

(19)
(12)

(KR)
(B1)

(51) 。 Int. Cl. ⁶
G02F 1/136

(45)
(11)
(24)

2001 09 29
10 - 0309209
2001 09 05

(21) 10 - 1999 - 0031487
(22) 1999 07 31

(65) 2001 - 0011902
(43) 2001 02 15

(73) .
,
20

(72) APT10 308

(74)
:

(54)

가

;

;

;

;

;

;

1
2
3
4
5
6a
7
8
9
10
11

6f 5 -

5 -

9 Z

<

100 : 102 :

104 : 106 :

108 : 110 :

112 : 114 :

116 : 118 :

154 : 156 :

(Liquid Crystal Display : LCD)

(Thin Film Transistor : TFT)

가 가

가

가 ;
 1 가 2 ;
 ;
 ;
 가 가 - ;
 가 - ;
 가 - ;
 ,
 ,
 5
 가 (7) . (100) , (100) (106) (102)
 (102) 7 , (100)
 ,
 (108) , (108) (110) ,
 (110) (112) , (114) (120)
 (110)
 , (100) (116) ,
 (118)
 5 - 6a 6e
 , 6a (1) (106)
 (106) (102) , (102)
 (106) (Mo), - (AlNd) 가
 , 6b (132), (134)
 , (130), (133) (133)
 (133) (134)
 , (134)
 .

6c , 가
 , (110) (112) (116) .
 , (110) (112) (134)
 (104) .
 (104) , (104)
 / .
 6d , (104) (136)
 , (102) .
 (102) (138) (136) , (13
 8) 가 - (negative photo resistor : 140) .
 가 - (140) . , , 가
 가 - .
 가 - (140) . ,
 , 가 - (140)가 가 - 1
 (141) .
 , 6e (142) 2 , 1
 (141) 2 (143) 2 4 μm 1
 100 150 (138) 1, 2
 (Post Exposure Baking ; PEB) .
 , 6f (114) .
 (114) , 1 1 (114a) 2
 2 (114b) .
 (1) - (2) - (3) - (4) -
 (5)
 5 ,
 ,
 ,
 5 - 8 .
 8 (1) (108) , (108) ()
 130) . (108) (130) (114)

(108)

(114)

, L₆, L₇, L₈, L₉

, L₆ = L₇ = L₈ = L₉ 가

(108)

(114)

가

L₆ = L₇ = L₈ = L₉가

L₆, L₇, L₈, L₉

1 μm

가

가

가

가

9

가

(2)

(2)

(150)

(150) 가

(152),

(154)

(145, 152)

(151)가

(151)

(150)

(150)

가 -

(150)

(152, 154)

(150)

(150) 가

(156)

(158)

(156, 158)

/

(BM)

가

10

9 Z

(154)가

(100) 가

(150) 가

(158, 156)

(156)

(100)

(158)

(108)

가

(100, 108)

(158, 156)

(158, 156)

(100, 108)

(158, 156)

50

500 μm

(158, 156)

(150) 가

, 11 (108) (108) (108)
(156)

가 , 가 -

(57)

1.

가

;

;

;

;

2.

1

,

,

,

3.

1

,

4.

1 ,

/ , , , ,

, ,

5.

1 ,

6.

1 ,

7.

1 ,

8.

1 ,

9.

1 ,

10.

1

;

가

;

1

2

;

;

;

가

가 -

;

가

;

,

가 -

11.

10 ,

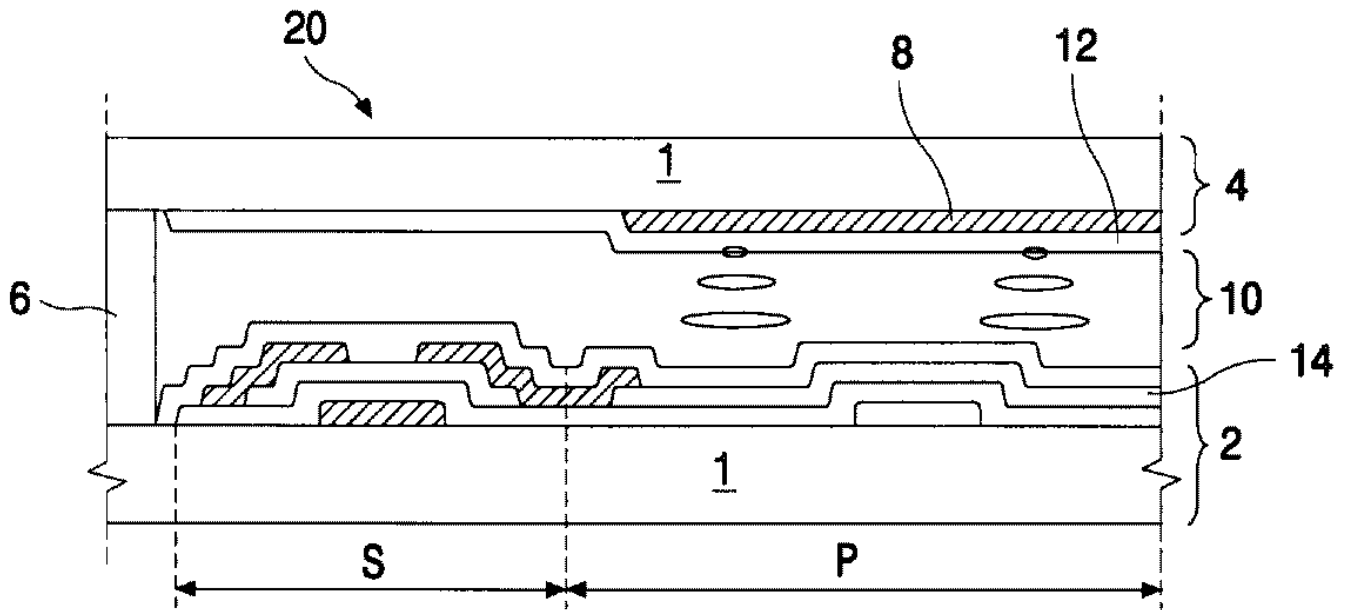
12.

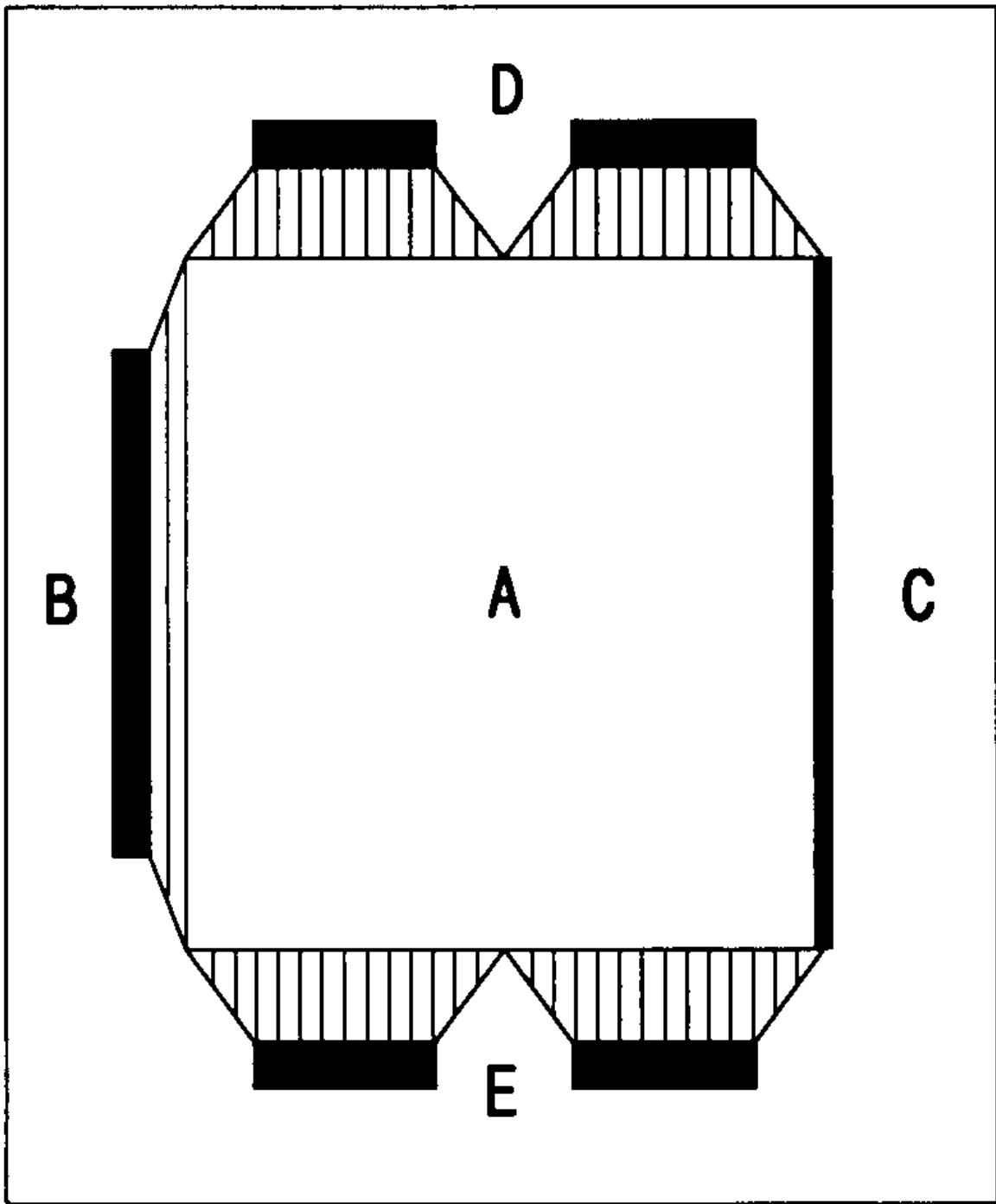
10 ,

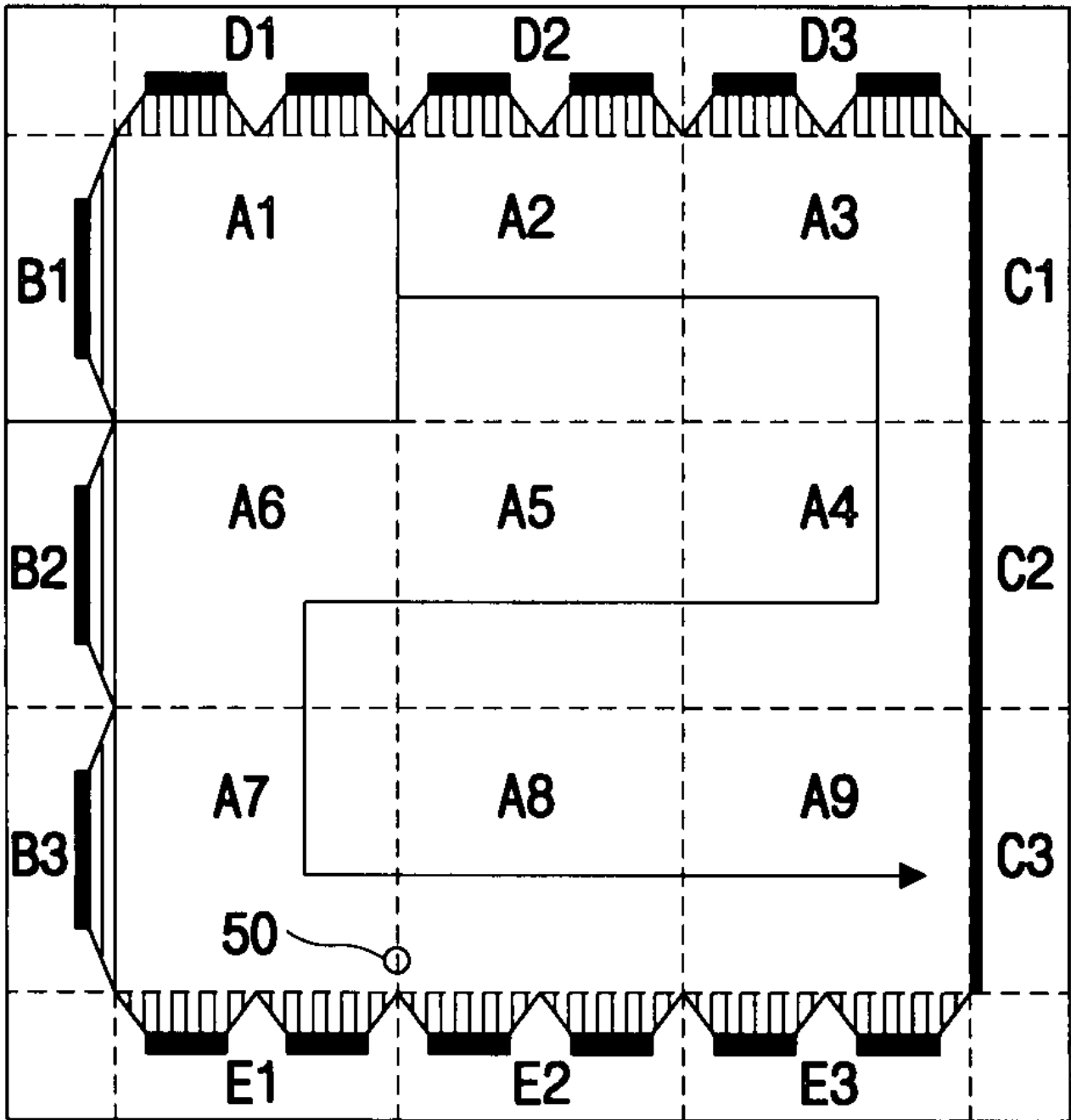
/

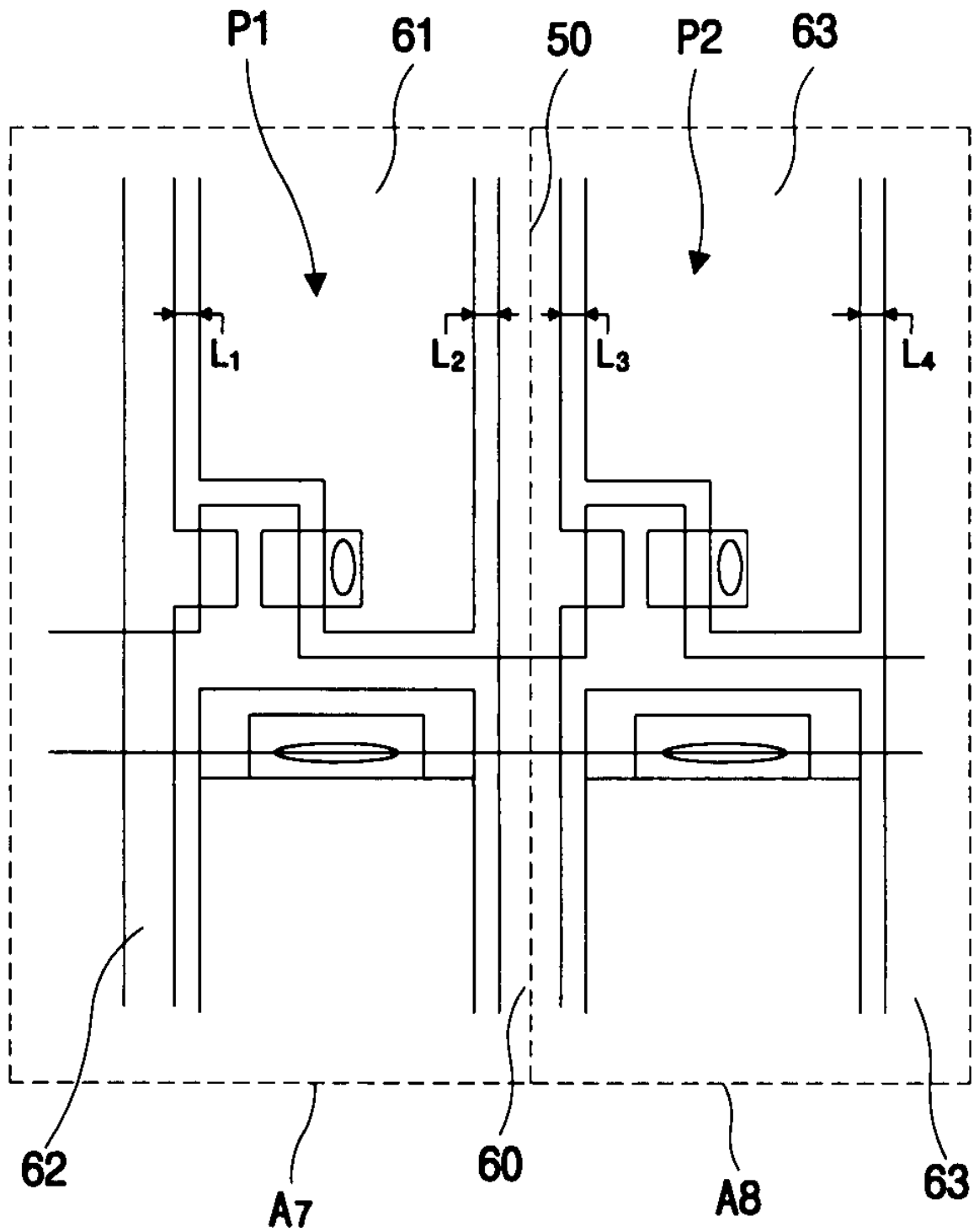
, , , , , , ,

1

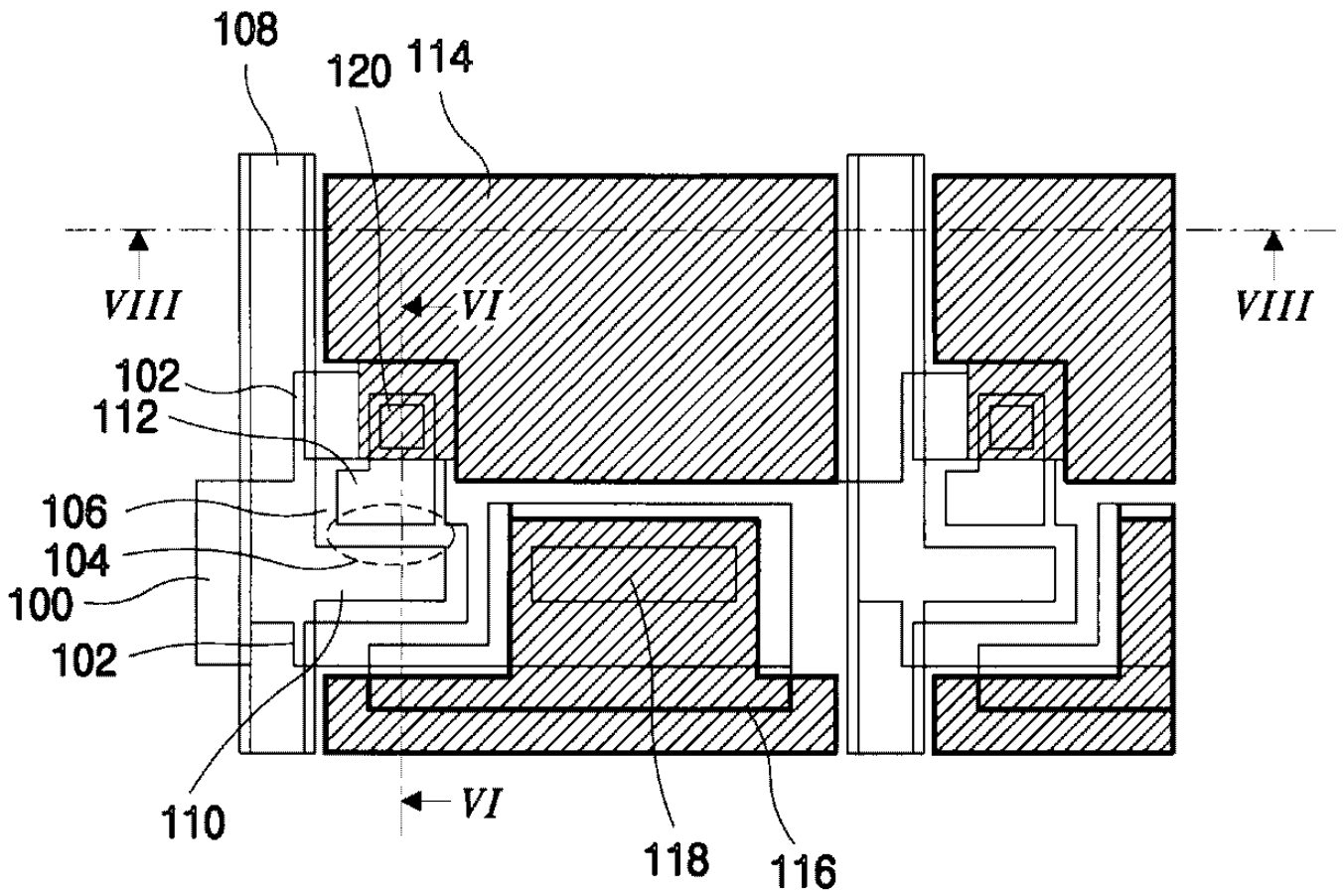




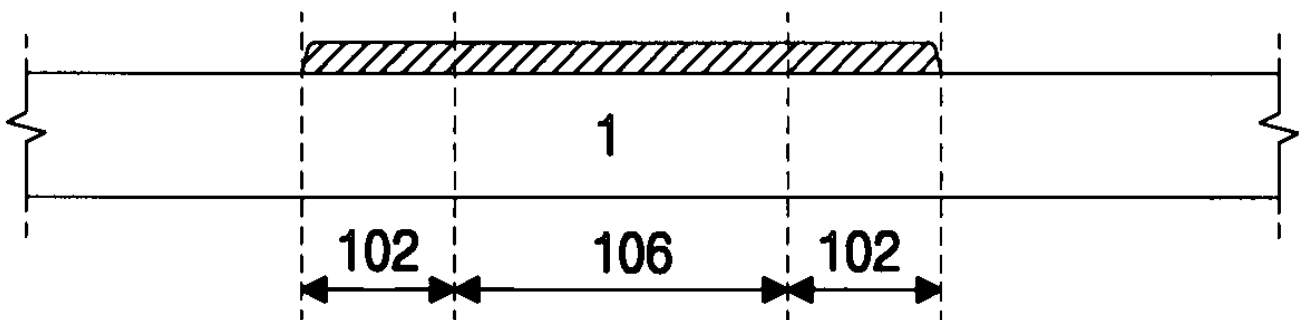




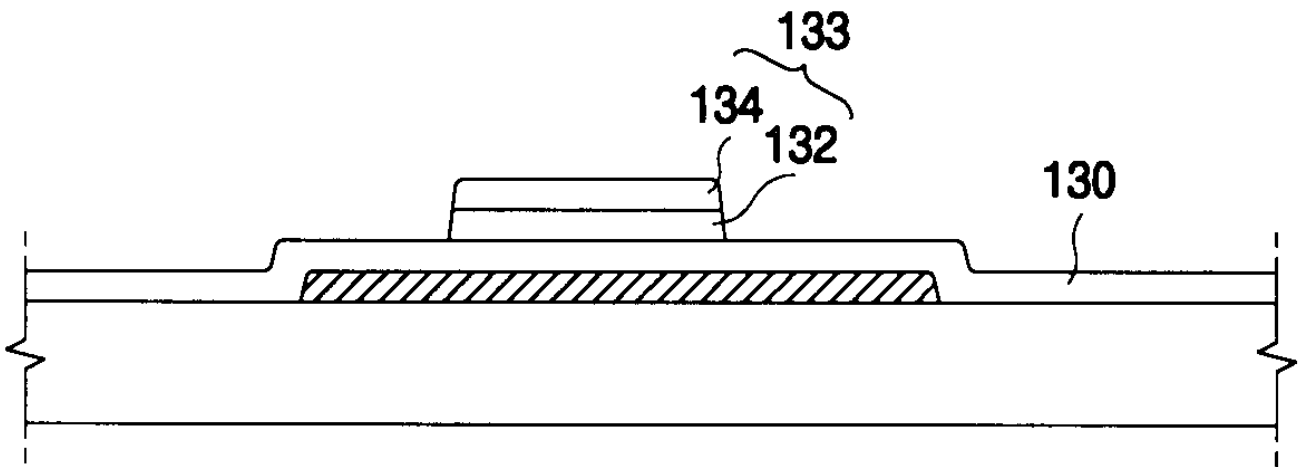
5



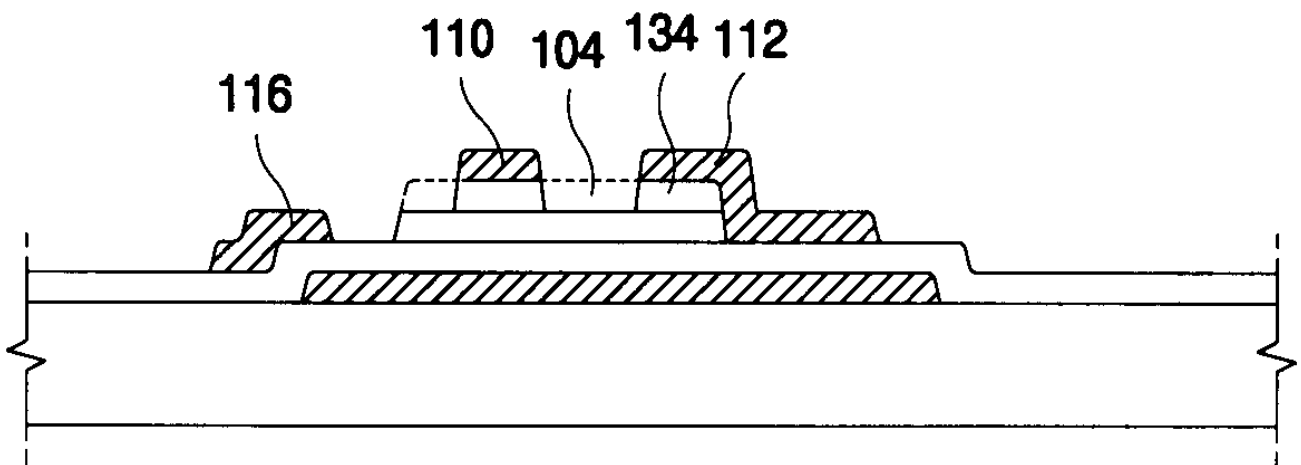
6a



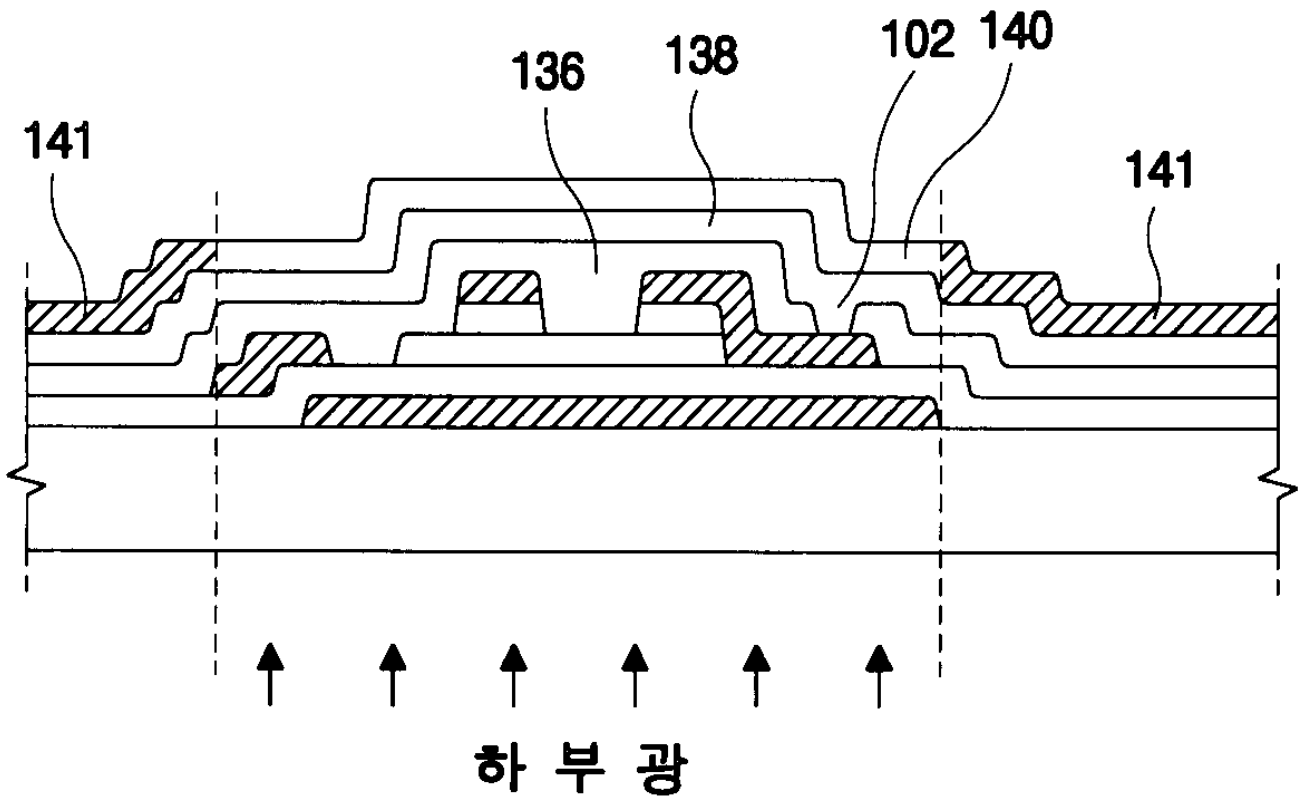
6b



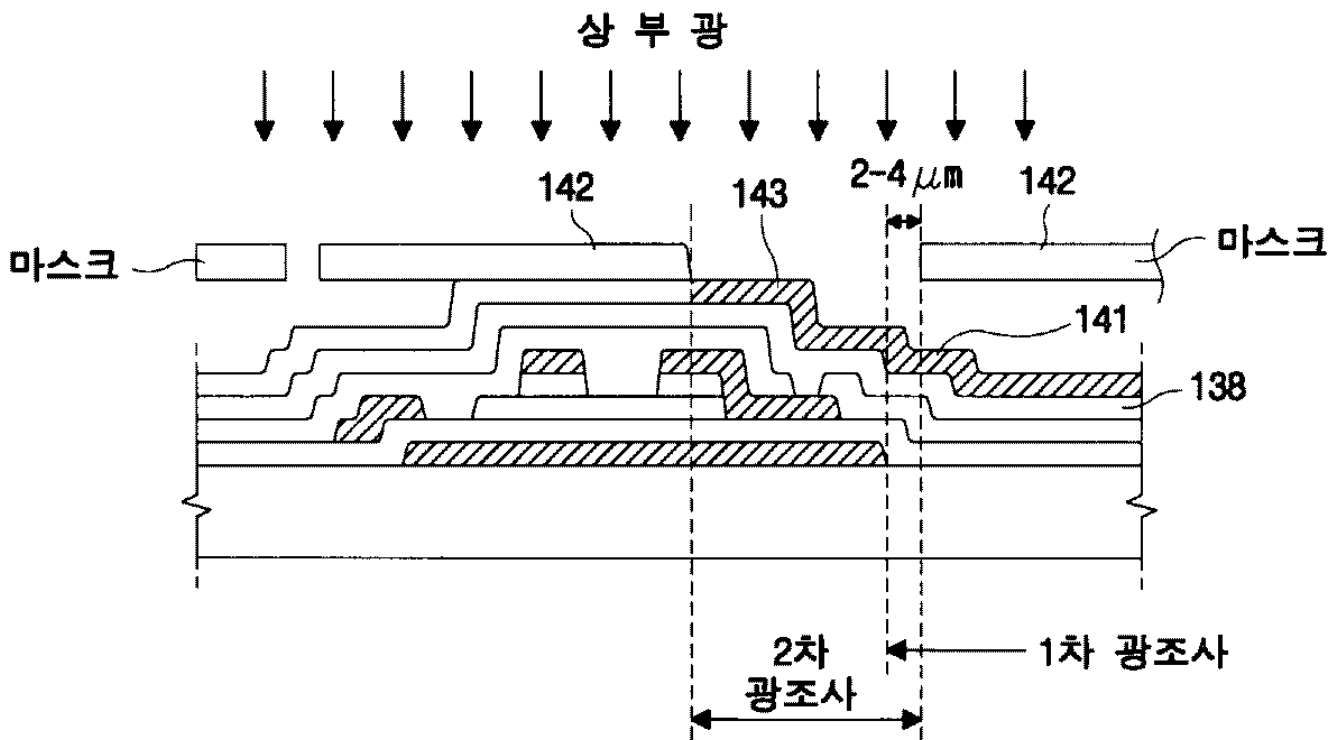
6c



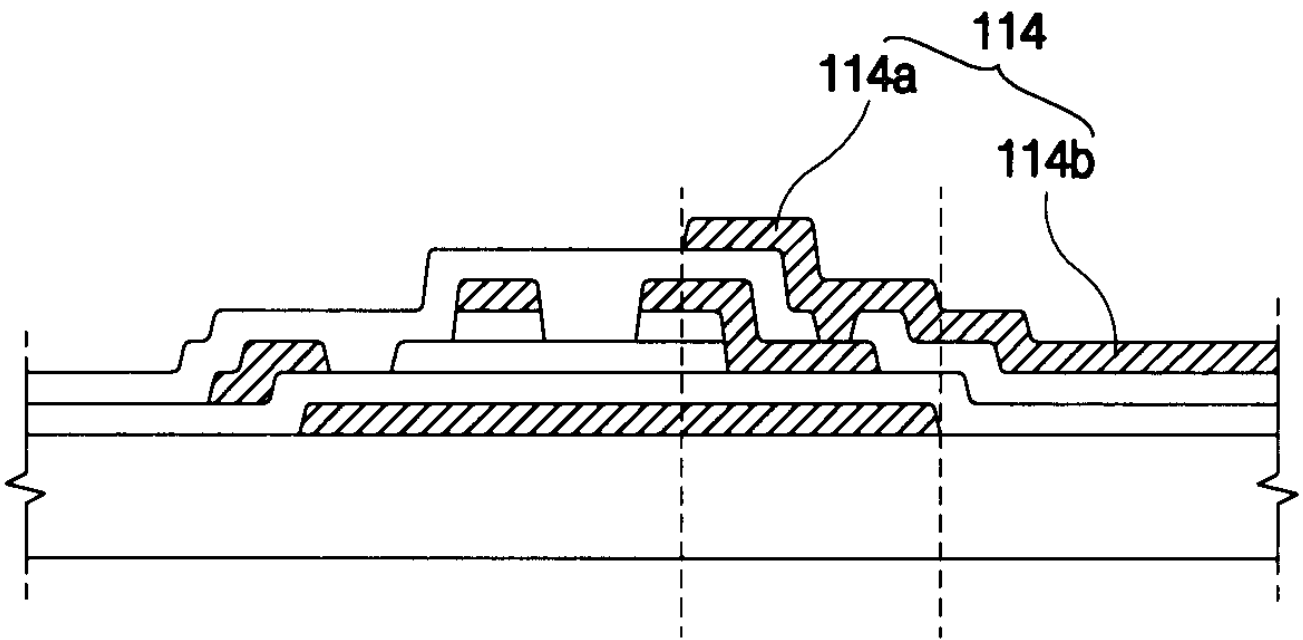
6d



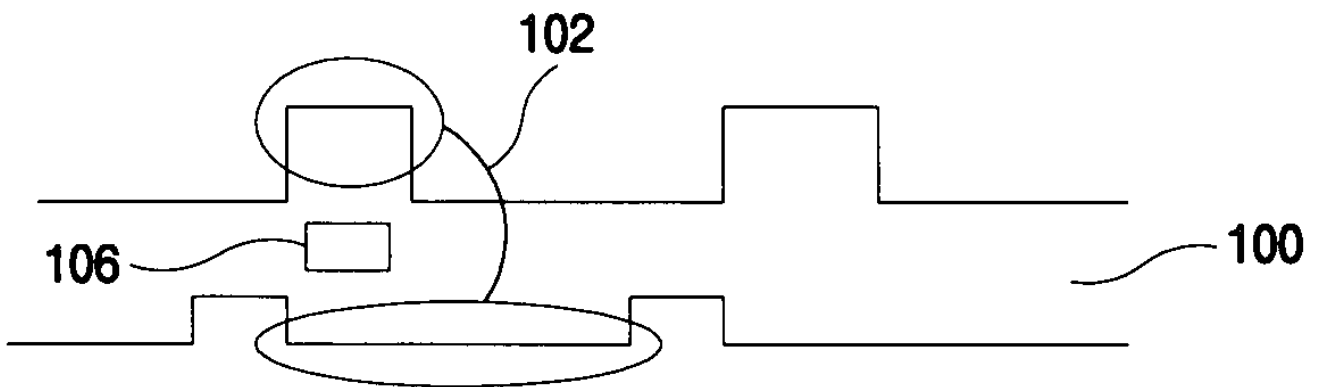
6e



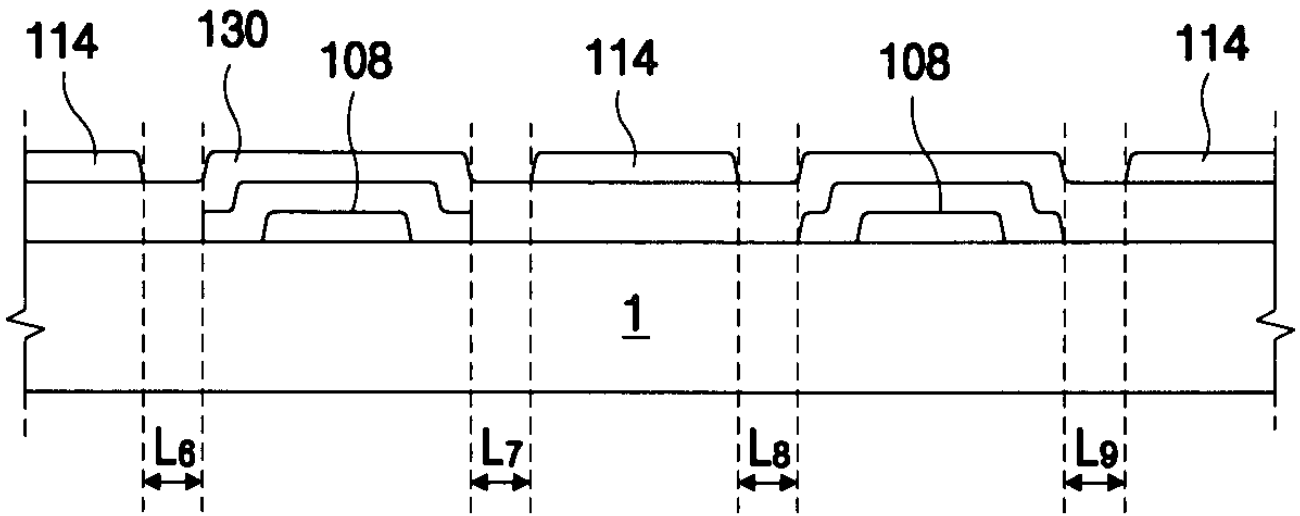
6f



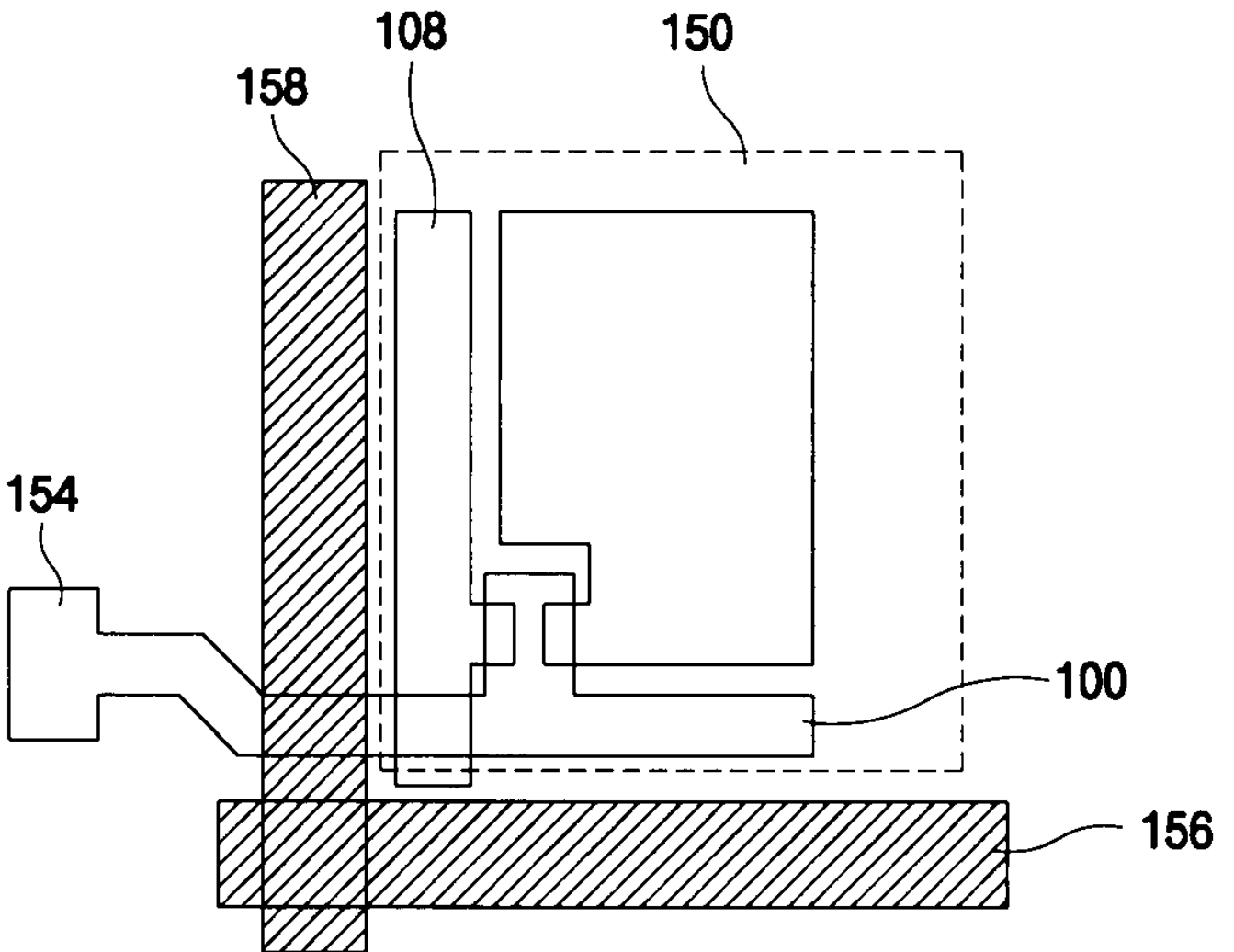
7



8



10



11

