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(12) (A)

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(22) 2002 02 27

(71) . 20

(72) 872 2 102 711

320-1230/4

(74)

:

(54)

, 1 , 가 2
1, 2 , 1, 2
1, 2 , 1, 2
.

3

,

1a 1f

2a 2h

3

4(a) 4(c)

(Rough Align Mark)

5(a)	5(c)	(Fine Align Mark)
6		
7	1	
8	2	
9	3	
10	4	
11	5	
12	6	
13	7	I-I'

10 : 11, 13 :
12 : 14 :
15 : 16 :
17 : 18a, 18b : UV 가

가 LCD
(Liquid Crystal Display Device), PDP(Plasma Display Panel), ELD(Electro Luminescent Display), VFD(Vacuum Fluorescent Display) 가 가

CRT(Cathode Ray Tube) LCD가 가 ,

가 가
가 , 가
가 , 가
가 , 가
1, 2 , 1, 2

1 (TFT) ,
 ,
 가
 2 (R, G, B) ,
 1, 2 (spacer) (seal)
 가
 가
 가

2000-147528

1a 1f
 1a , 가 1 (3) (1) 30 μ m 가
 , (1) (2) (3)
 (3) 1 (3) 가 (C) (4) , 1
 (3) 1 (5)
 1b , 가 2 (6) 2 (7) 1
 (3) , 2 (C) (6) 1mm , 2 (7) (3) (4)
 1 (3) 2 (6)
 1c , 2 (7) 2 (6) (2) (1)
 1d , 1 (3) (4) 1 (3)
 2 (6)
 1e , 2 (7) 2 (6) (1) 1
 (3) , 5 μ m 가
 1f , (C) 1, 2 (3, 6) (1)
 (1)

,
 ,
 , 1 가 2
 1 2 (Unbalance) 가
 , 1 가 (USC) 가
 ,
 , 1, 2 , 가 2
 2 (Damage)
 , 1 가 2
 (scratch)가 , 가
 , 2 가 가
 , 가
 , 가 (misalign)
 , 가
 ,
 ,
 ,
 , (scratch)
 ,
 .
 , 1 , 가 2
 , 1, 2 , 1, 2
 , 1, 2 , 1, 2
 ,
 , 1 , 2 1 , 1 2
 , 2 가 , 1, 2
 1
 1, 2 ,
 .
 2 1

2 1

.

, 2 가 .

, (UV),

가

가

가

, ,

, (UV), 가 .

, (UV),

가

, 50 200 .

, 50 500mW .

가

1 , 가 2 1, 2 1, 2

가 1 , 가 2 1, 2 1,

2

가 1 , 2 1, 2

2a 2h .

2a , 1 (11) (12) , 2 (13) (14) , 가

1, 2 (11, 13)

1 (11) , 가 2 (13) . 가

, 1, 2 (11, 13) (10) .

3

, 2b , (sealant)(14)가 (10) (15) (13) (14)가 (31S), (12) (32S).
 1 (11) (10) (10) (16)
 , (, (sealant)(14)가 (10) (15) (13) (14)가 (10) (13)
 (Loader)가 (10) (15)가 2 (13)
 (10) 가 , (12) 1 (11)
 (10) (16)
 , 가 1 (11) (12) 가 2
 2 (13) , 1 (11)
 , ,
 , 2 (13) (15)가 (16)가 (33S). , 1 (Rough Align Mark)
 , (15) (10) (glass receiver)(34S). ,
) 2 (15) (13)
 , (15) 2 (13)
 , (15) 1 2 (13)
 (13) 2 (13)
 , (15) 2 , 가 1
 가 2 (13)
 , 2 (13) , (15, 16)가 (10) 가 1,
 2 (11, 13) , 2 1
 (11)
 , 2 (13) 가
 , 2 (13)
 , 가
 (10) (35S). , (10) 1.1 x 1
 0 ⁻³ Pa 10 ² Pa , IPS 1.0 x 10 ⁻³ Pa 1Pa , TN
 , (10) 2 / (15, 16)
 , 1
 가 , 2 , 1 2
 , 1 가

가 2 , 가

가 1 , 2 , 가

가

(10)가 SC; Electric Static Charge) (37S). 1, 2 (11, 13) (36S), (15, 16) (E

가 2 / 가

(

0.1 1KV 가 ,

3 4KV 가 .

가 2 (13) 1 (11)

가 1 (11) 2 (13) (38S).

4(a) 4(c) (Rough Align Mark) , 5(a)

5(c) (Fine Align Mark) , 6

가 1 (11) 2 (13) , 4 5 (Fine align Mark)(가 0.3 μ m

)(5)가 , 1 3 μ m)(4) 4(a) 5(a) 가

가 2 (13) 4(b) 5(b) 가 ,

가 가 ,

(Focussing) , 6 , 1 (11) 2 (1

3)

가 1 0.6mm , 2c , 1 (11) 2 (13) 0.4mm 0.9mm (

2 (13) (4b)가 , 1 (11) 1 (11) 2 (13) (4a)

mm (2 0.2mm 2d)가 , 1 (11) 2 (13) 0.1mm 0.4

(5a) 2 (13) (5b)가 , 1 (11) (11) 2

(12) 2 (13) , 1 (11)

가 (15) (16)가 X Y

가 (16)

가 2 (13) 1 2 (11) (13)

가 1 (11)

가 1 (11) 2 (13) 가 4

가 가

4 5 4(c) 5(c) 가 ,
1 (11) 2 (13)

(15, 16) , 2e 2f (11, 13)
(15) 1 (11) 2 (13)
가 (39S). , 가 (15) 1 (16)
(12) 가 (13) 1 (11)
2 (13) 1 (13) (14)가

0.1ton, 0.3ton, 0.4ton, 0.5ton
(11, 13) (2f).

ell; , 가 , (load c
) 가
가 가 가

가 (40S). , 2g , 1, 2
(11, 13) UV ,
1, 2 (11, 13) , (1000mm ×1200mm)
가 ,

(UV)
0mW UV 5 40 (UV 200mW UV 14) UV 50 50
가 50 200 10 가 ,

7 , 13 7 I-I' /

1 (14) (UV)
(14a) 7 가
4b) (가) (14b) , (1
13) (14a) 2 (14c)

(14c) 가 (14
c) UV (14c) (14c) UV
(14c) UV (14c)가 UV
(14c) 가 (14c)

13 , (15) / (16) UV 가

[illegible]

UV 가 (UV , UV)

(14c)가 8 1, 3, 4, 5 1, 2

1

가 , 1, 2

h , (15) (15) (ESC off), 2 (11, 13)

(41S). , (15)가 1, 2 (11, 13) (15)가

1, 2 (11, 13) (16) 1, 2 (11, 13) (15)가

1, 2 (11) 2 (13) 2

(15) 1, 2 가 2 (15)가 (1

1) 1, 2 (11, 13) (16) 1, 2 가 1

가 가 10 ,

가

가

1 2

(balance) 1 2 가 가 1 2

가 1 2 가 가 (USC)

2 가

1, 2 ,

가

가 가 가 가 , 가 ,
가 가 가 가 .

1 2 (misalign) .

, .
, , .

(57)

1. 가 2 ;
1, 2 ;
1, 2 ;
; ,
1, 2 .

2. 1 2 ,
1 2 1 ,
2 ,
1, 2 가 .

3. 2 ,
1 .

4. 1 ,
1, 2 ,
.

5. 4 ,
.

6.

4 ,

2 1

.

7.

4 ,

2 1

.

8.

1 ,

, 2 가 .

9.

1 ,

,

, (UV), 가

.

10.

9 ,

가 .

11.

9 ,

가

.

12.

1 ,

,

,

,

,

, (UV), 가

.

13.

1 ,

,

,

,

, (UV), 가

.

14.

9 , 12 13 ,

, 50 200

15.

9 , 12 13 ,

50 500mW

16.

가 1 , 가 2

1, 2

1, 2

1, 2

17.

가 1 , 가 2

1, 2

1, 2

1, 2

18.

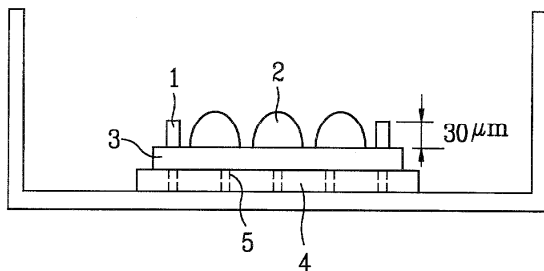
가 1 , 2

1, 2

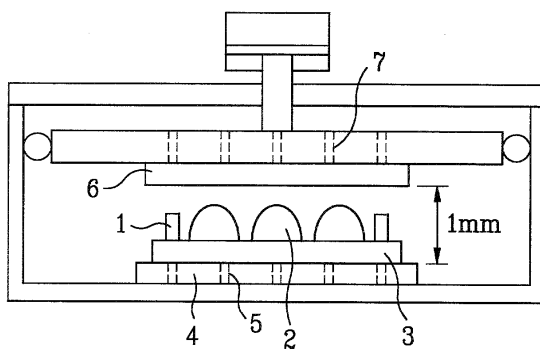
1, 2

1, 2

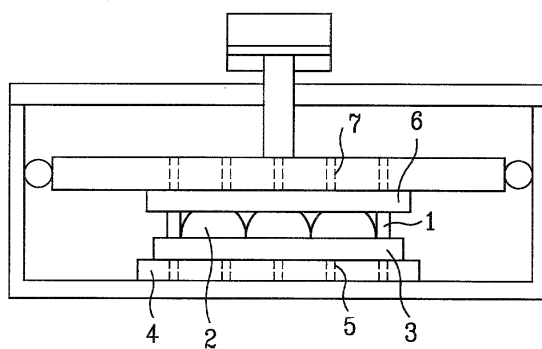
1a



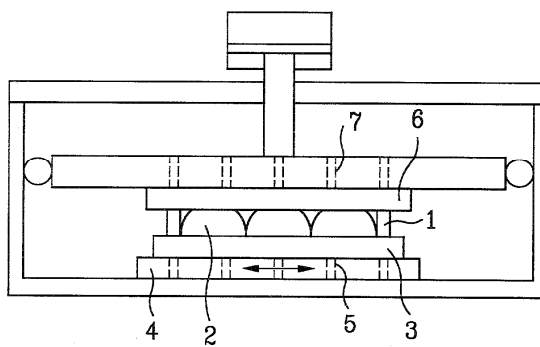
1b



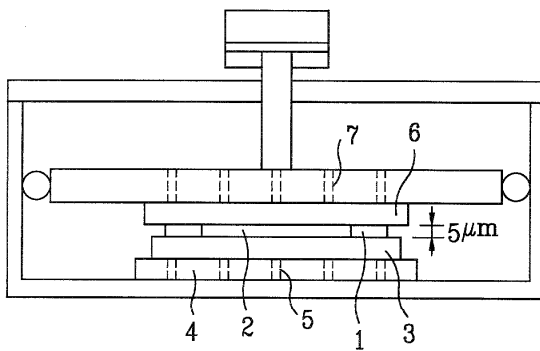
1c



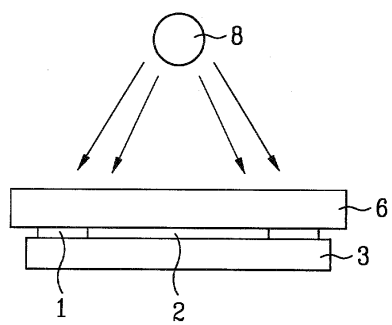
1d



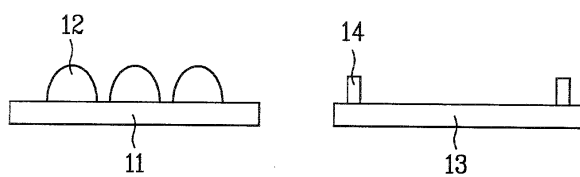
1e



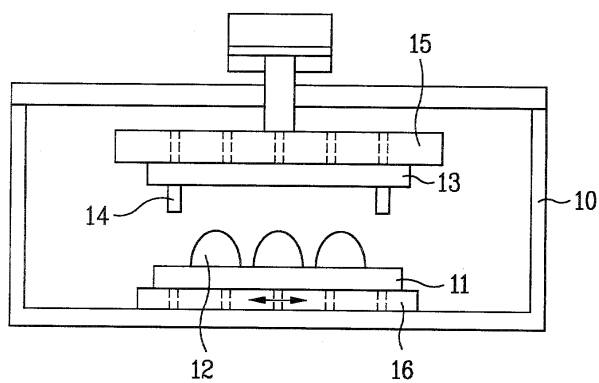
1f



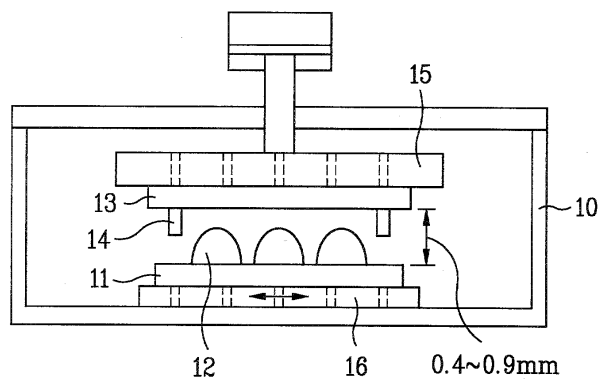
2a



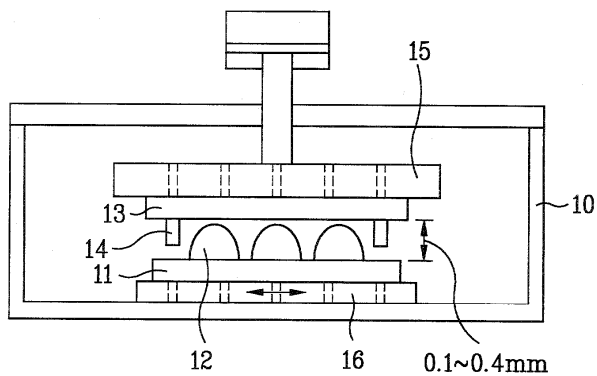
2b



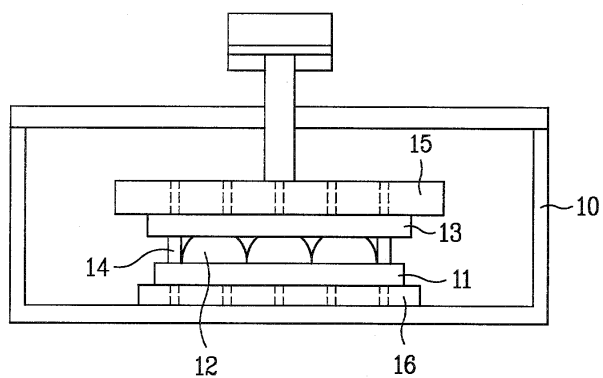
2c



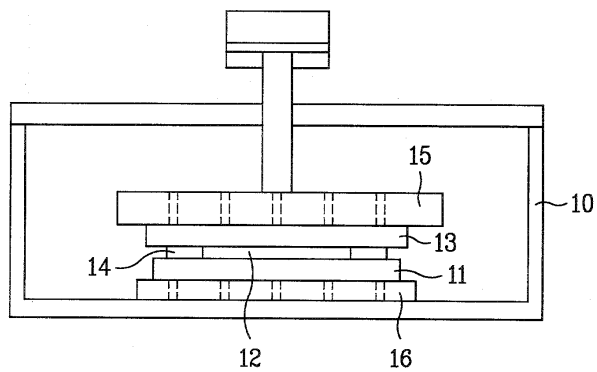
2d



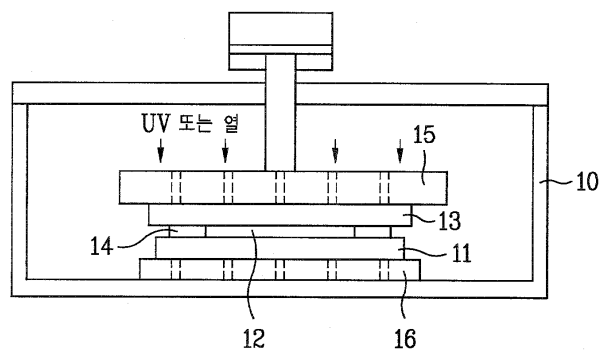
2e

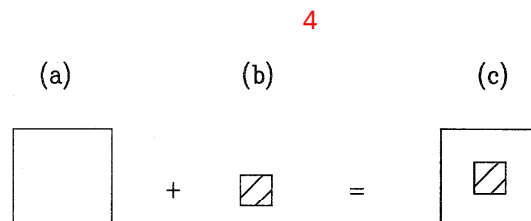
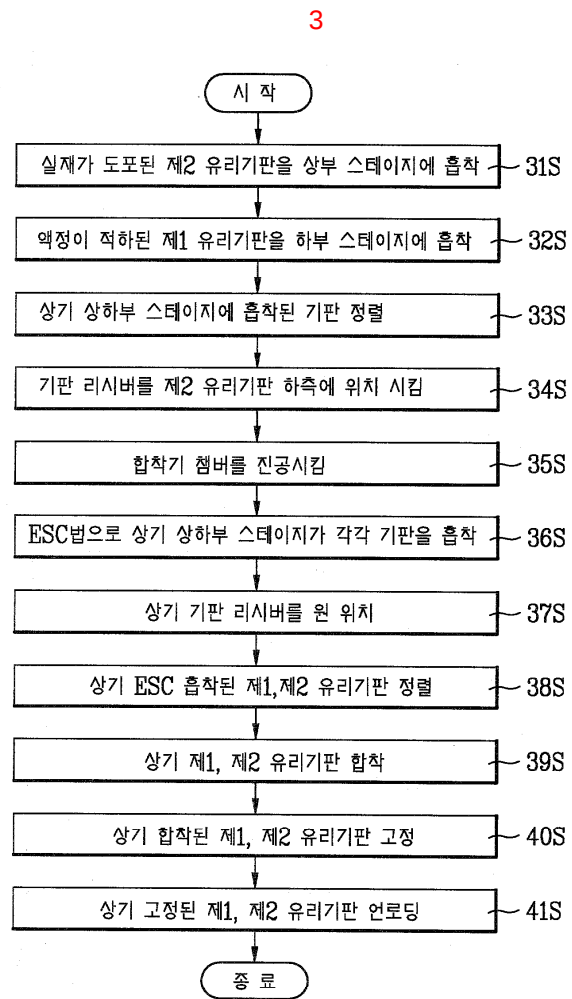
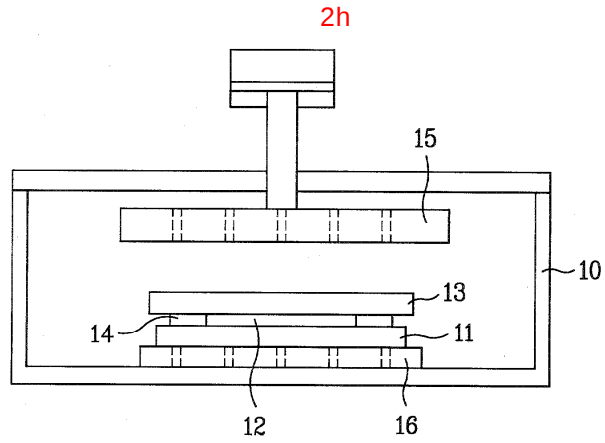


2f



2g





5

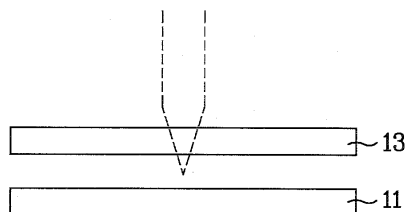
(a)

(b)

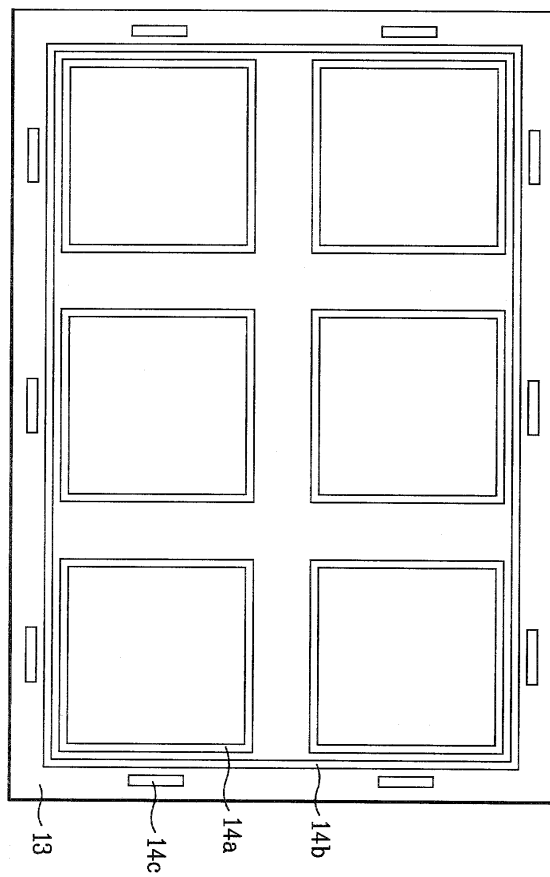
(c)



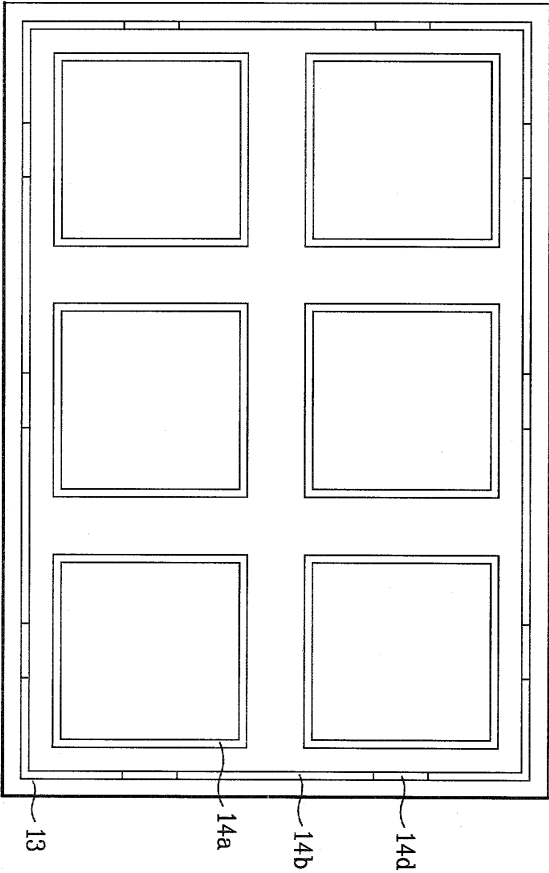
6



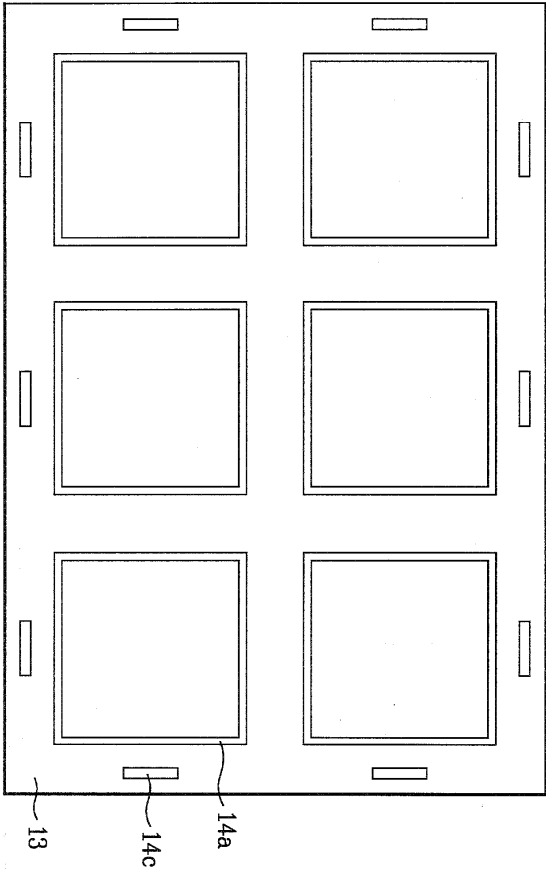
7



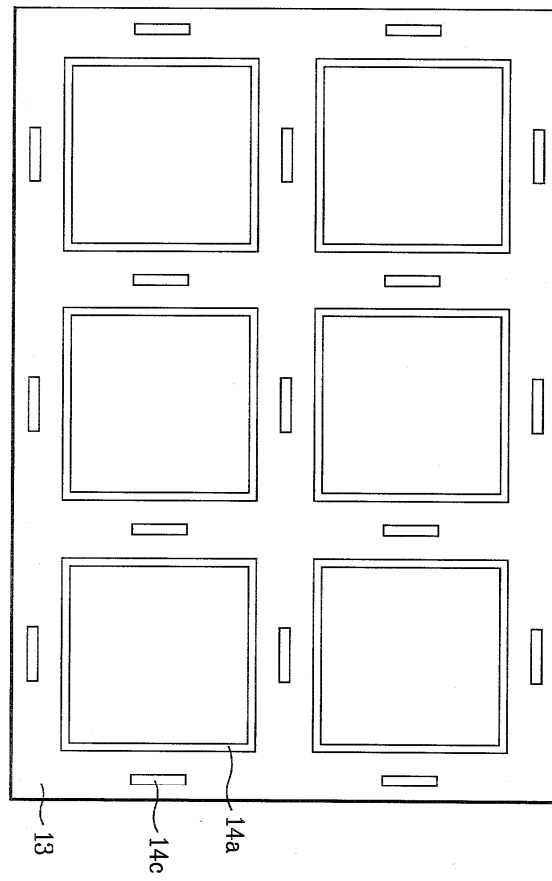
8



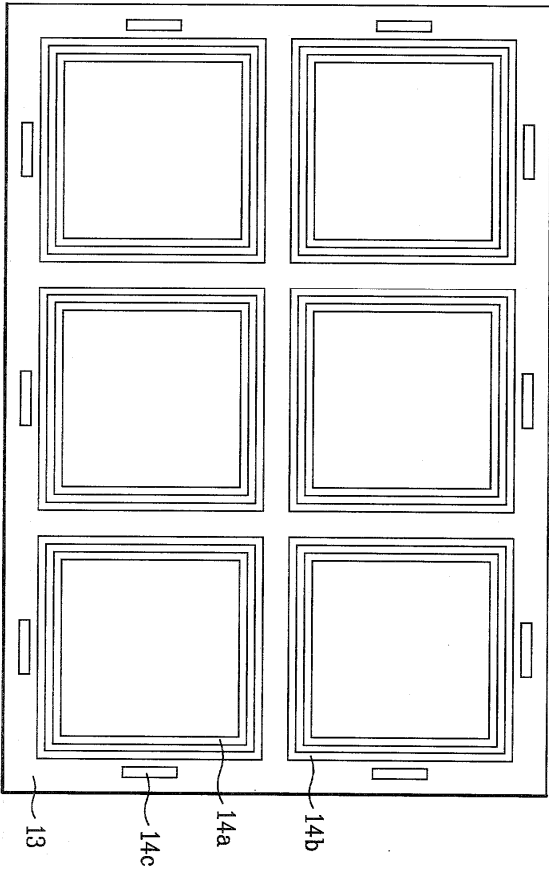
9



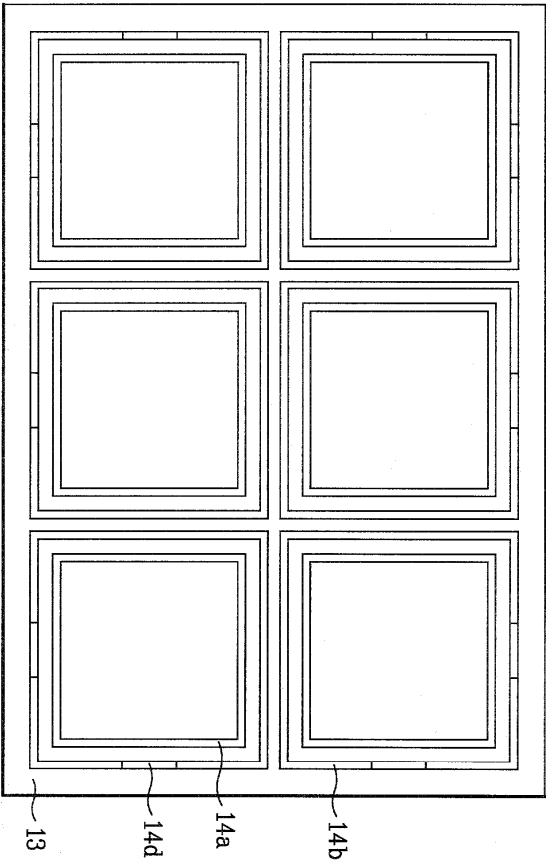
10



11



12



13

