

, 213 . 37A-C 36 a, b, c
(210b) (210a) (204) (203) (210a-210c)
, (204) , a , b ,
c , 가 , 가 , 3
8A-C (205) , 가
, (, IPS :) , 가
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, , 가 가
, 100 , 10 100
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, 100 , 10 100
, ,
, 가 100 , 100 300
, 2 2
, 2 1 2
, ,
, 2 가 가 (TN)
, , 가
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, ,
가 , 가 , 가 ,
, ,
(1)

1A-B 1 (TN) 1A
 1A-B 1B
 1A-B 1 2 (TFT : Thin Film
 Transistor)(5)가 .50 TFT
 2 1 (3) (8) (102) 가 (100) (11) (10) (3) (4) (101) (103)
 FT (6) 가 (7) 가 T
 (6) 가 가
 (2)
 3A-C 4A-B 2 (hatching) (2) 3
 A-B (3)
 3A-C 4A-B 1 2 (5)
 가 .50 TFT (2), (3) (3) (1) (4)
 (4) (bus bar)(40) 11 (TFT
) 3C 가 (3)
 3A-B 1 (4) 2 (12) (40) (7)
 (7) (3A-B) (4A-B)
 (6) (7) 가 가
 (40) 2 (3) 가 가
 (8, 9) 가 가
 11A-B (40) (3)
 가 가 11A-B 가
 (8, 9) 가 가 가
 가 가
 3A-B (8, 9) (7) ()
 (40) 가
 가

3A-B

(40)

(6)

4

(3)

(3)

5, 6

3

5

(3)

(2)

2

(40)

(3)

(7)

5

(4)

6

(3)

(6)

(110, 111)

(7)

(3)

1

(3)

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(7)

1

(3)

(40)

가

3, 4

(斷線)

가

가

가

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(6)

(6),

가

가

(4)

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4

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(3)

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(40)

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(7)

(8)

(6)

(1)

(3)

(110, 111)

가

(40)

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가

(5)

9, 10

5

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(3)

4

(7)

(2)

(1)

(3)

(9)

(10)

(6)

(8, 9)

(8, 9)

가

가가

10

가

가

(6)

12A-B

6

12A-B

1

, 2

(TFT

)(5)가

. 50 TFT(5) (2) , (3) TFT(5) (3) (1) , (4) (3) (4) , (3, 4) 가 (3) (4) , 12A - 가 13 . 13 100 , 104 (3) (4) . 103 2 , (100) (101) , 102 , (3) (4) , 13 (102) , (100) 가 () 100) , (100) 가 (3) , , 가 (4) (40) (40) 12 (3) 가 , , (4) (4) 1 (3) (40) 2 (4) (7)가 . , (40) (7) (7) (3) , H , 12A (7) 12B , , (3) 가 (40) 가 (7) , 가 가 (40) , 14A-B (40) , 14A , 14B (3) , (3) , 가 (7) , 가 가 (40) , 14A (3) , 14B (3) , (14A) (14B) (40)가 (7) (331) 가 , 가 , 가 , (331) 가 (7) 가 , 가 , 2 , 가 2가 , , (309) (7) (2) 12A-B (12A) , (12B) (40) (7) () (3) (4)) , (7) () 14A-B (1) , (1) 가 (40) 가 , 가 (1) 가 가 가가 , 가 (가 가 (7)) (15A-B 7 (3) (2) , , 6 , (7) (3) , , (4) (40) , , (15B) (1) 5A) (15B) (341) (7) (3) , 6 (7) (3) (4)) , (7) , , 14 , ,

(1) 가 , (7)가 , (1) 가 (40)
 가 , 가 (7) (3) (40) 가 ,
 가 , 가 12 가 (3)
 , (7) 가 (3) (40)
 , (40) (40) 가 , 6 ,
 (8) 8 , (16A) (16B) 6 가 (가
 (3)) (7) (40) , 가 가 (7') (40) (가
 , (7) , 가 (40) (7) (352)
 (351) (7) (3) , (7) (40) .
 4)) (7) (7) ((3) ((,
 , 14
 , (7) (5) (40)
 , 1 , 가
 , (1) (7) 가 , (1) 가
 (9) 9 , (3)
 (2) ,
 , (40) (7) , (17A) (17B)
 (3) , (40) (363) (3) 가
 , (7) (40) (7) (362) (7)
 (361) (7) (40) . (7) (3) . (3)
 (4)) , 14
 , (1) (7)가 , (1) 가
 (10) 10 , (1) , (1) (3)
 (18A-B (7)) (40) (7)가 . (1) (18A) (18B) 가 . (3)
 (7) (3) (1) (371) (3) ,
 , (1) 1 가 , (3) (371)
 (7) 가 ,
 , (372) (7) (7) (3)
 (4) (1)) (7) ((3)

14
(7)가 (1) , 6 9
가 , 가
(4) (40)
가 가
(11) 11 (3)
19A-B (2)
10 (7) (3)
(1) (19A) (19B)
(3) 10 가 (1) (1)
(381) (7)
(1) (382) (3)
(3) (4)) (7)
14
(7) (1) (4) (40)
가 가
20A-B (7) (7)
(12)
21A-B (3) (7) 12 (21A) (21B) 10 (1)
(393) (1) 가 (392) (7)
(391) (7) (3) (1) (3)
(4)) (7)
14
(7) (3) (1)
10 (3)
가 , 가 (7) (1) , 가 (40)
가 7
(13)
22A-B (2) 13 (3)
(1) (7) (22A) (22B)
(3) 가 (3) (413) (1) (413) (1)
(7) (412) (7)
(411) (7) (3) (7) (7)
(4)) (1) (3)
14

(7) (1) (40) , 가 . , (3)

(23A-B 14) 14 . , , (3)

(2) , , ,

(3) (40) (7) (3) , (40) , 23B

(3) 가 (424) , 23A (40)가 (3) .

(40) . 23B (40) 가 (423) , 23A (3)

(23B) , (421) (7) (23A)

(3) . (422) (7) (3)

(40) . (7) , (3)

(4)) , 3

2 ,

가 . 1 , 가

가 가 . 2 ,

23 (7) (3) 24B (1)

24A-B (1) (3) . (3) 가 (134) , 24A

(24A 15) (3) (1) 가 (133)

(25A-B 1) 15 (40) (3) , 26A-B

(7) , 가 (103)

(Al) 1 CVD (SiNx)

1 1 , a-Si . CVD TFT , 1

2 2 ,

2 가 . , 1 TFT

3 , (3) (40) ,

가 . , 1 가 . ,

(15 16) (7) 1 2 2

(SiNx) . 1 (SiOx), 2 15

가 , 2 ,

(27A-B 17) 가 17 , 28A-B

15, 16 가 (7) ,

가 , (3) (40) 가

15

(57)

1.

가

가

2.

1 , 100 , 10 100

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1 ,

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4 , 100 , 10 100

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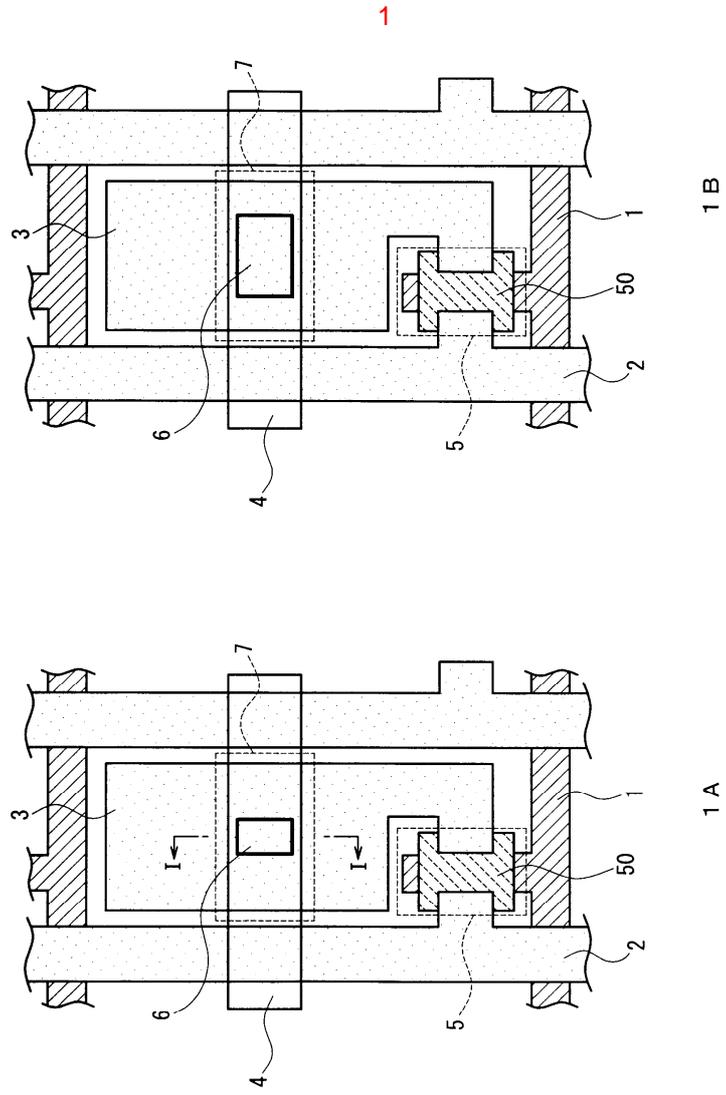
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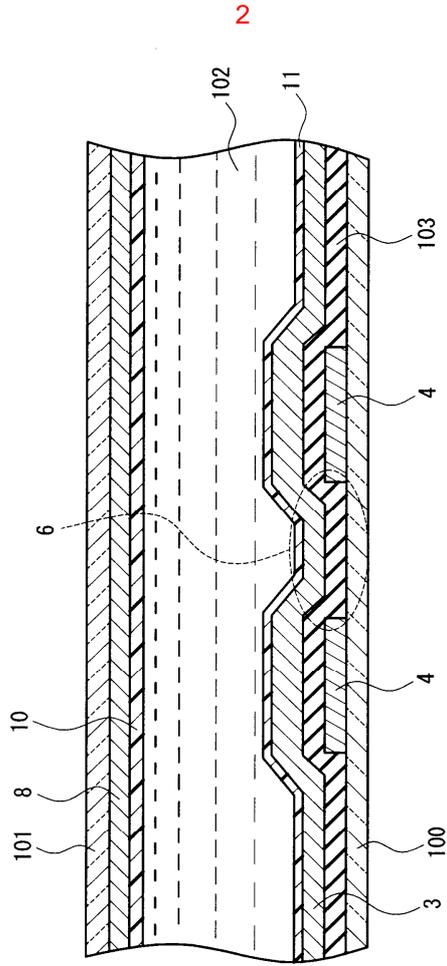
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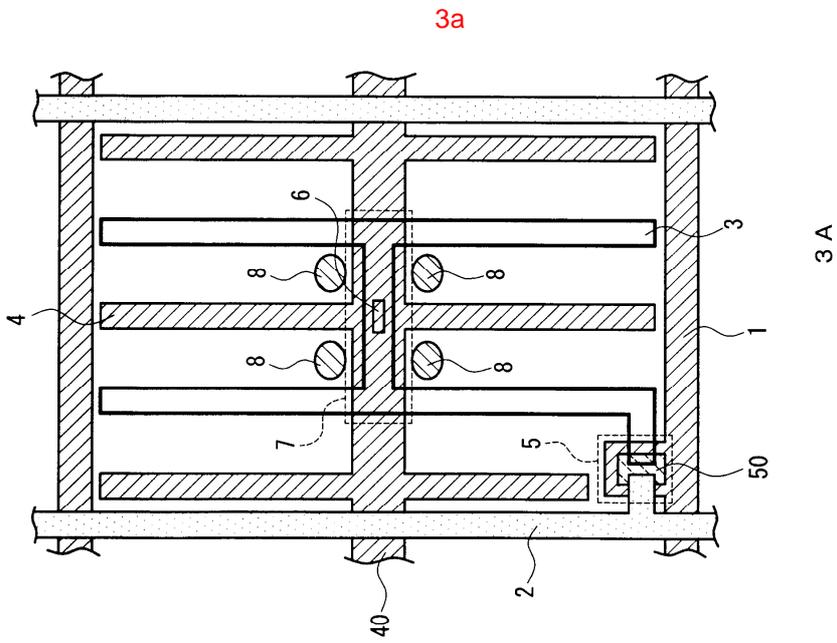
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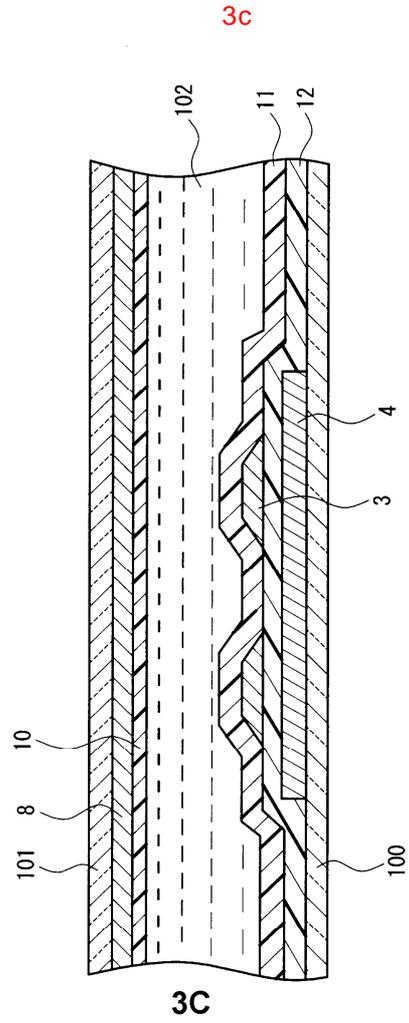
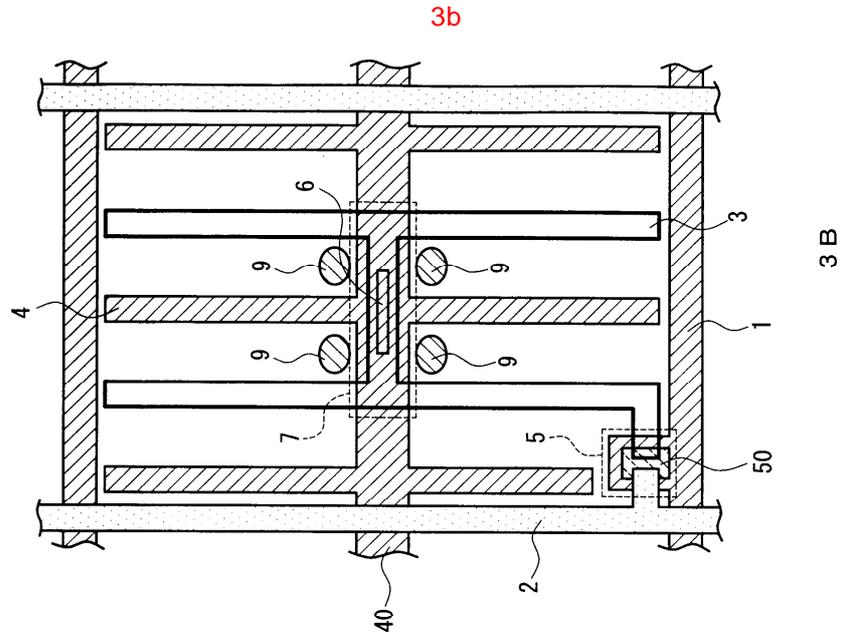




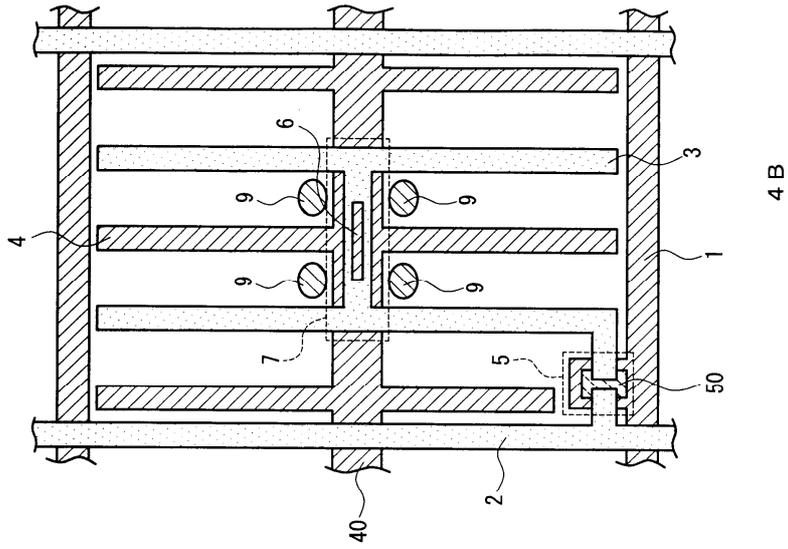
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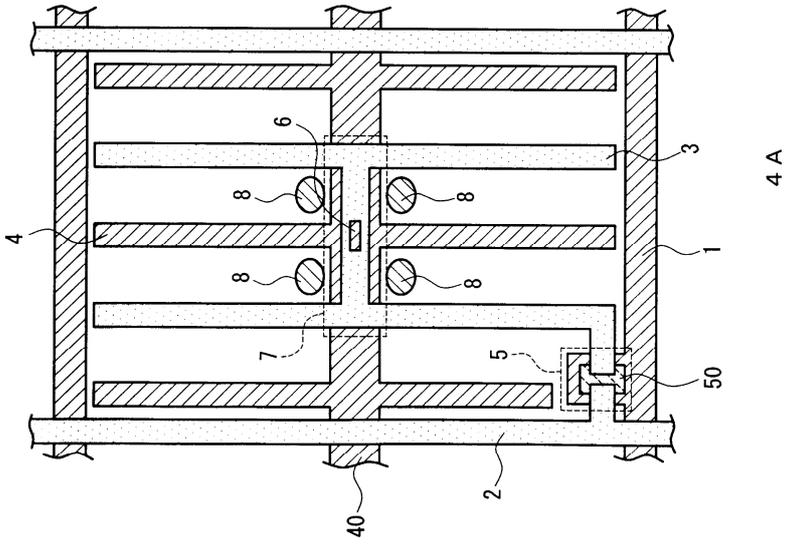
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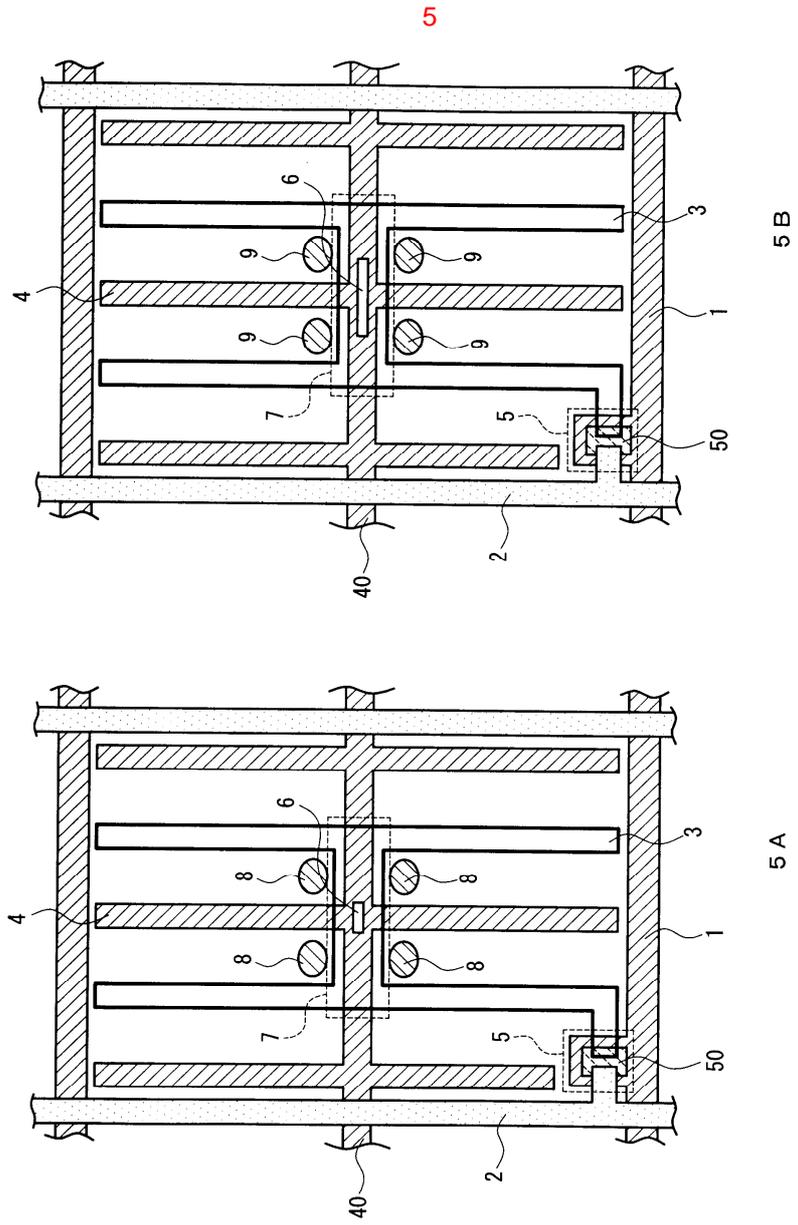
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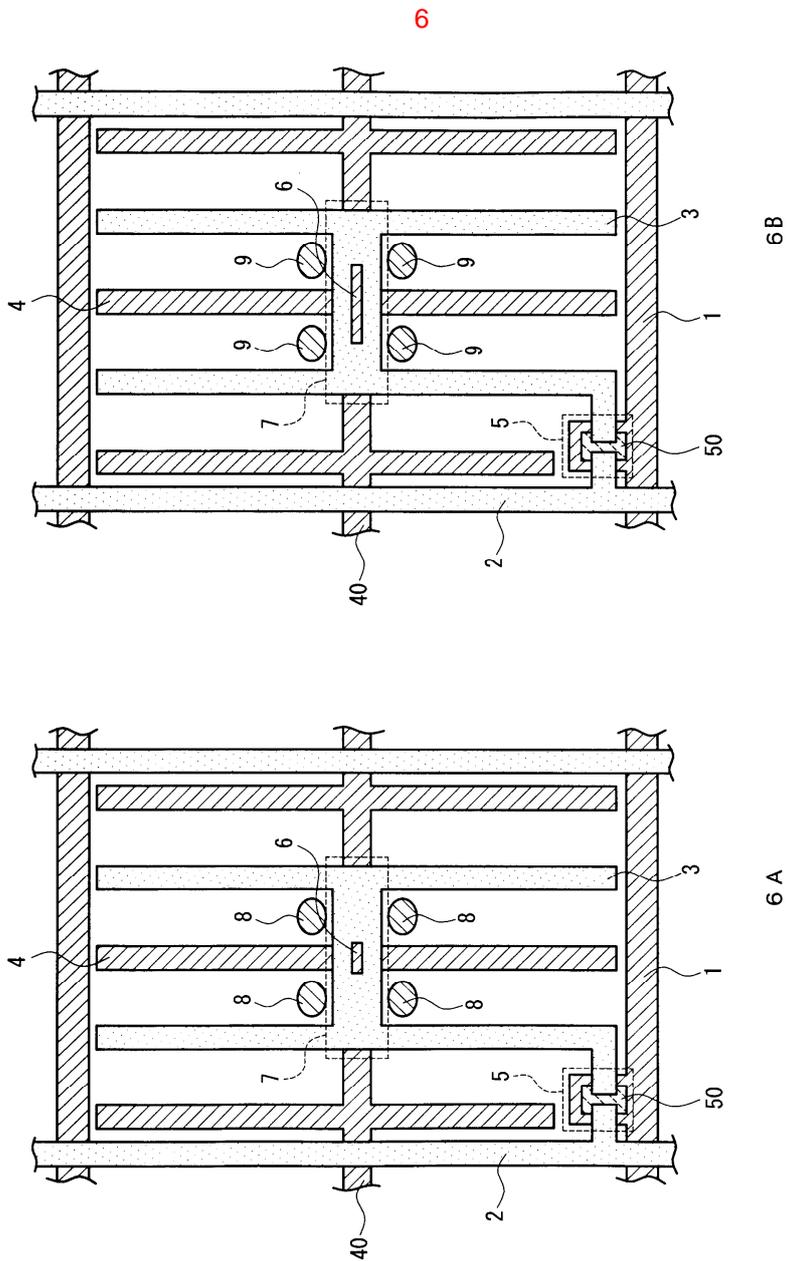


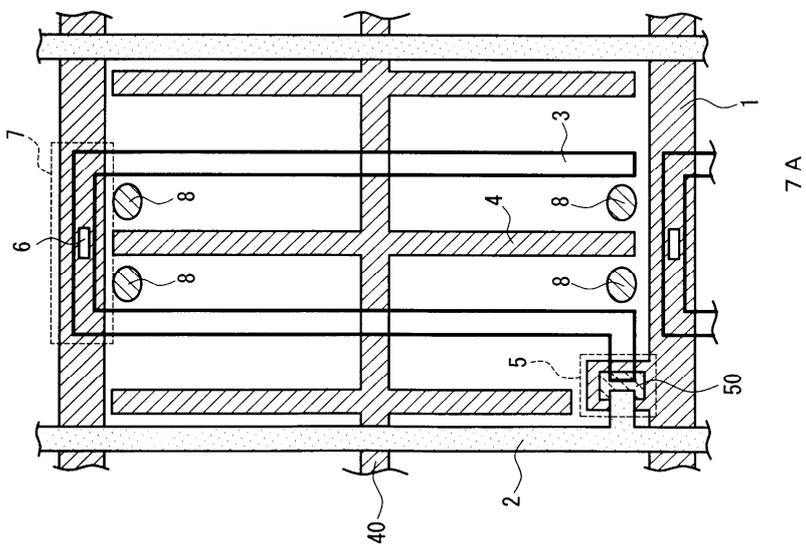
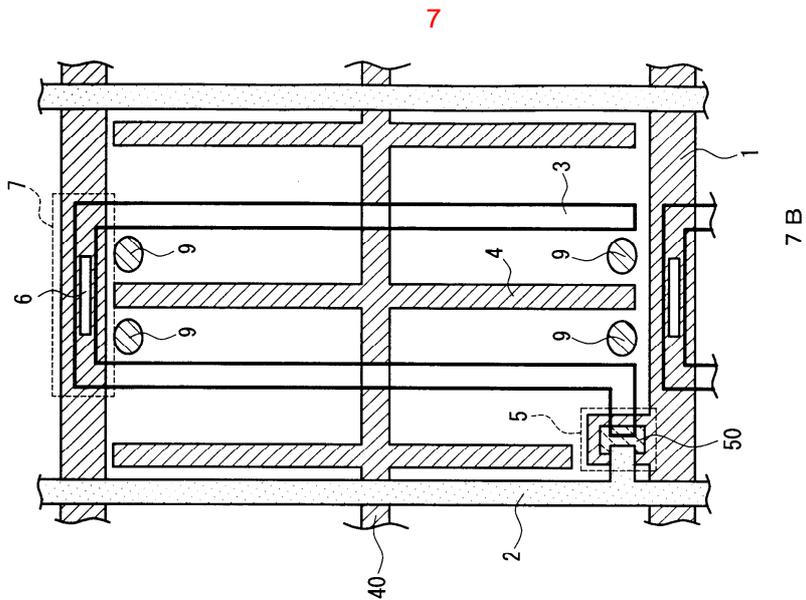
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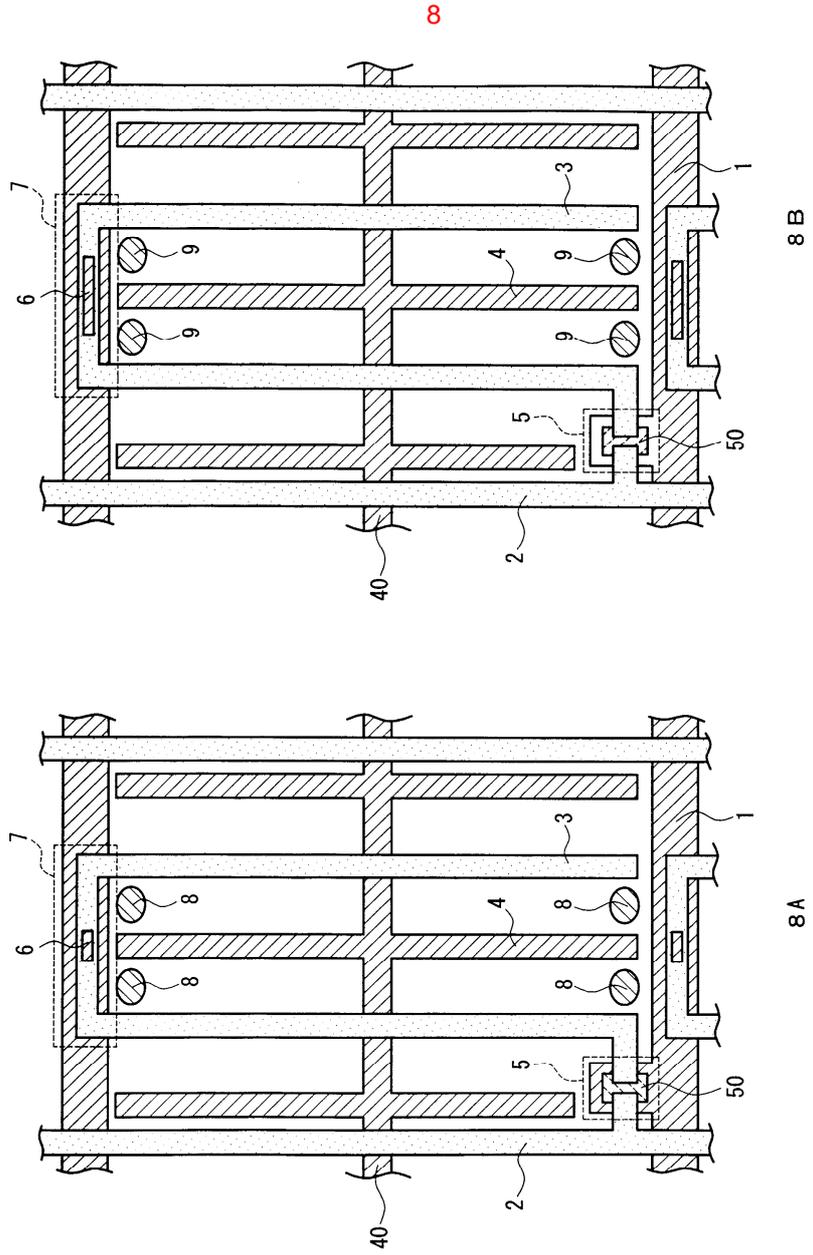


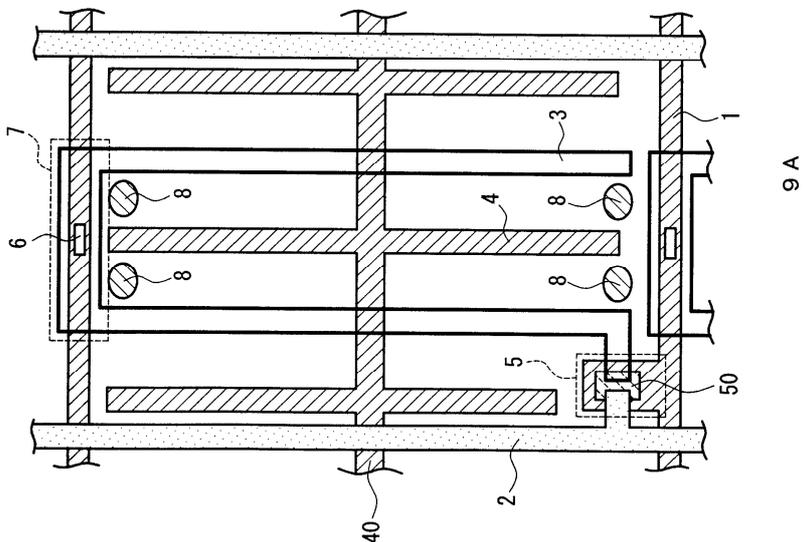
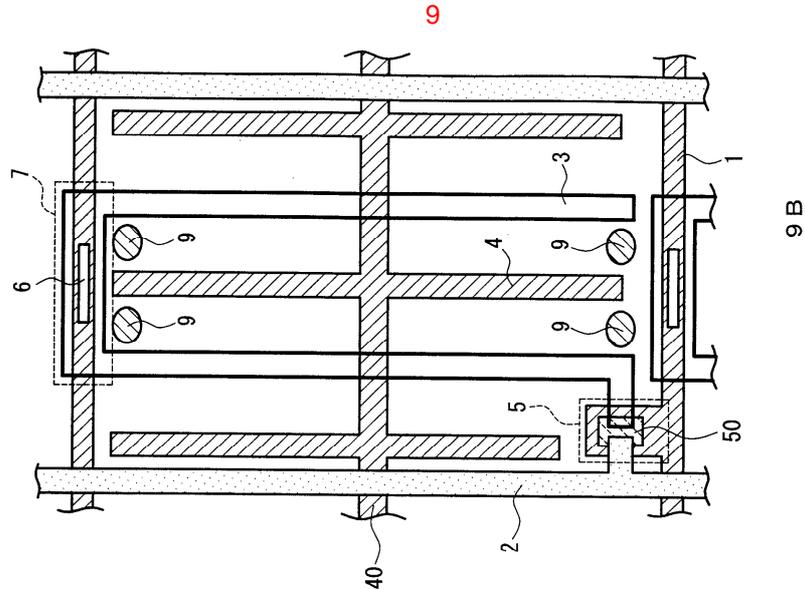
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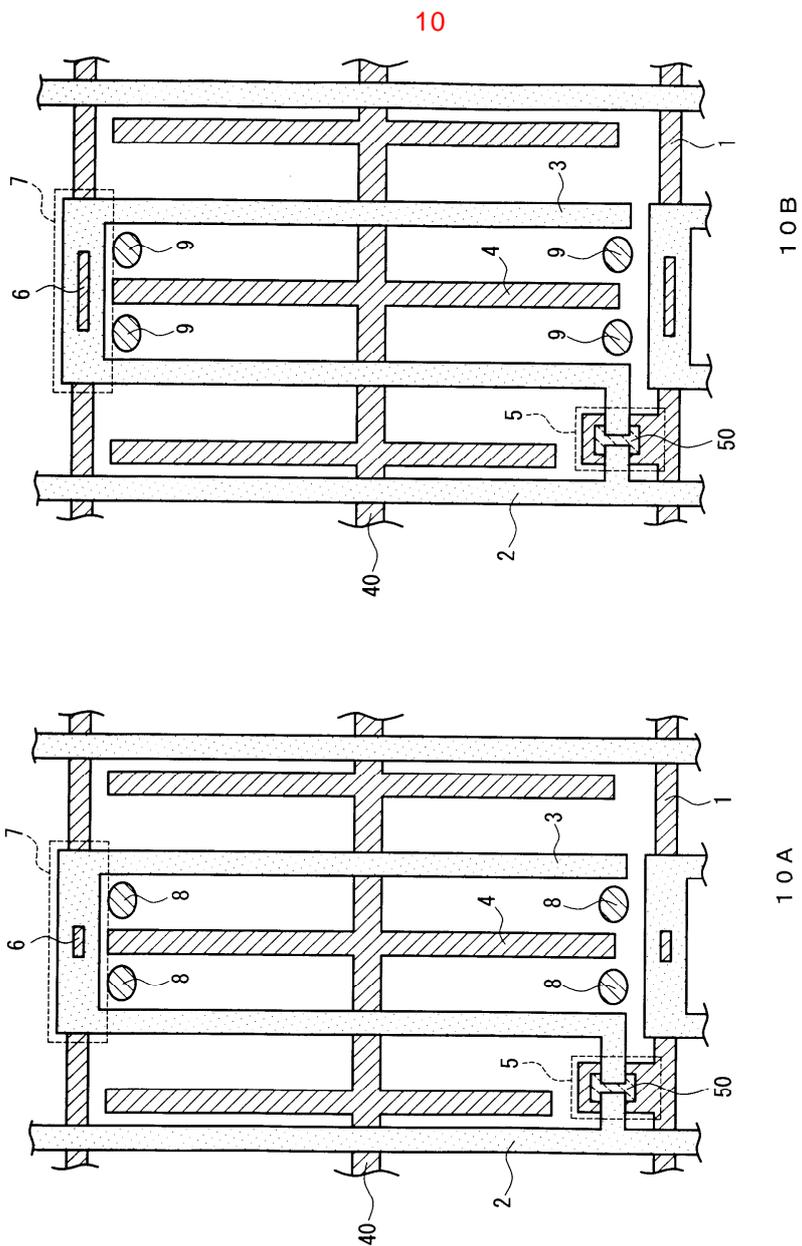


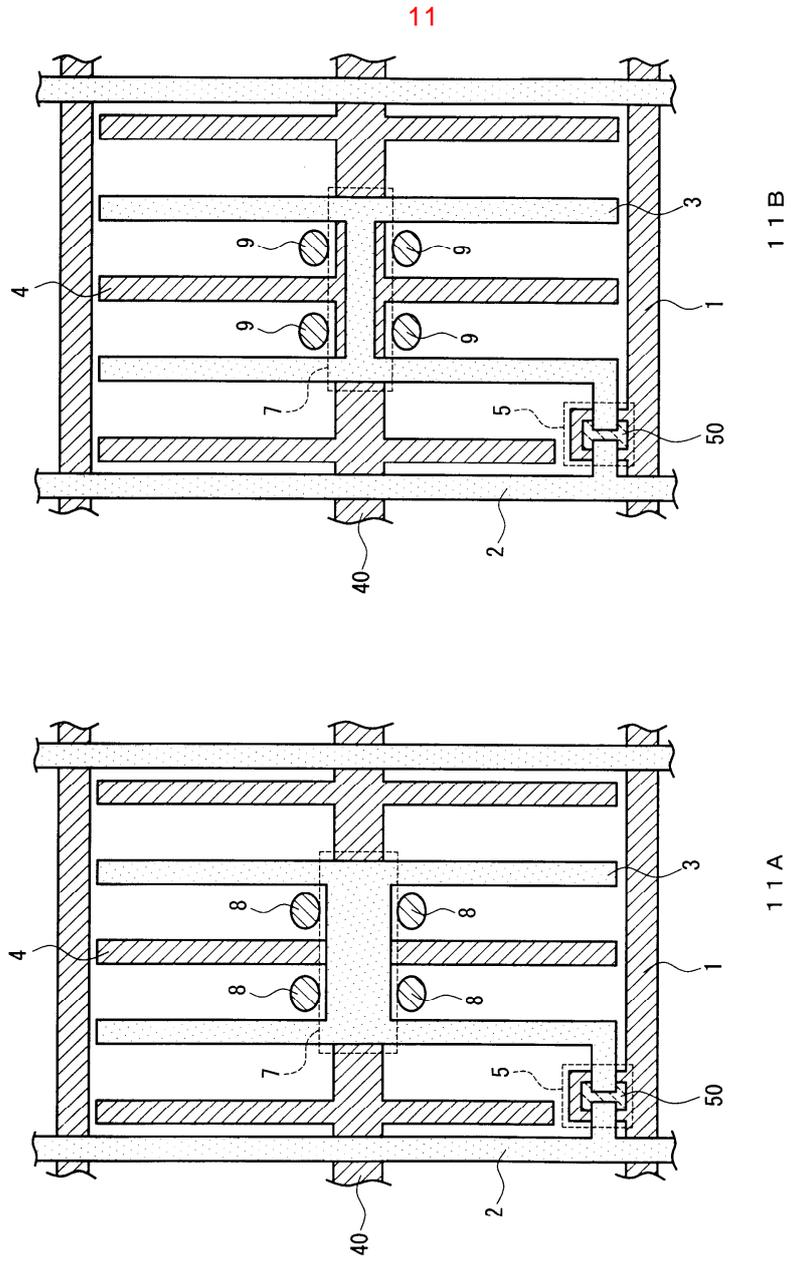




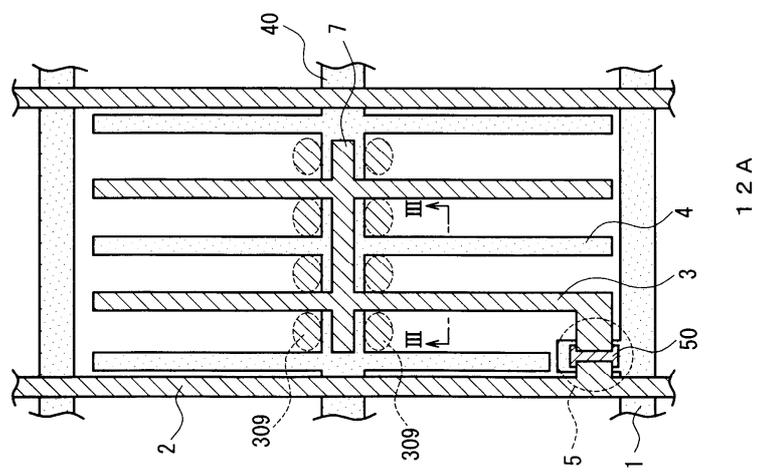
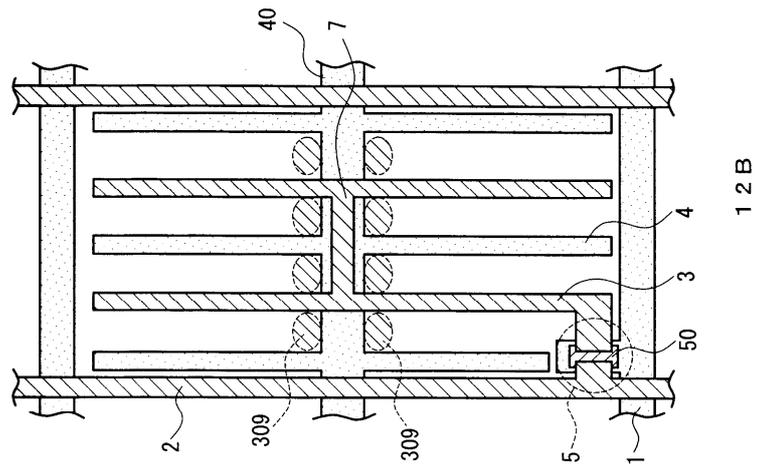




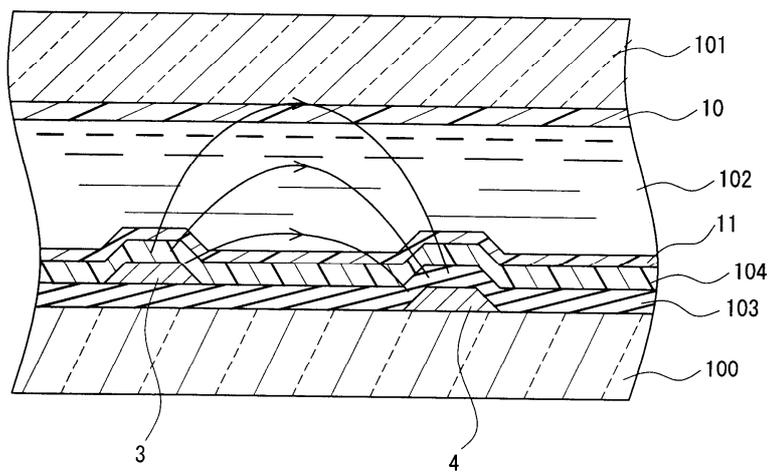




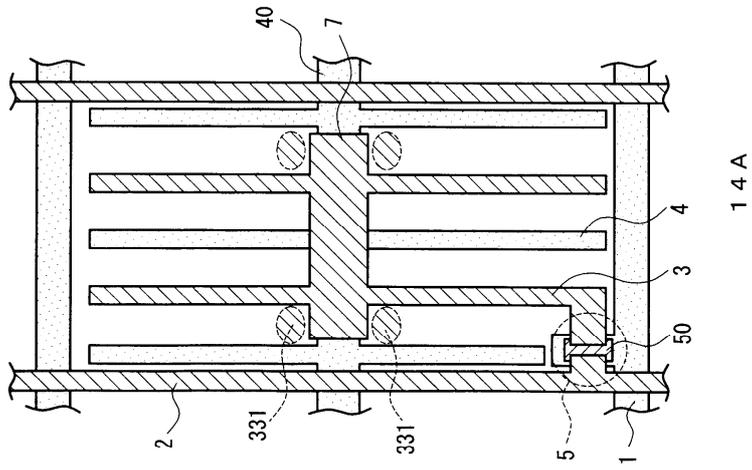
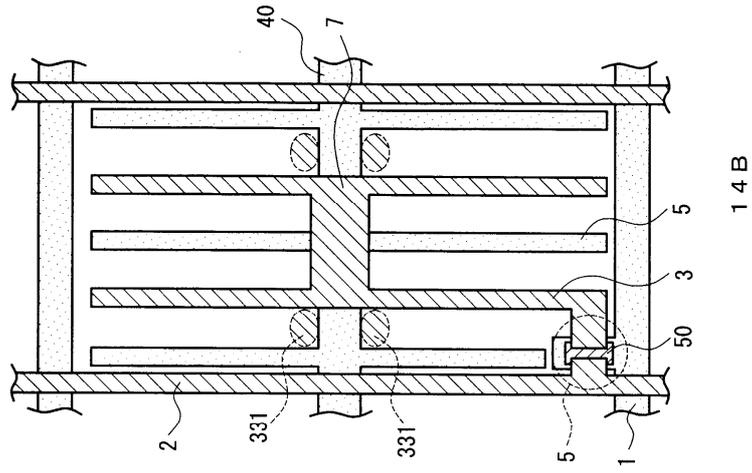
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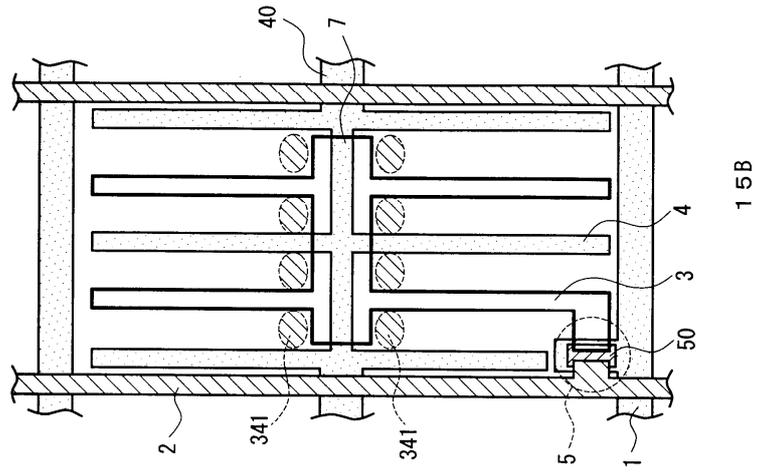
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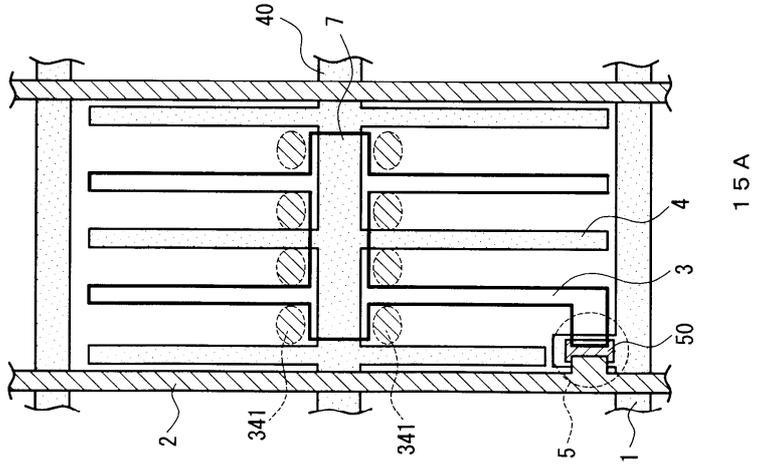
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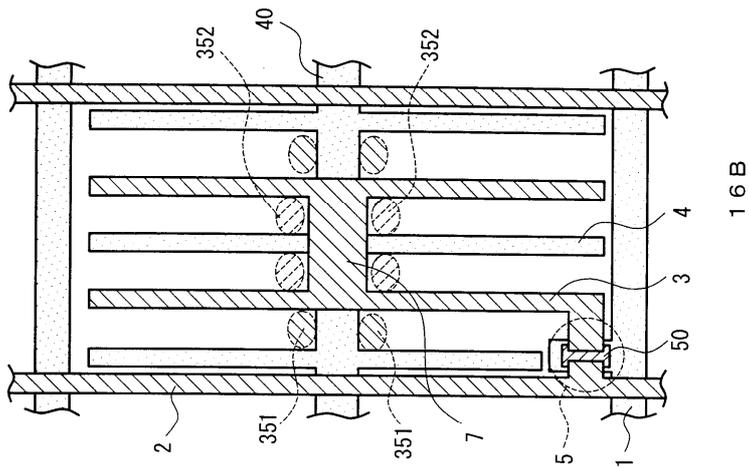


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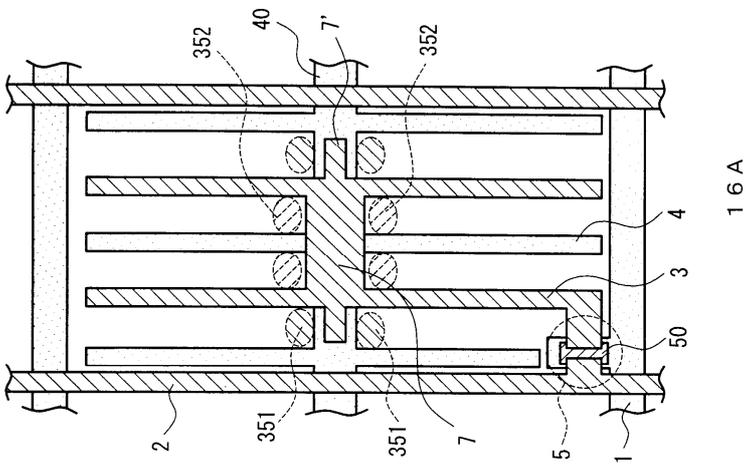


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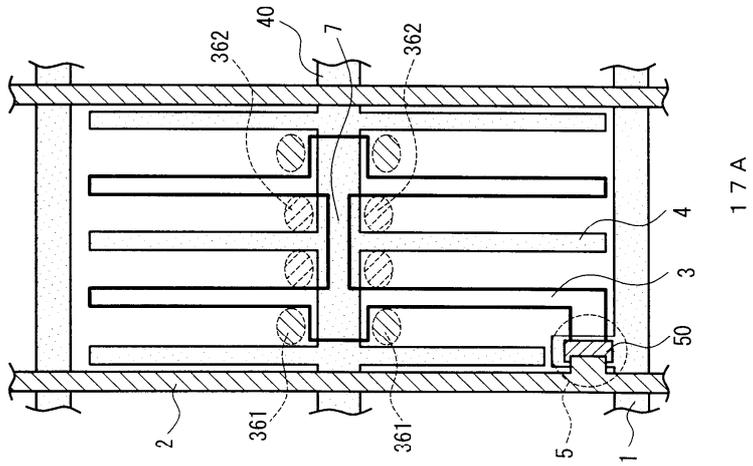
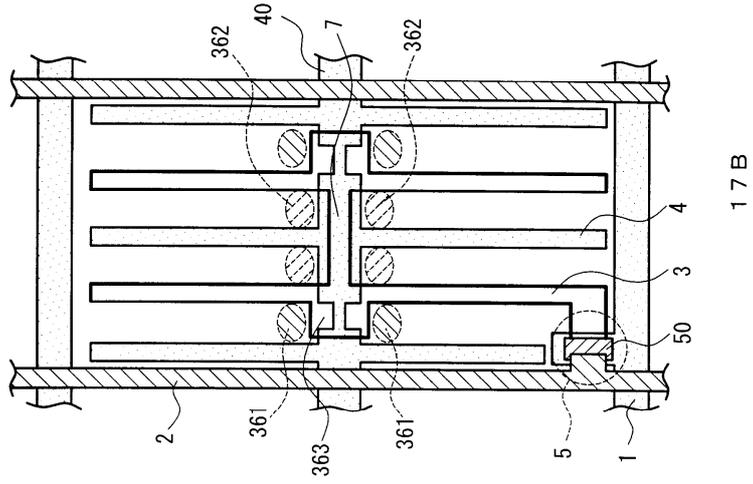


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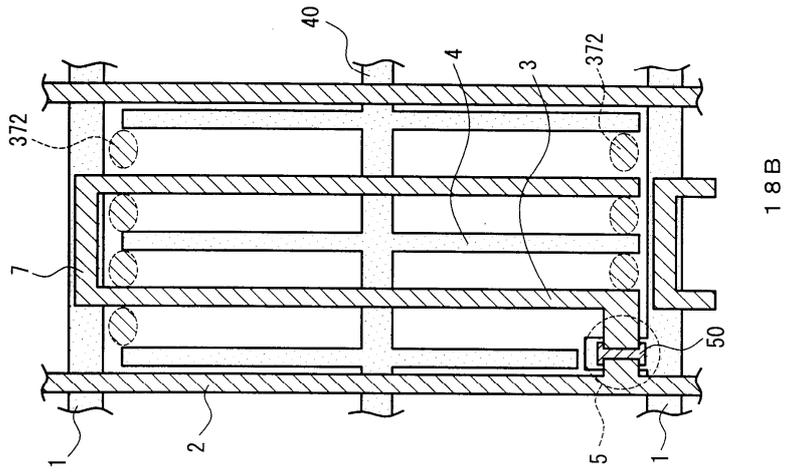


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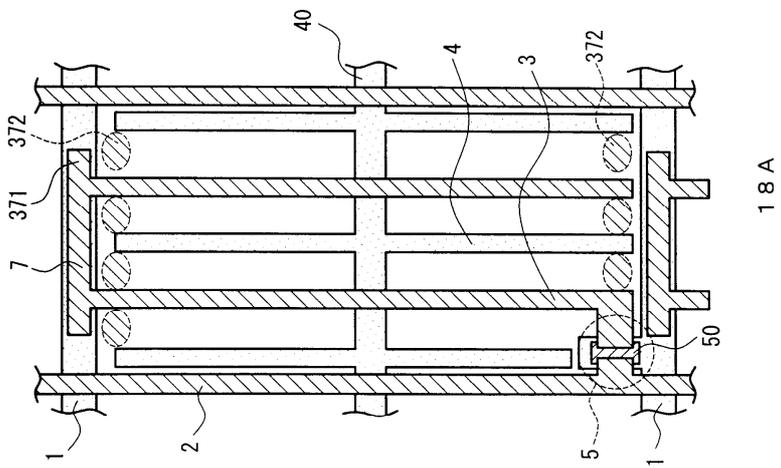
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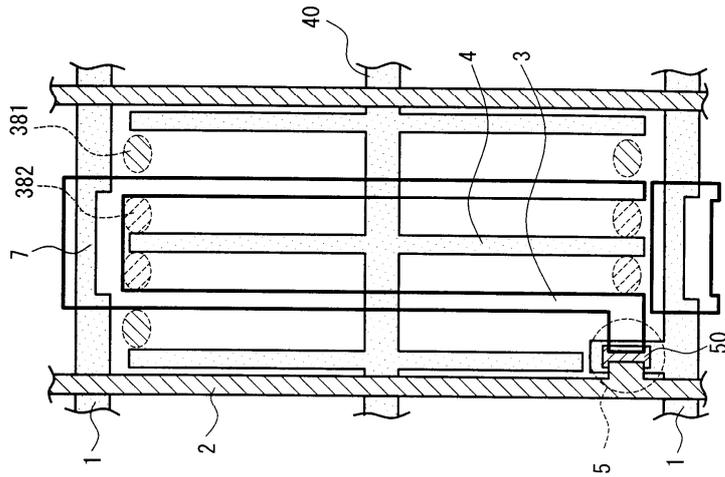


1 8 B

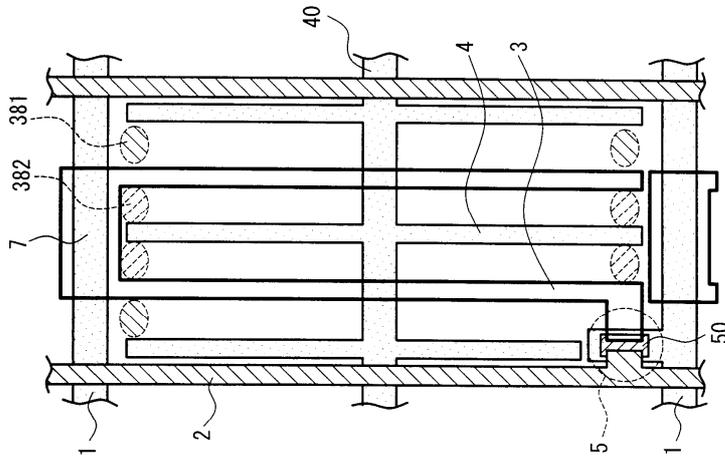


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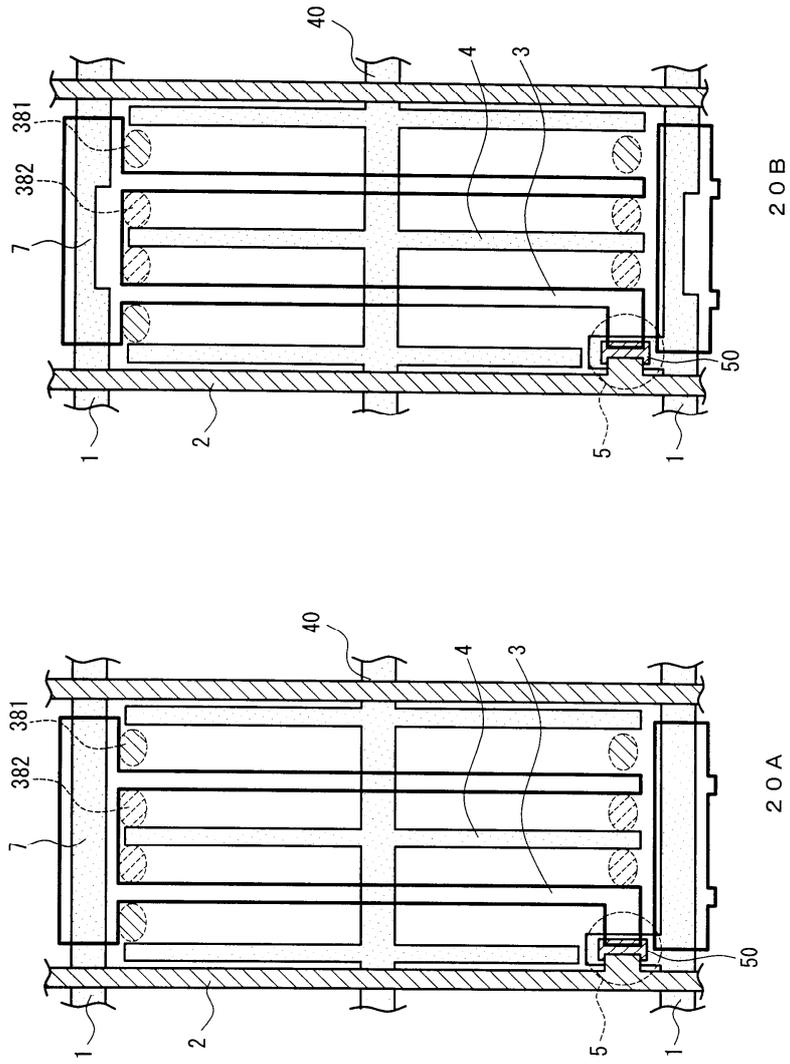


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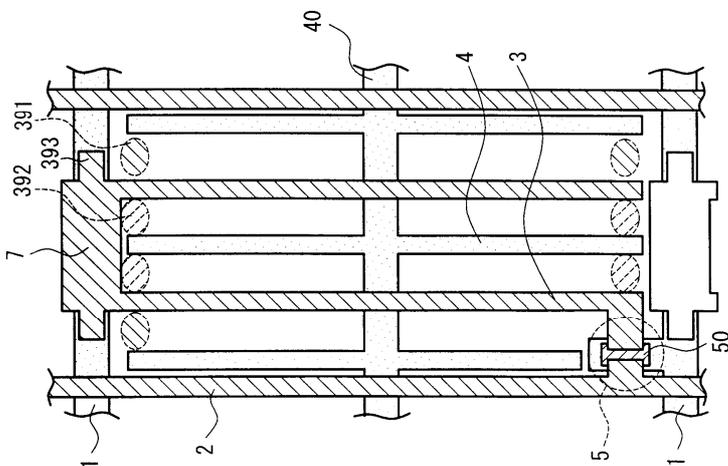
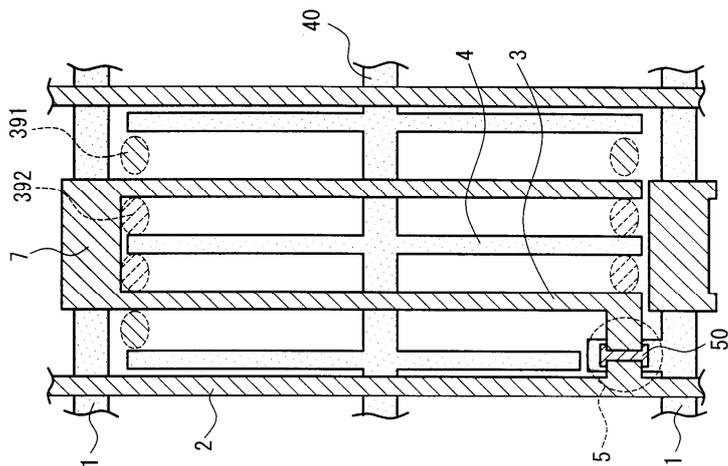


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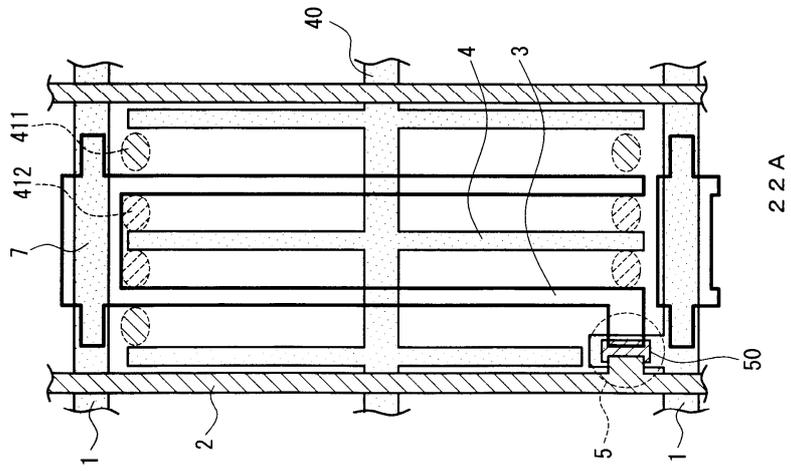
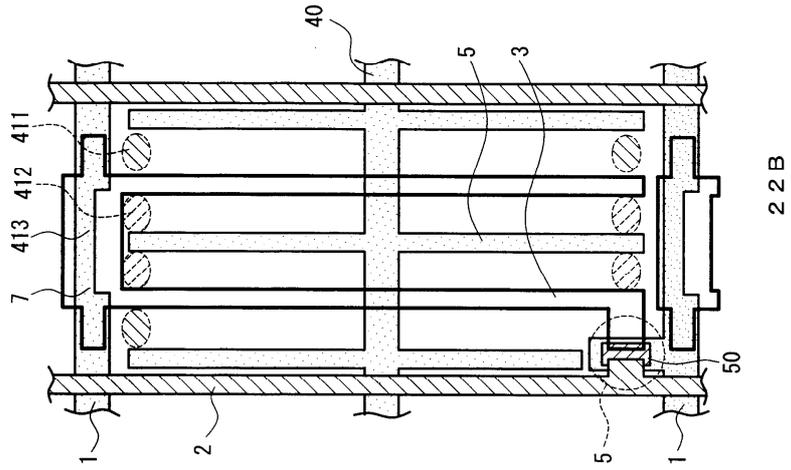
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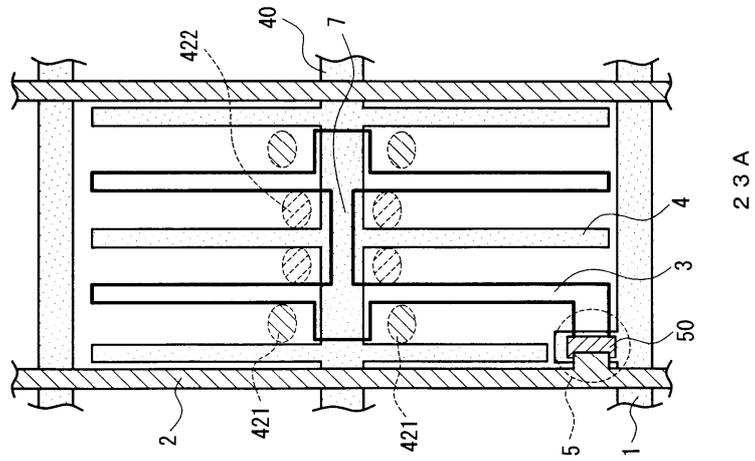
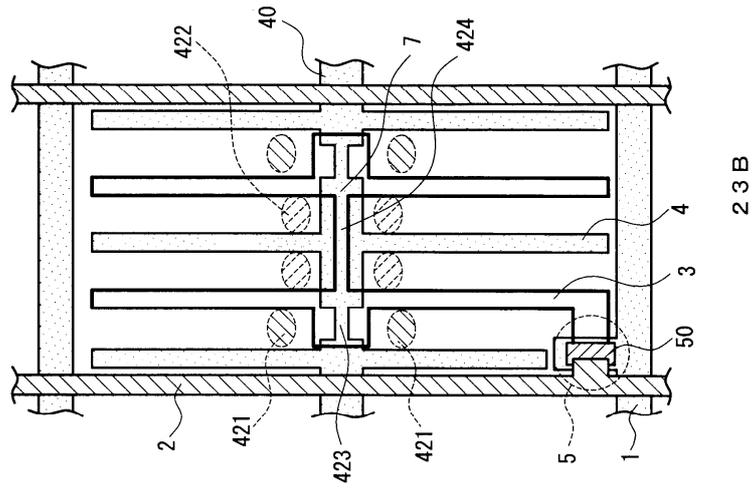
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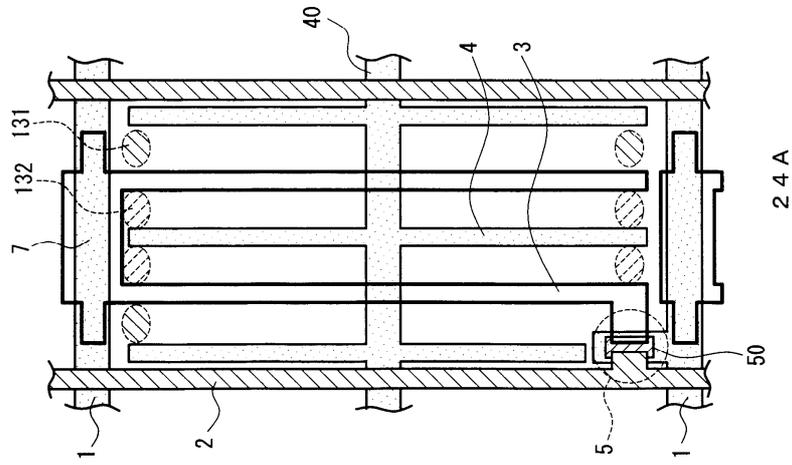
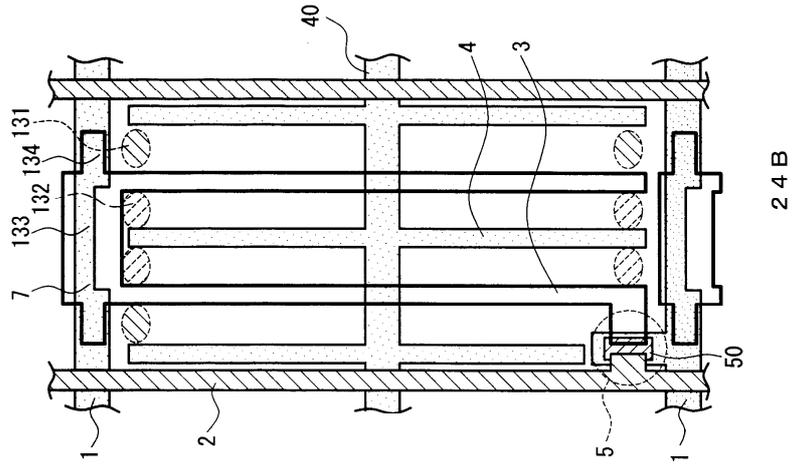
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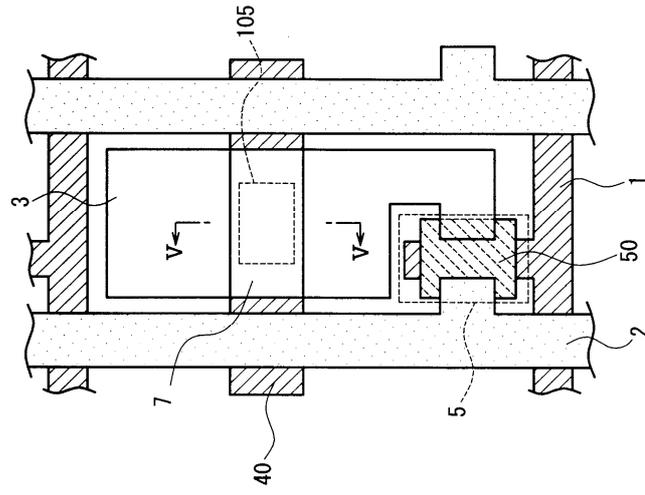
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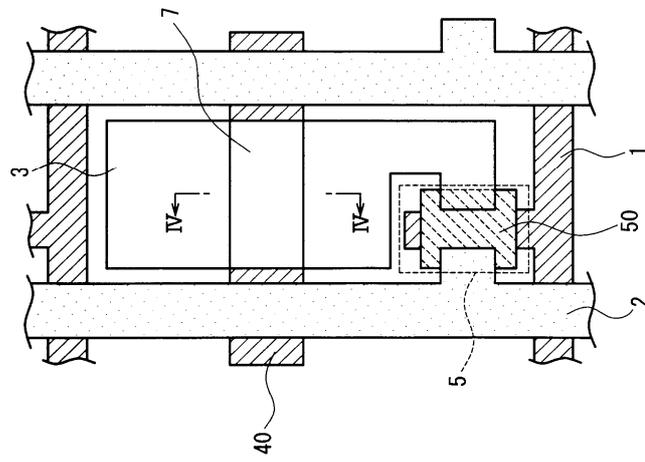
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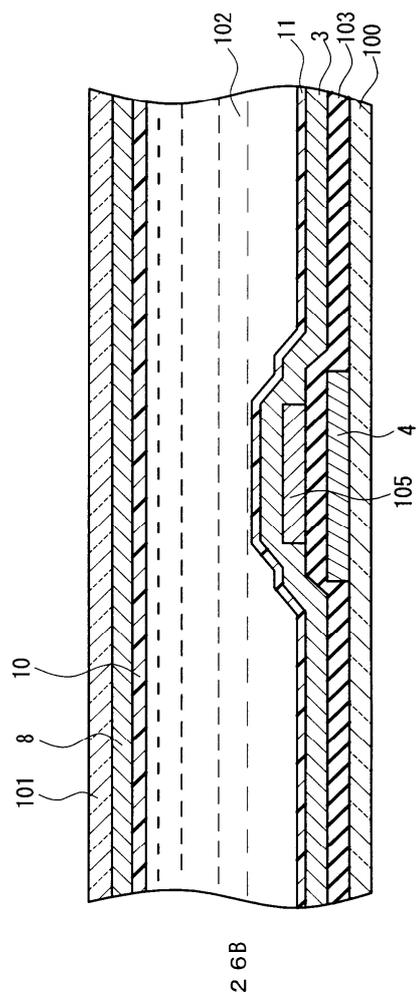
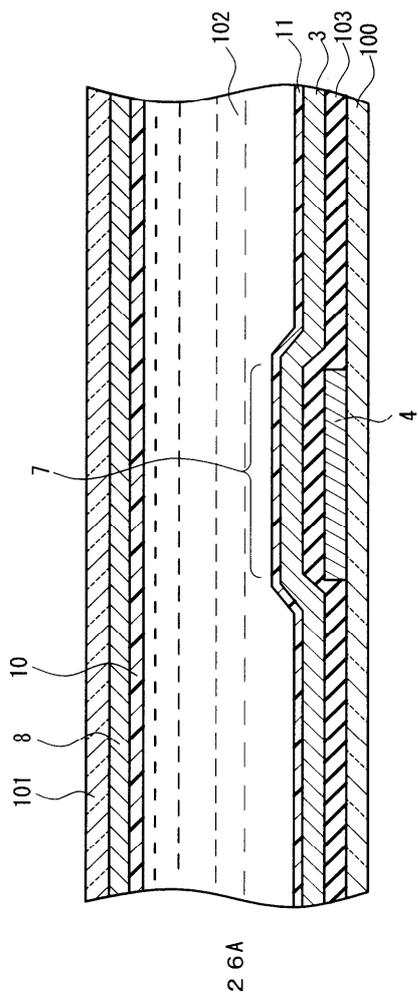


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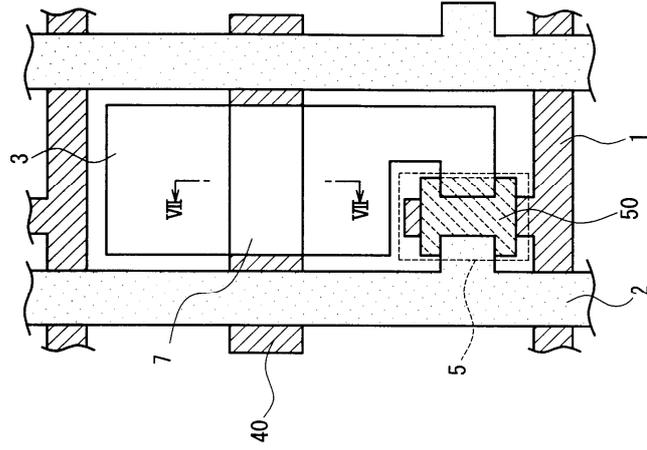


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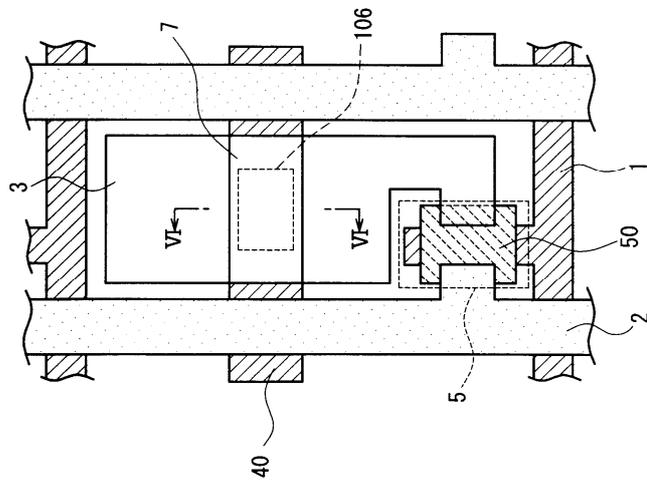
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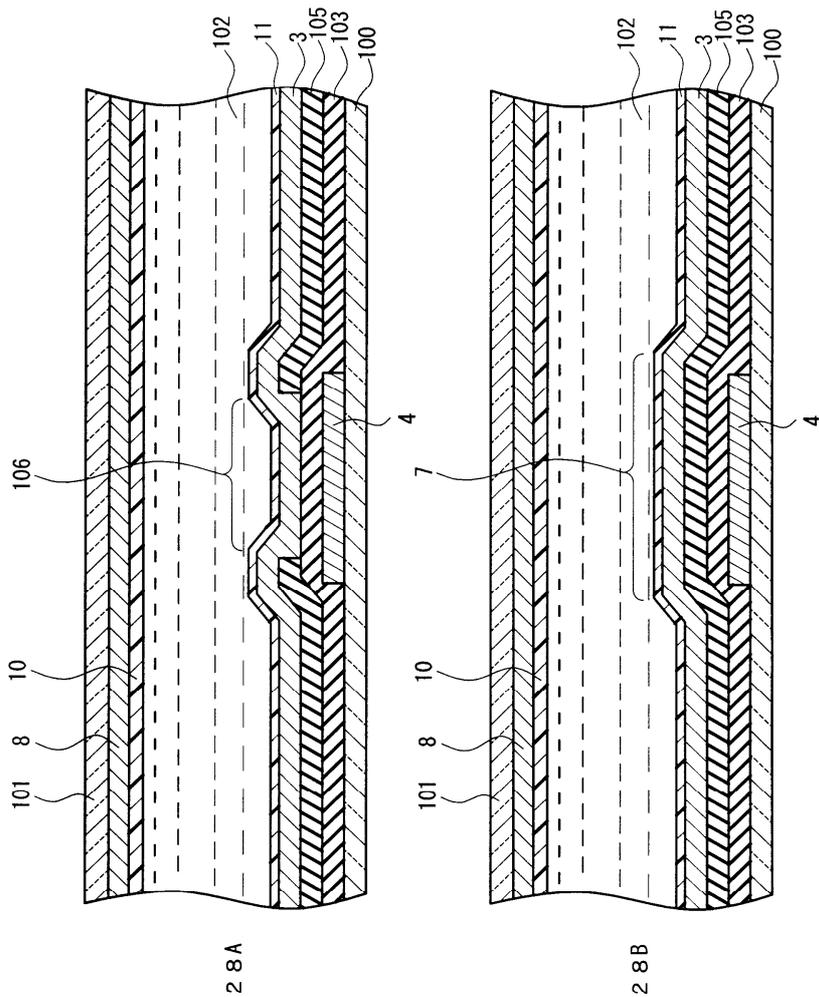


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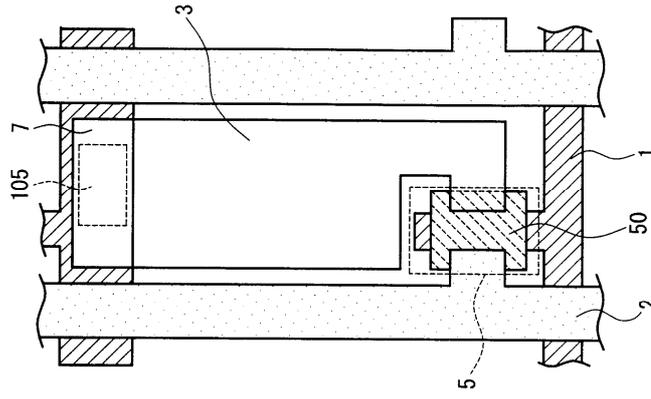


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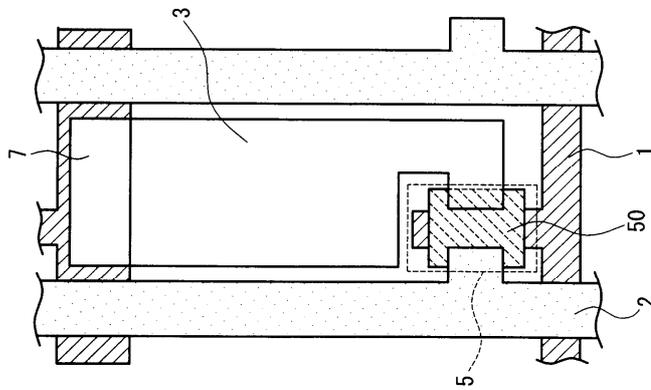
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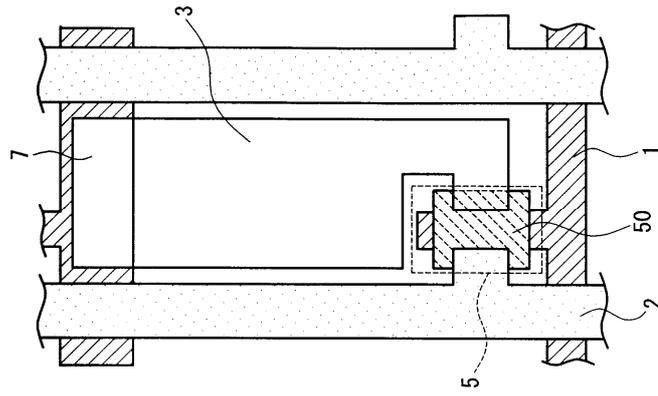


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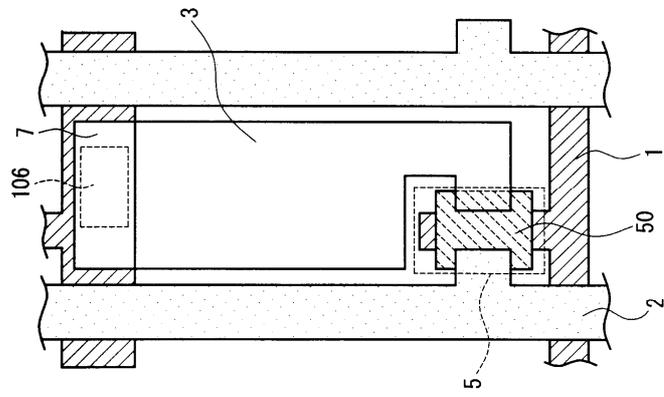


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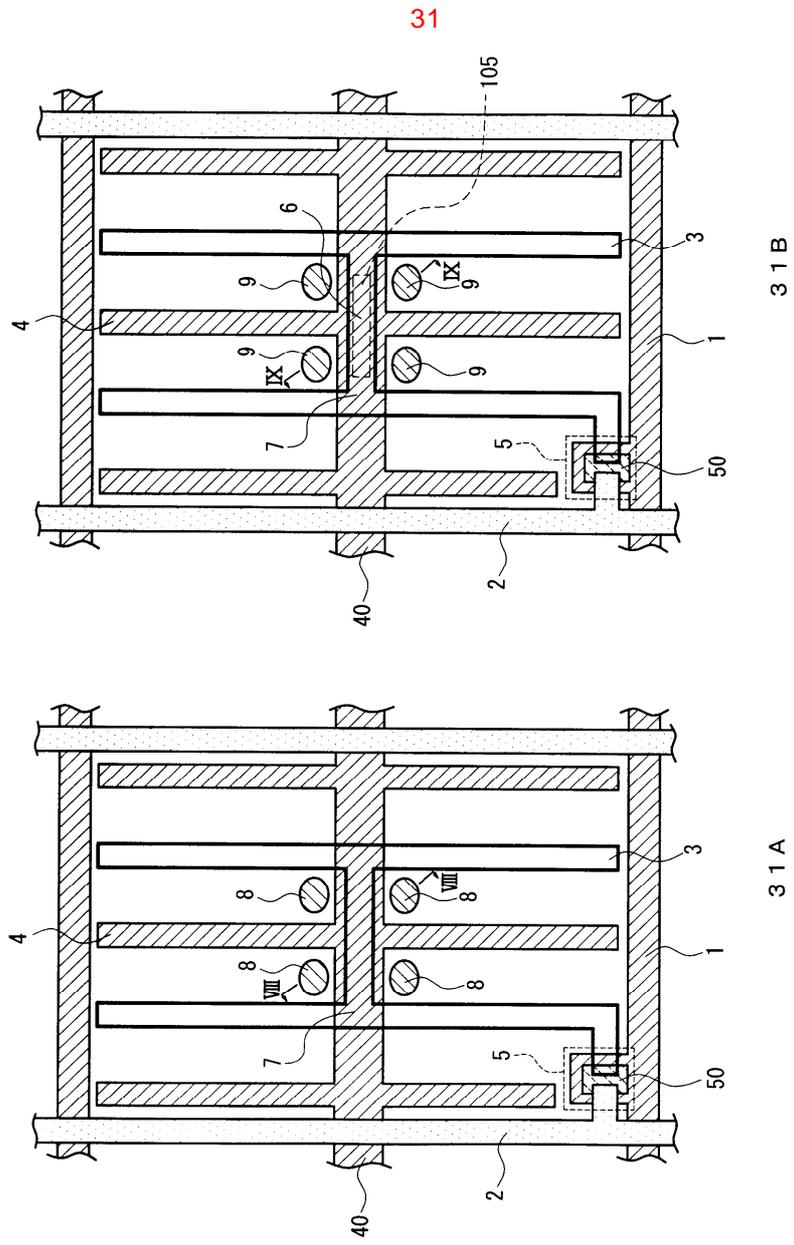
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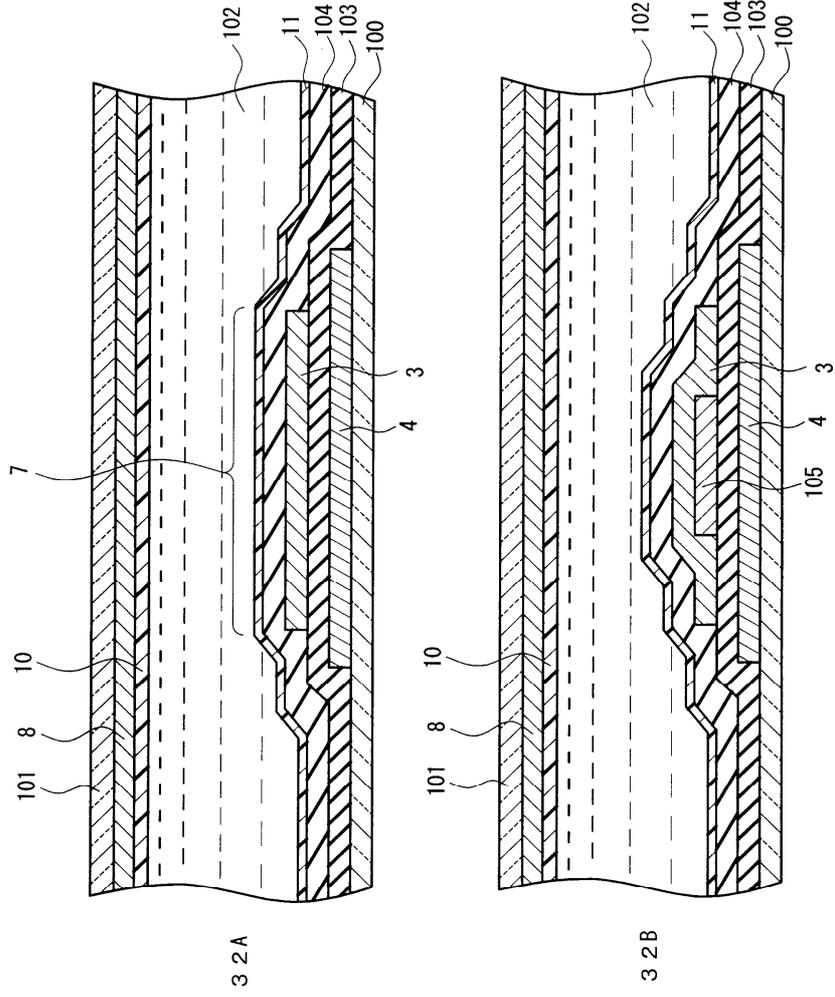
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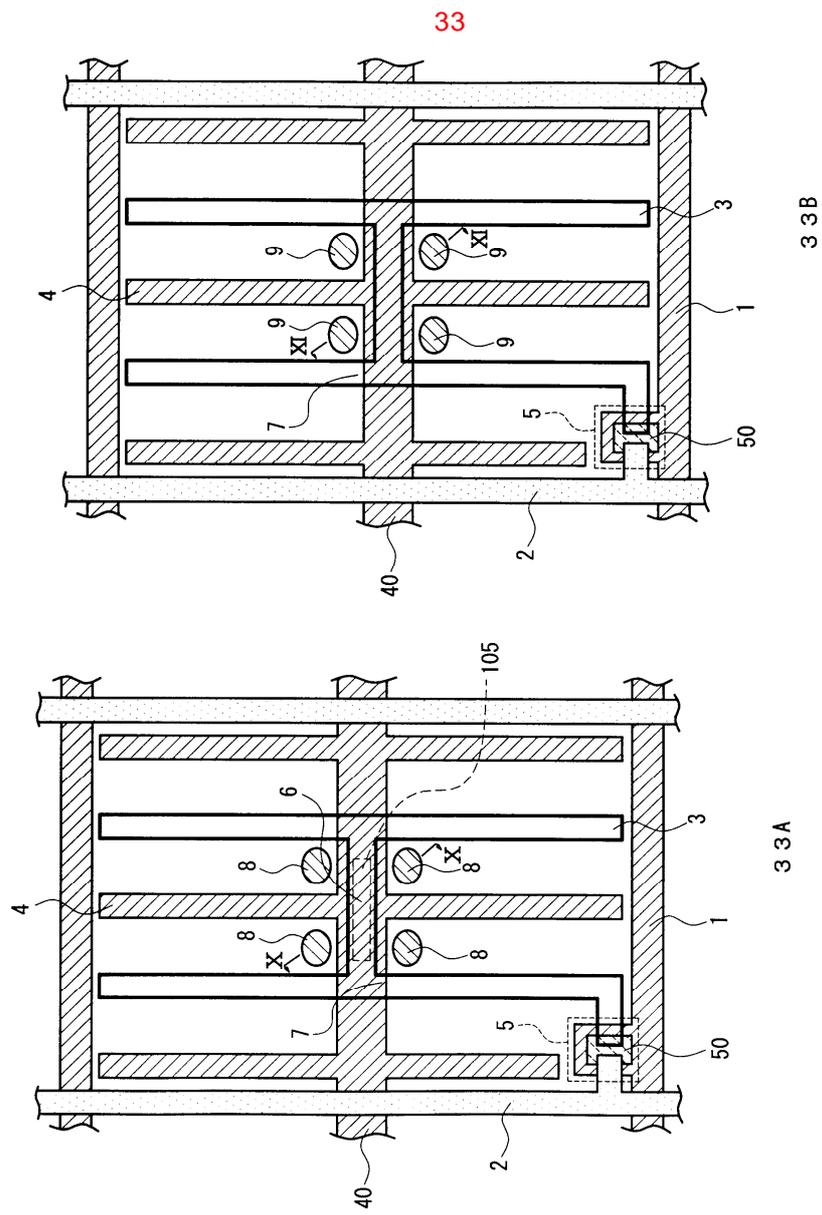


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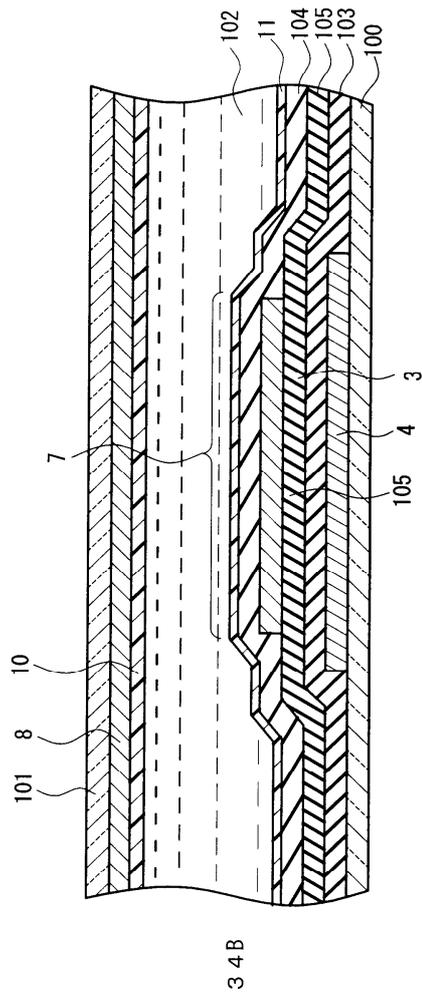
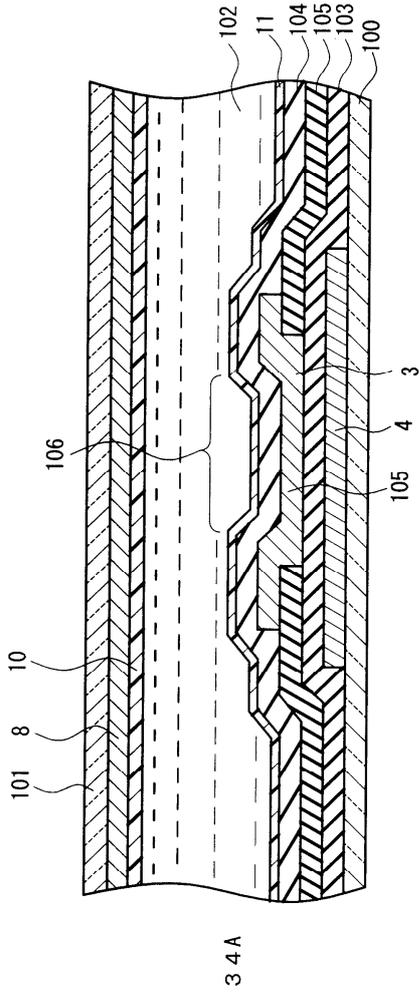


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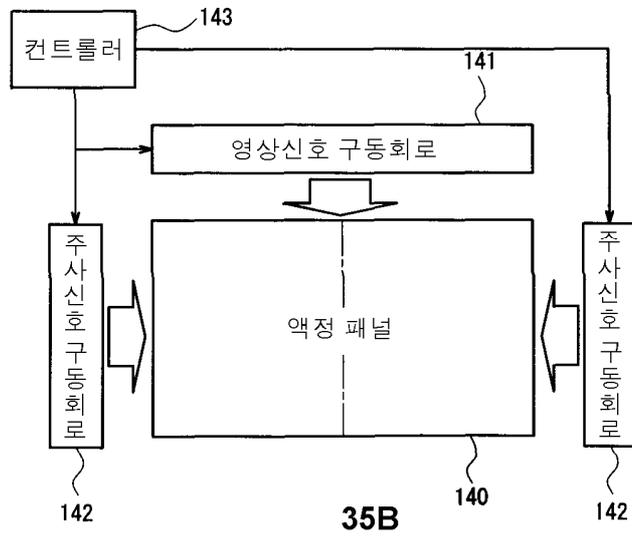
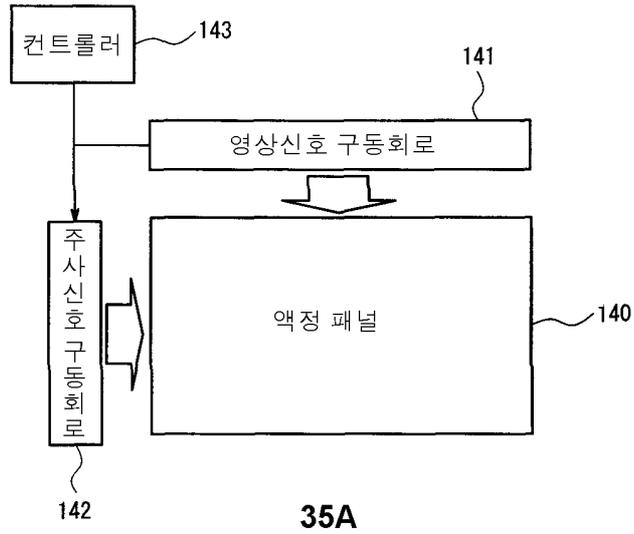




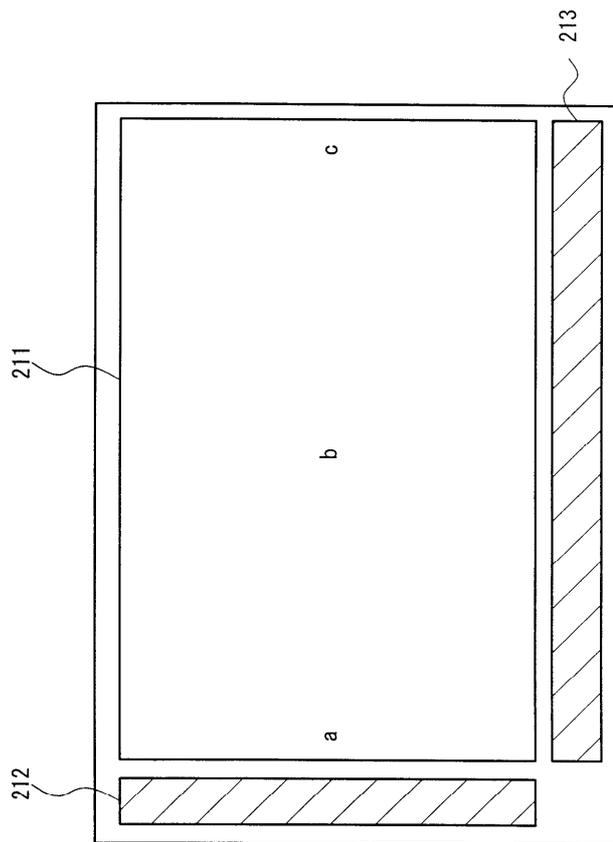
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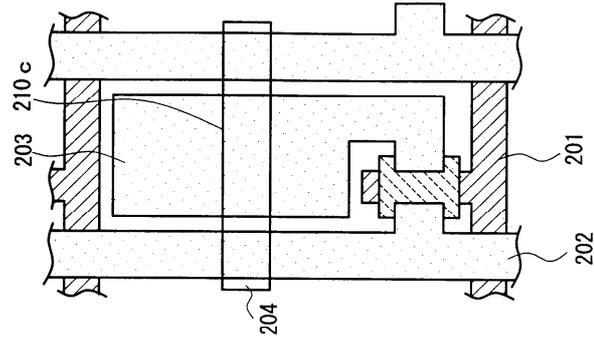
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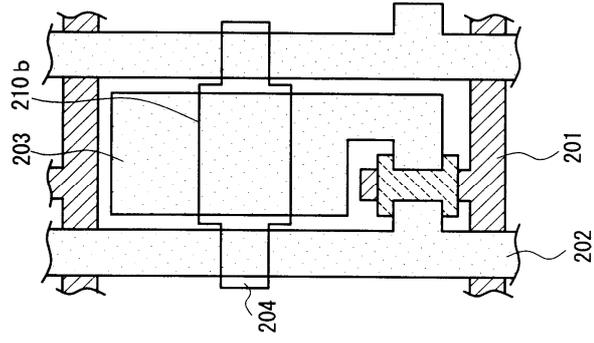
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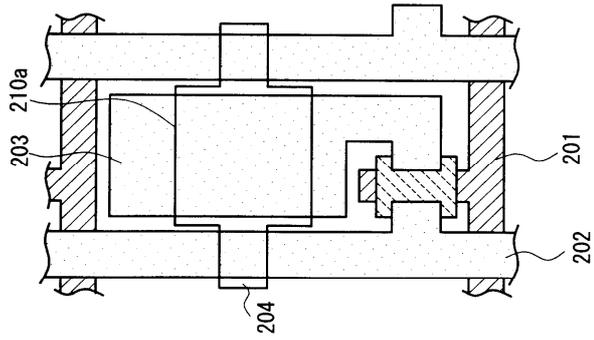
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37C



37B



37A

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