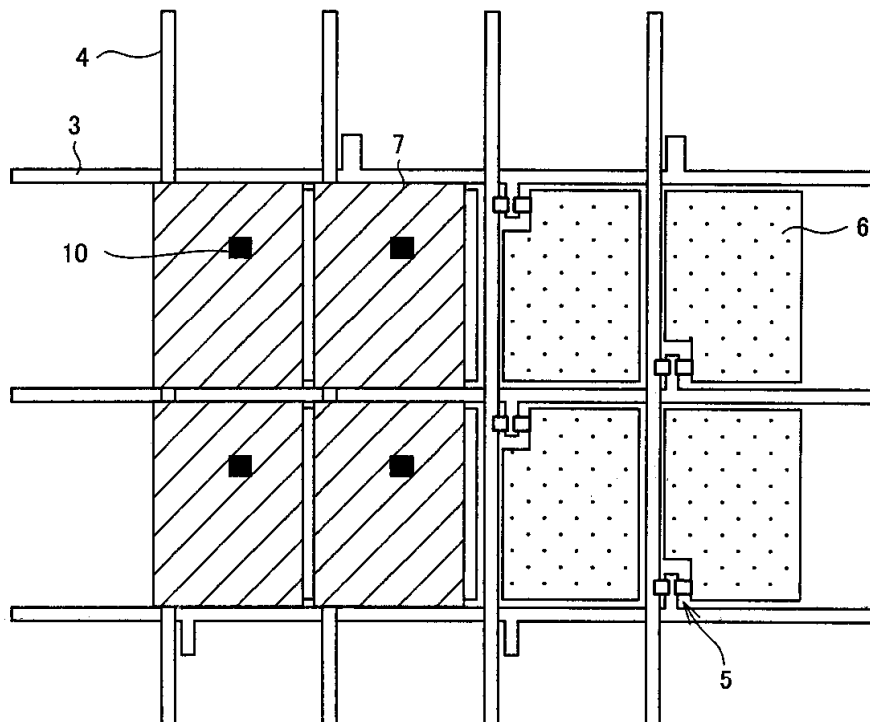
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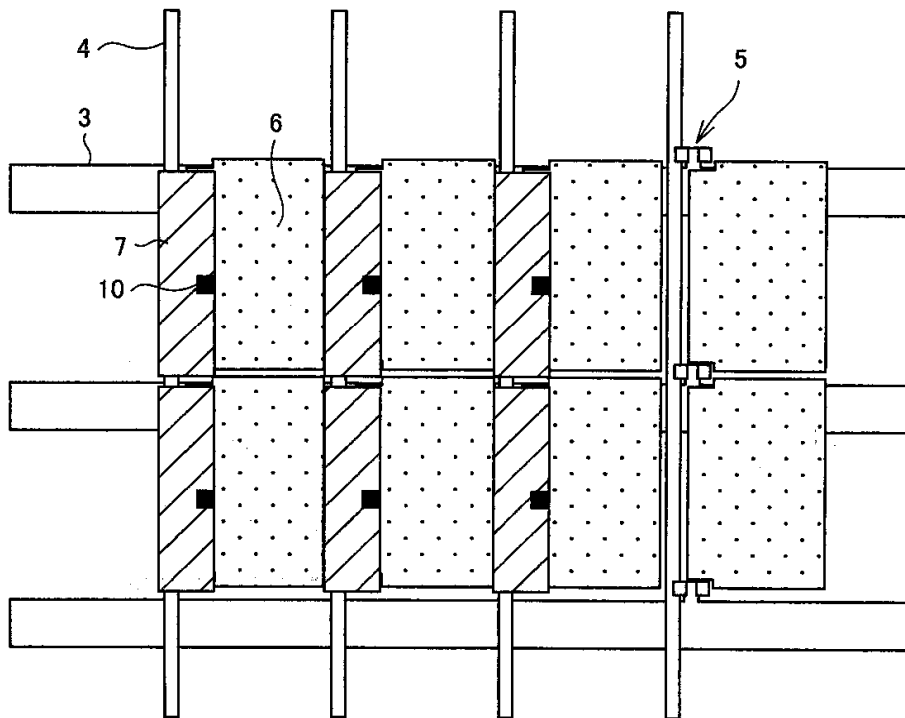
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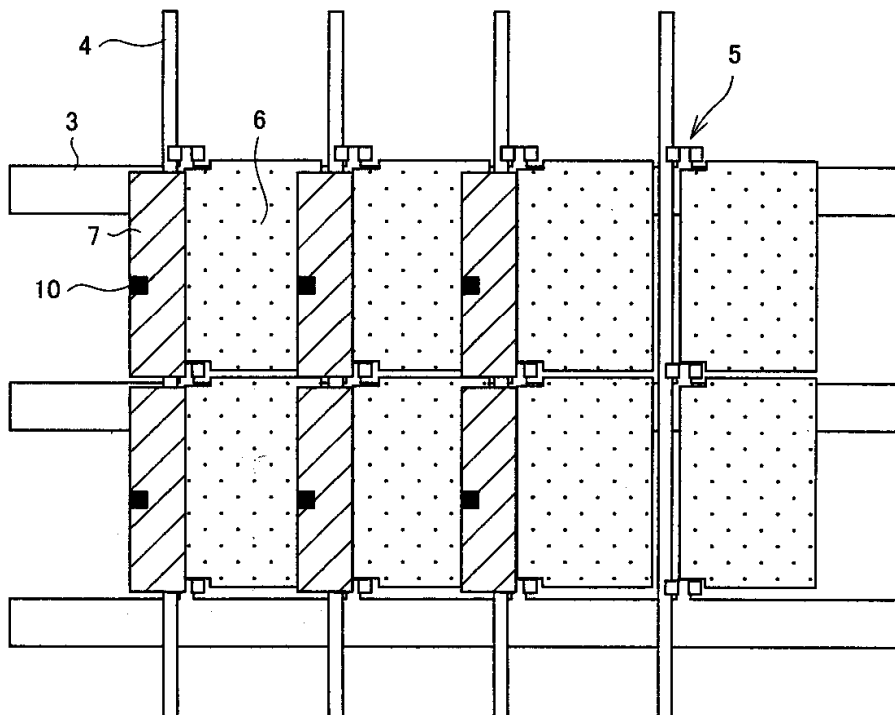
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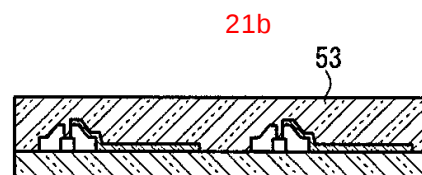
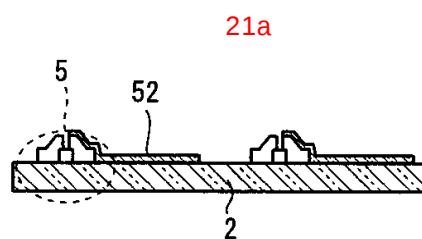
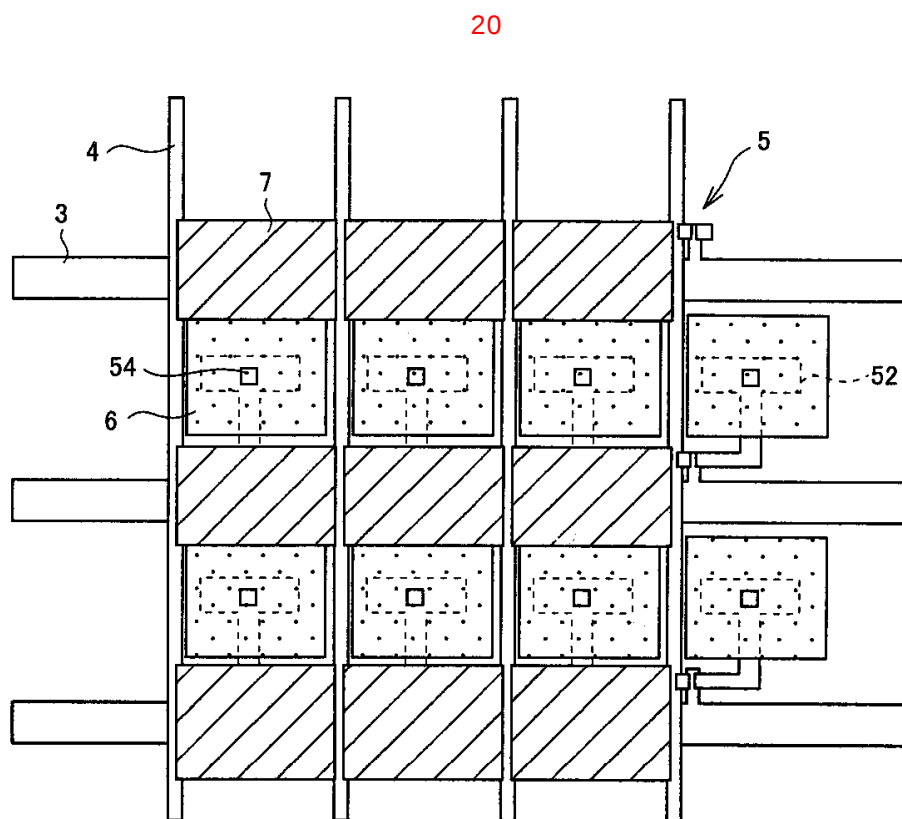
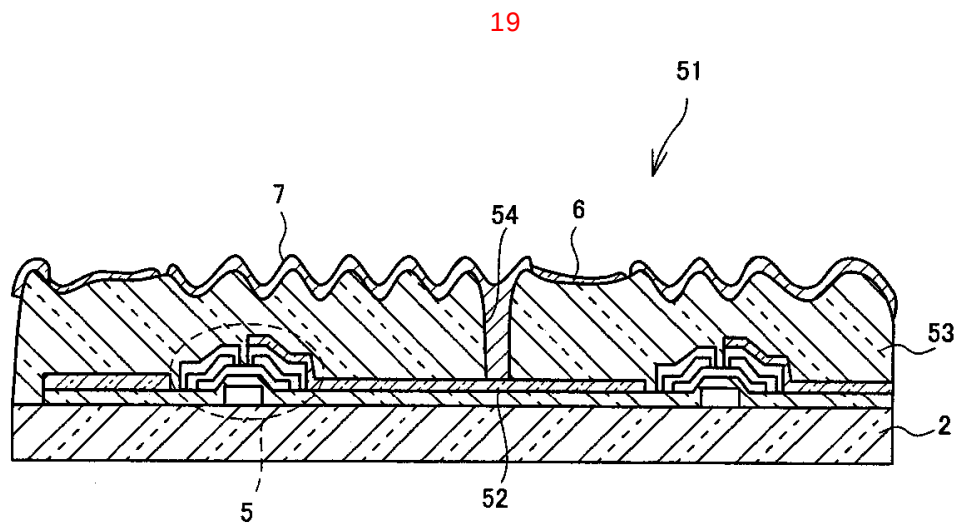


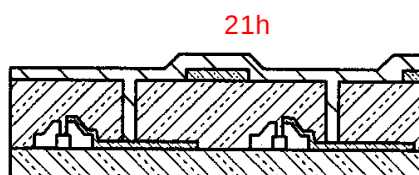
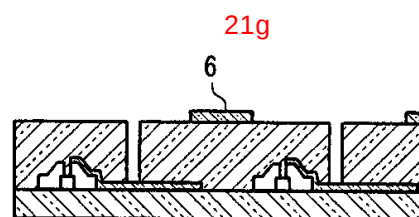
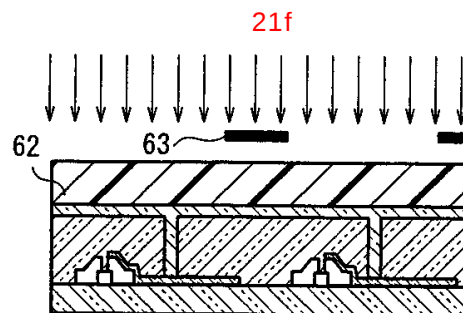
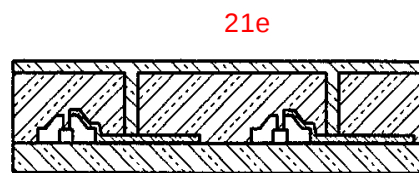
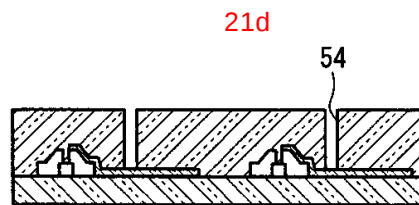
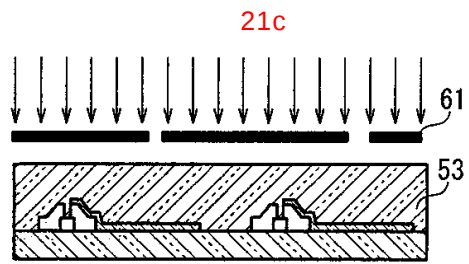
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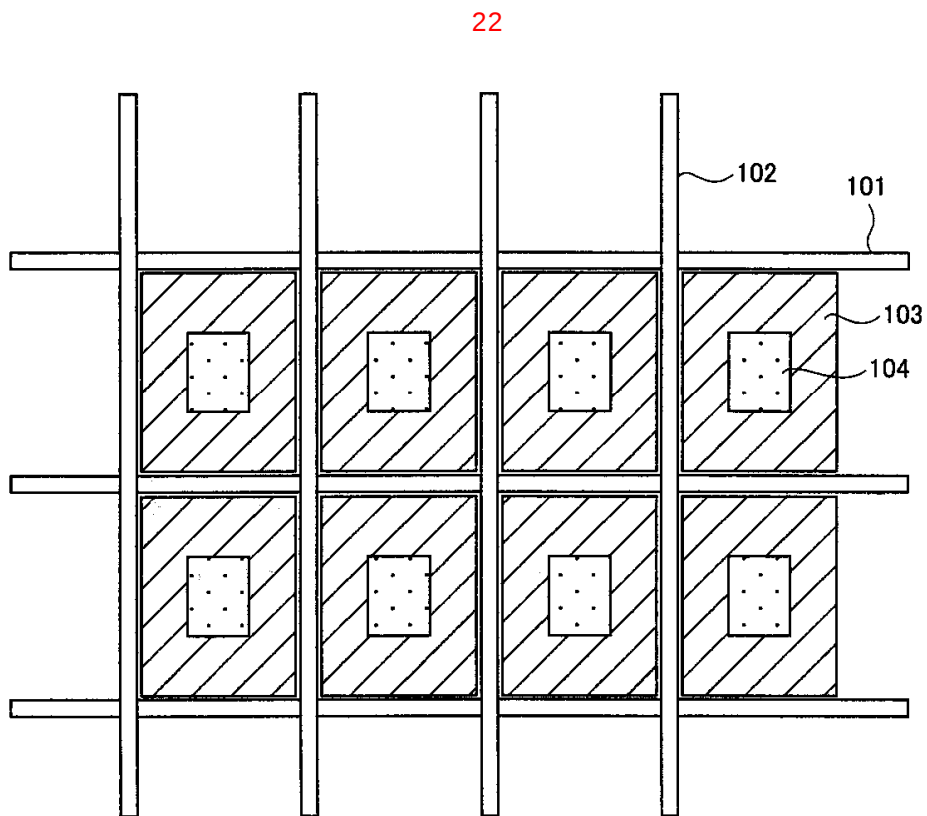
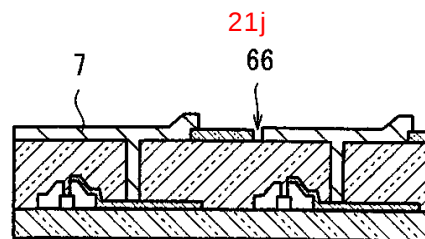
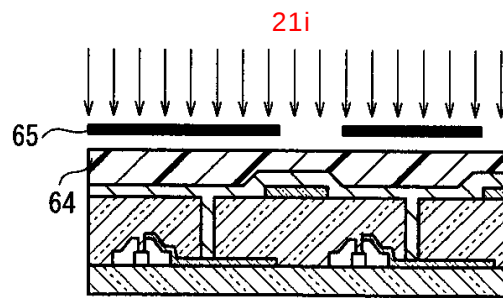


18









专利名称(译)	有源矩阵基板，反射透射型液晶显示面板和反射透射型液晶显示器		
公开(公告)号	KR1020040018124A	公开(公告)日	2004-03-02
申请号	KR1020030048175	申请日	2003-07-15
[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	TSUDA KAZUHIKO 쓰다가즈히꼬 NAKAMURA KOZO 나까무라고조 KANBE MAKOTO 간베마꼬또 KISHIMOTO SATORU 기시모토사토루		
发明人	쓰다가즈히꼬 나까무라고조 간베마꼬또 기시모토사토루		
IPC分类号	G02F1/13 G02F1/1343 G02F1/1335		
CPC分类号	G02F1/134336 G02F1/133555		
代理人(译)	CHANG, SOO KIL		
优先权	2002243947 2002-08-23 JP		
其他公开文献	KR100553286B1		
外部链接	Espacenet		

摘要(译)

形成相同像素的透明电极和反射电极彼此交叉。反射电极配置为跨越栅极总线 and 源极总线。使用它，当在没有电连接的状态下相邻的透明电极和反射电极在指示侧法线方向上看时，它被设置为接触。它排除了区间像素之间的域。因此，在显示屏幕中，可以减小像素之间的域所占的比率。由此改善了像素孔径比。并且可以提高光学使用效率。反射电极，透明电极，透明隔离层，透明基板，像素之间的区域。

