

(19)
(12)

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(11)
(24)

2001 09 24
10 - 0303743
2001 07 13

(21) 10 - 2000 - 0050300
(22) 2000 08 29
(62) 1997 - 0045883
: 1997 08 29

(65) 0000 - 0000000
(43) 0000 00 00
1997 08 29

(30) 96 - 229094 1996 08 29 (JP)

(73) 가 가
가
5 7 1

(72) 5 - 7 - 1 가 가
5 - 7 - 1 가 가

(74)
:

(54)

가 .

2a

1

2a 2b

3a 3b 2a 2b

3c 3a 3b

4 3a

5

6a 6b 5

6c 6b

* *

11, 21, 31 : 12, 22, 32 :

13, 23, 33 : 5; 15, 25 :

5a, 5b, 5c; 5d :

16, 26, 36 : 18:

()

가

1 1992 - 102851 (32) (32) (36) 4 (38) (33), (34)
(31) 가 (32)

가

()

1

2

1

1

1

1

2

2

2

1

2

2

3

가

1

1 2 , 3
2

가

2a 2b , (13)가
(18) (11) (12) (16)
(15) (18) (18)
(11) , (12) , (13) (15)

2a (11) , (12) , (13) (15)
가 (13) , 2b (11) , (12)
(15) 가

(drift) (13)
(11) (15)
(15) (11) (11) (12) (18)

3a 3b , (15a 15b 15c 15d) 2a 2b
(15) (15a, 15b, 15c 15d)

1 40μm

(15)
가 , (15) (15) (15)

(18) (15)
(13) , 가 ,
(13) (11) 가 , 가 ,
가 가 가

(15)

3a X Y () (15a,15b) (15) (17a)
 10 μ m . 1/5 (15a 15b) 20 μ m
 4 μ m , 2 μ m (15a,15b) (
 15a,15b) 1 40 μ m .

3b (15) , (15c,15d) (15) (
 17b) Y X (17b) (15) ,
 (15c,15d) 3a .

3a 3b (15) , 3c
 3a (15a 15b) 3b (15c 15d)
 (15) , (15) (15a, 15b, 15c 15d) 가
 (15)

3a (photolithographic) 3b
 3c 1/5

(15) , (15) (18) (2)
 (13) (11) .
 (11) X Y 4 (13)
 (15) (15a 15b (15c 15d)) (15) , (11)
 (13) (11)

(15) (17a) (13)
) a b ((15)
 (17a)가 . a b ,

(17a) , 4 , a (41) (42)
 b (43) (44) .
 (17a)가 , (13) (15) 가 ,
 (15) (13) (15)
 (15) (18) (13)

(11)

(13)

(11)

가

(11)

가

가

(feeding)

(15)

(13)

(15)

5

S1

(13)

1

(11)

(13)

(15)

1

S4

6a

1

1

(10)

(16)

(13)가

(18)

(12)

(11)

4

(15)

(18)

(11)

(15)

(18)

가

(13)

(15)

(13)

S6

가 1

S5

S7

6b

5

2

2

(20)

(26) (23)가 , 4 (25) (21)
 (28) (22) . 2 (20) 4
 (25) (21) (23) 가

X Y , , ,
 6b 4 (25) 4
 (23) 가 .

2 (20) (23) (21) ()
 23) 4 (25) S2 . 2 (20)
 S8

, 1 2 (10, 20) (13, 23) (1
 1, 21) , S3 , 1 (10)
 (11) 2 (20) (21) S3 S9
 S11 , S12 S10 , 2 (23)

6b , 2 (20) (21) (23)
 가 , S9 6c S11
 2 (20) (26) , (21)
 1 (10) (11) .
 2 (20)

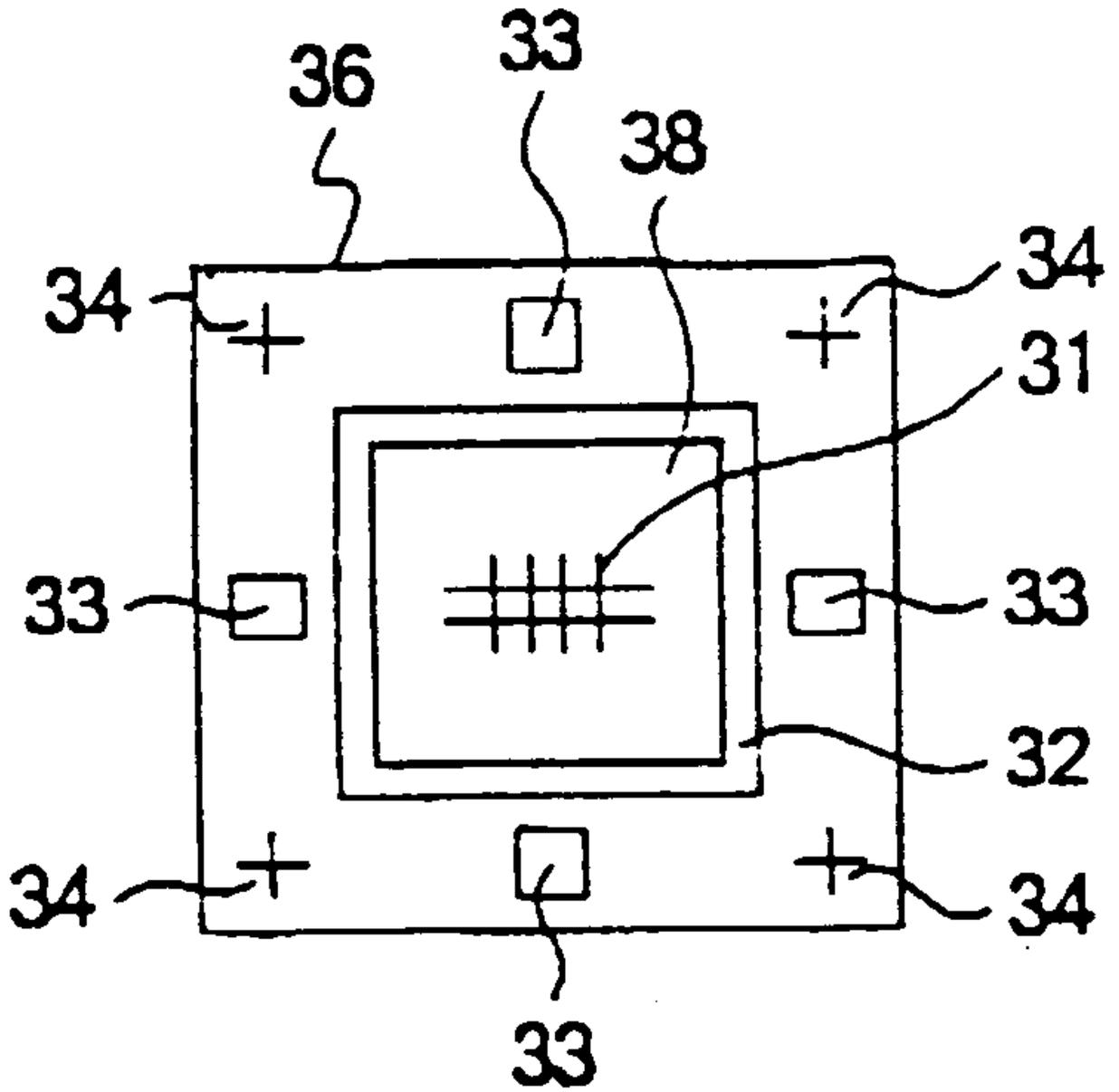
1 2 , 1 1 1 2
 2 , 2 1 1 2
 가 가 .

(57)

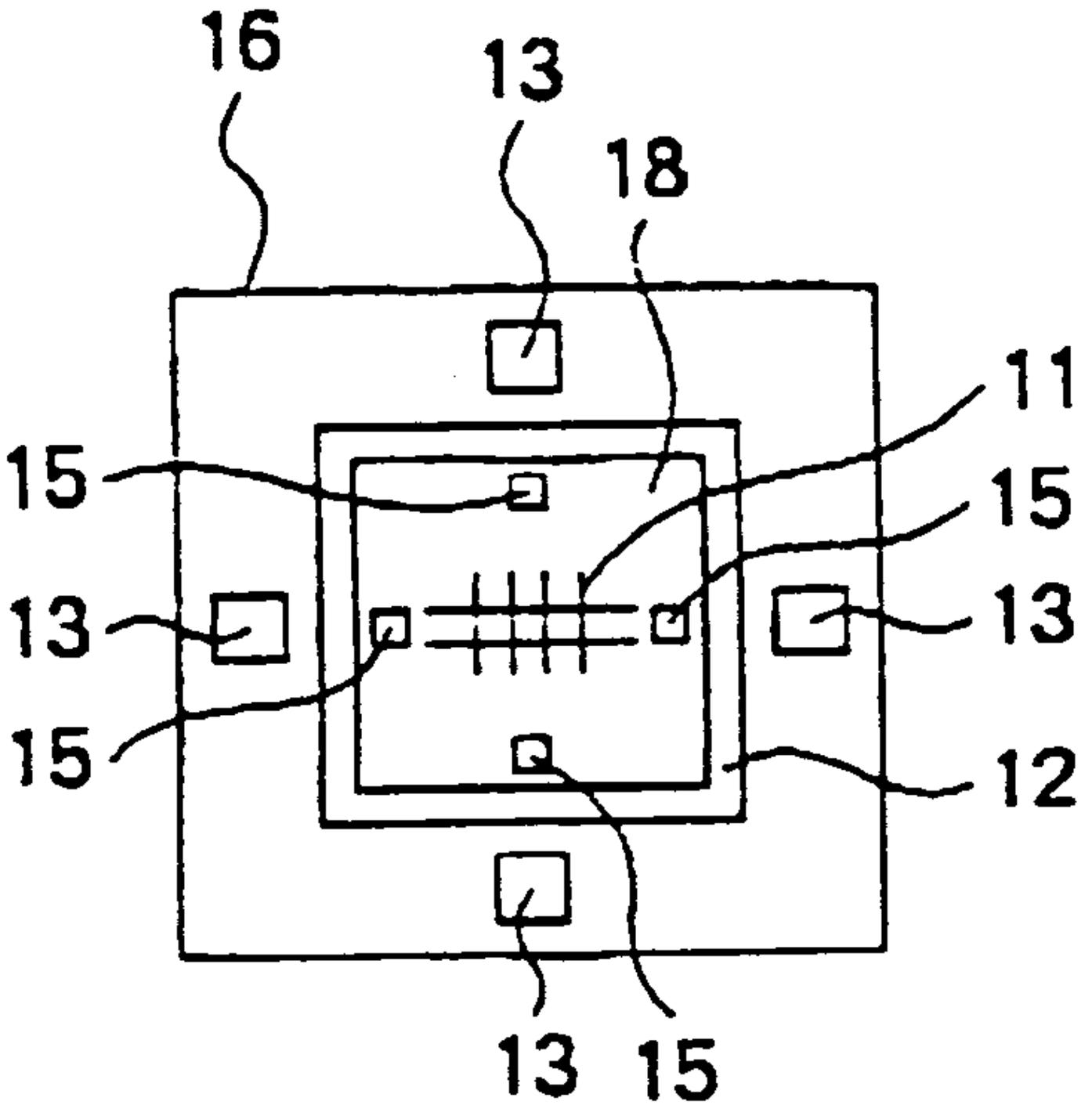
1.

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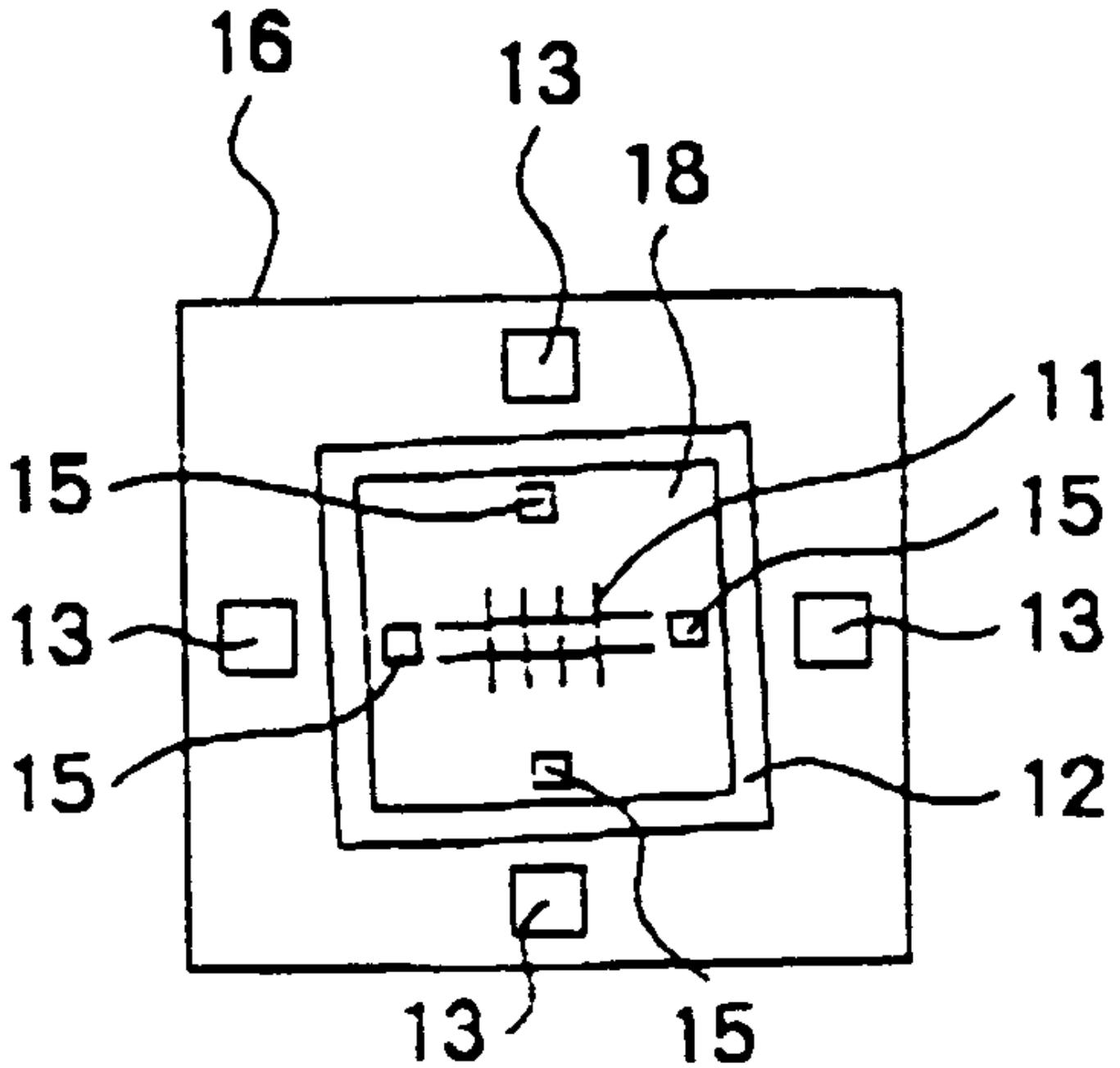
종래기술



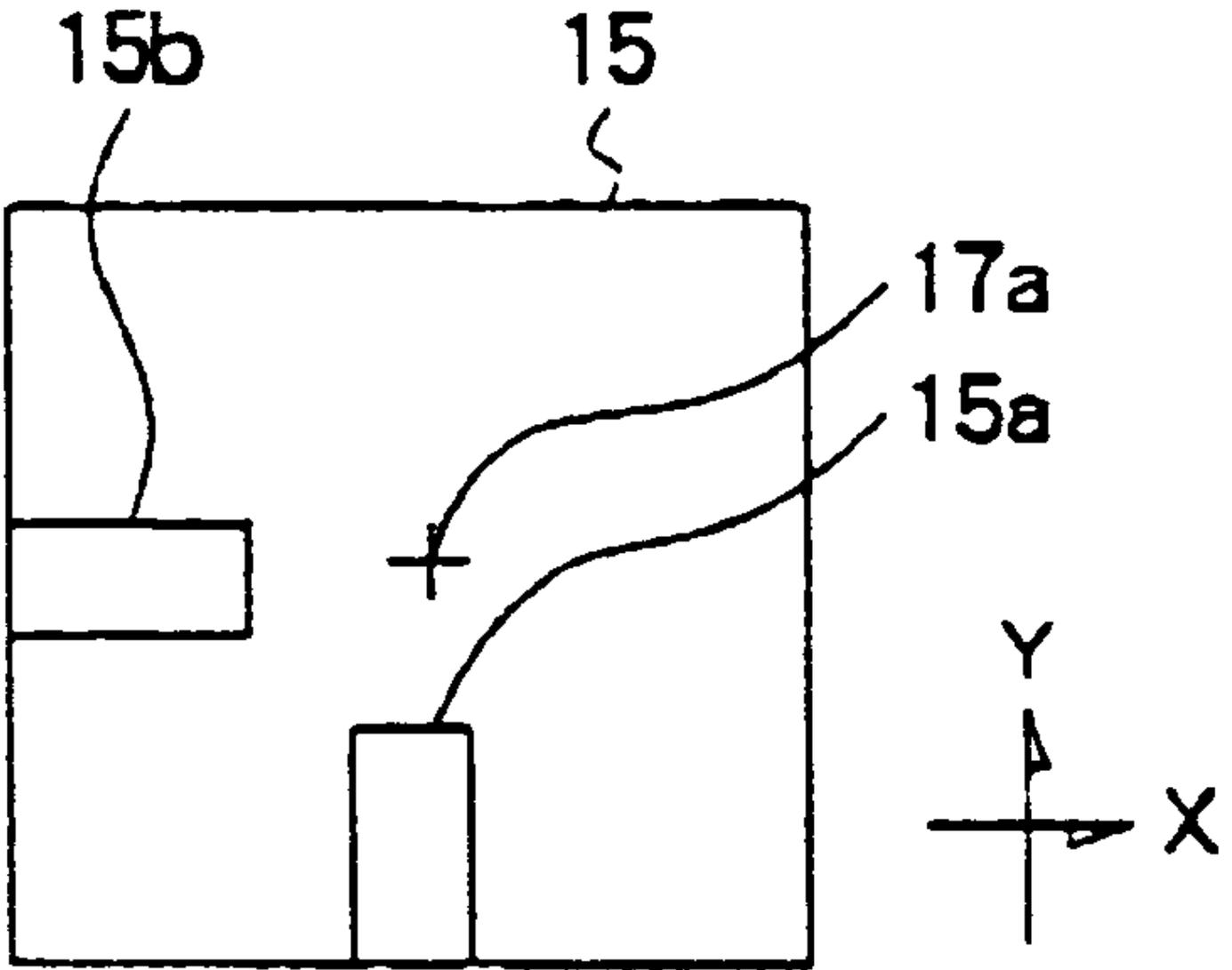
2a



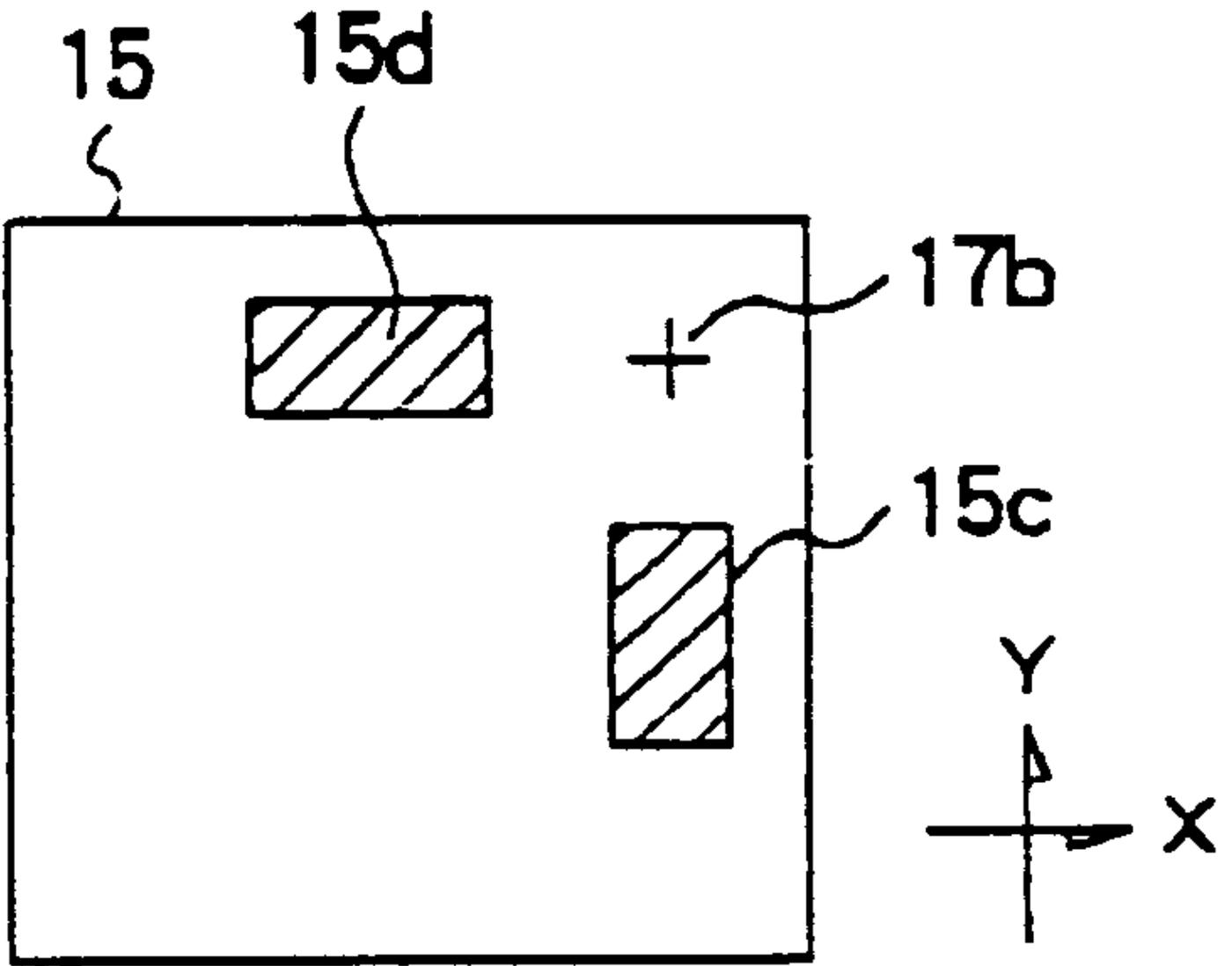
2b



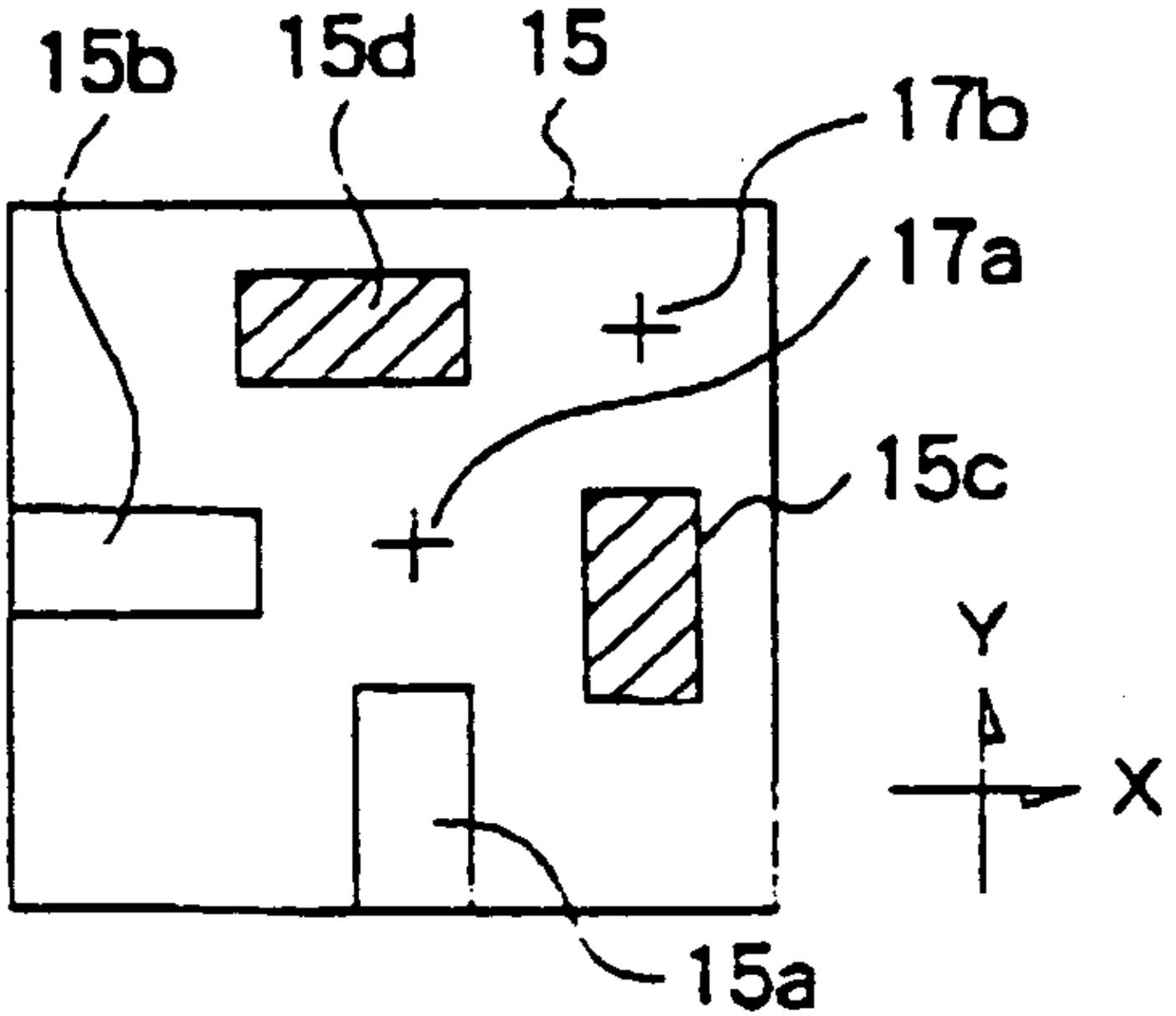
3a



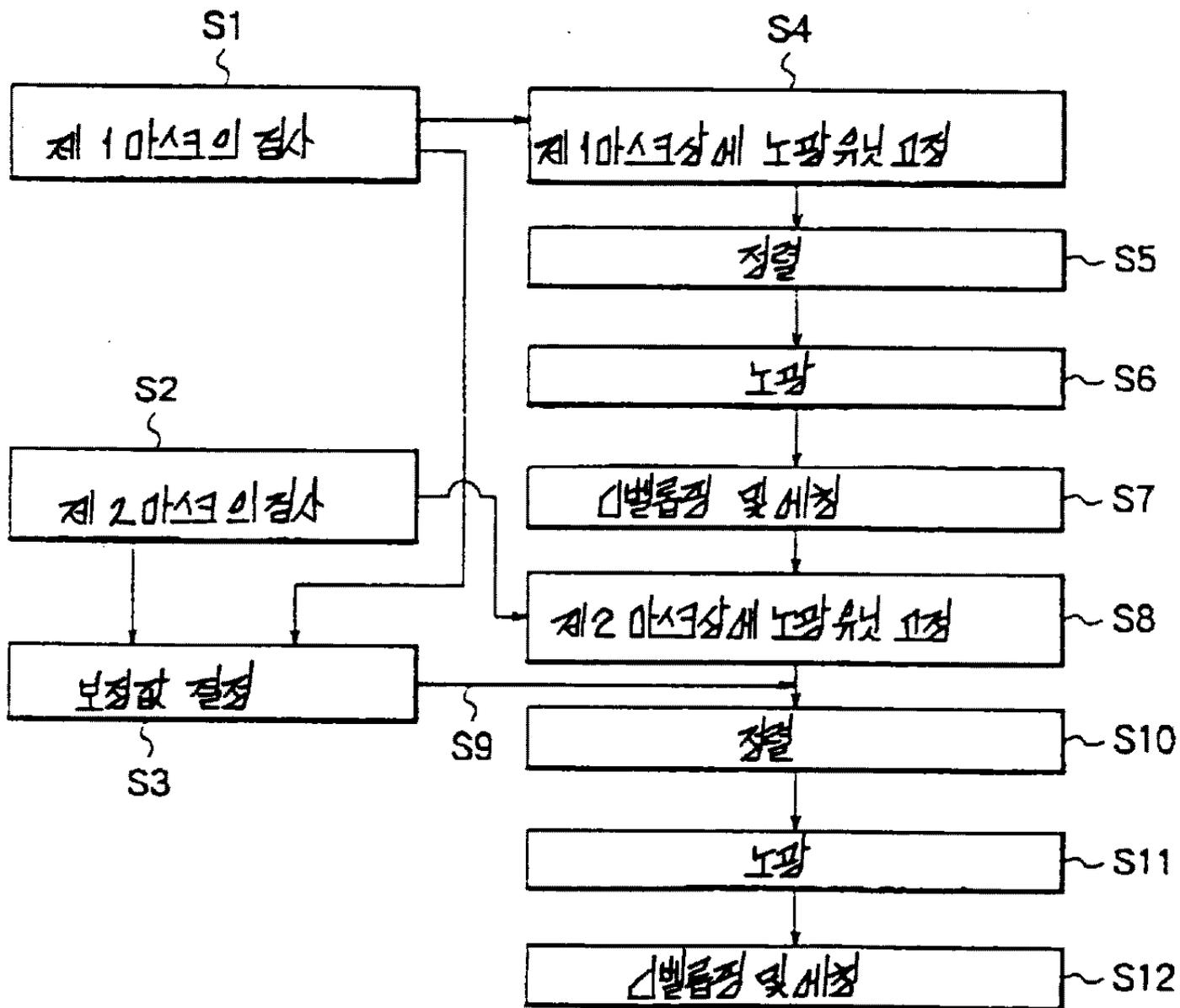
3b



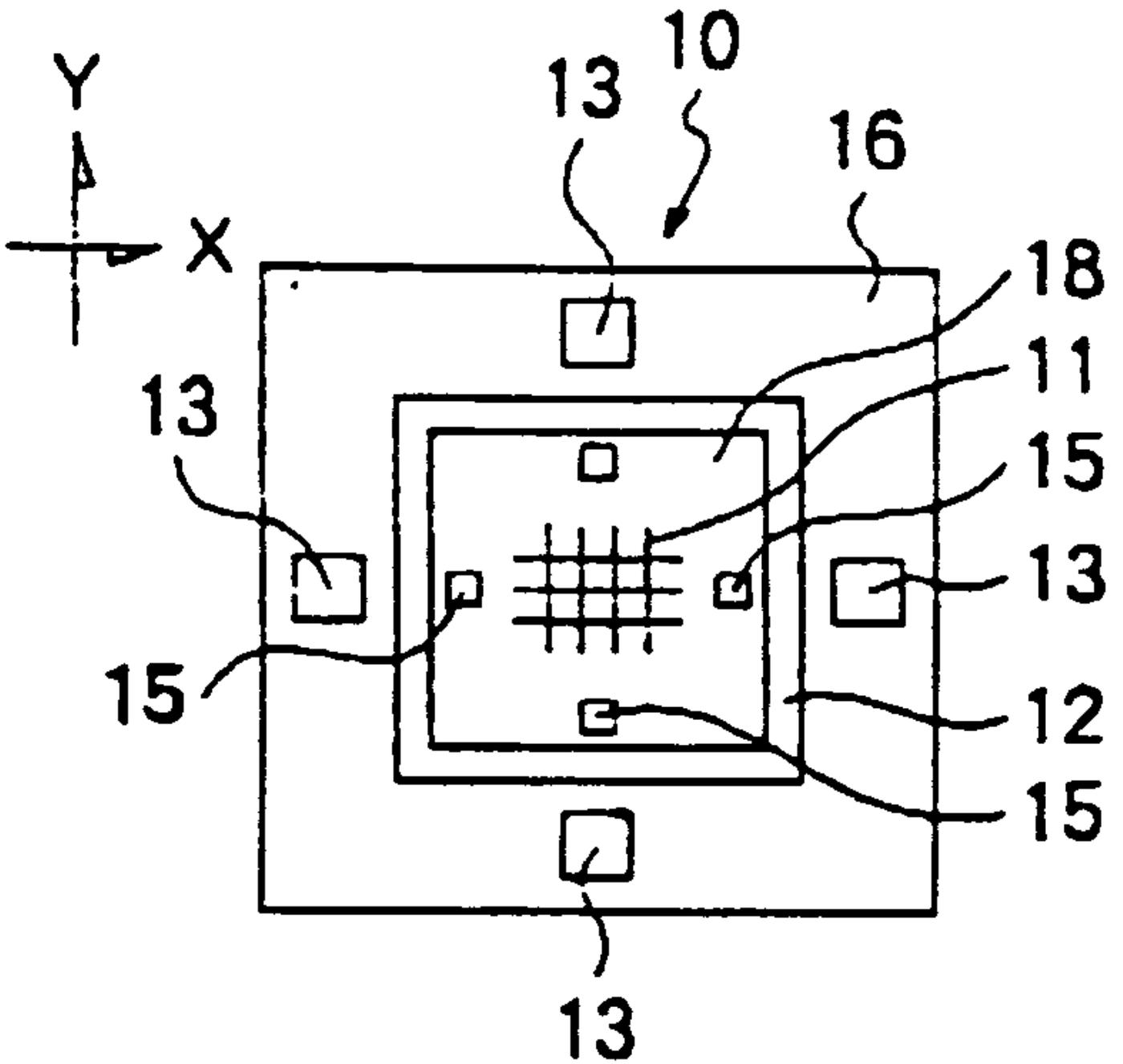
3c



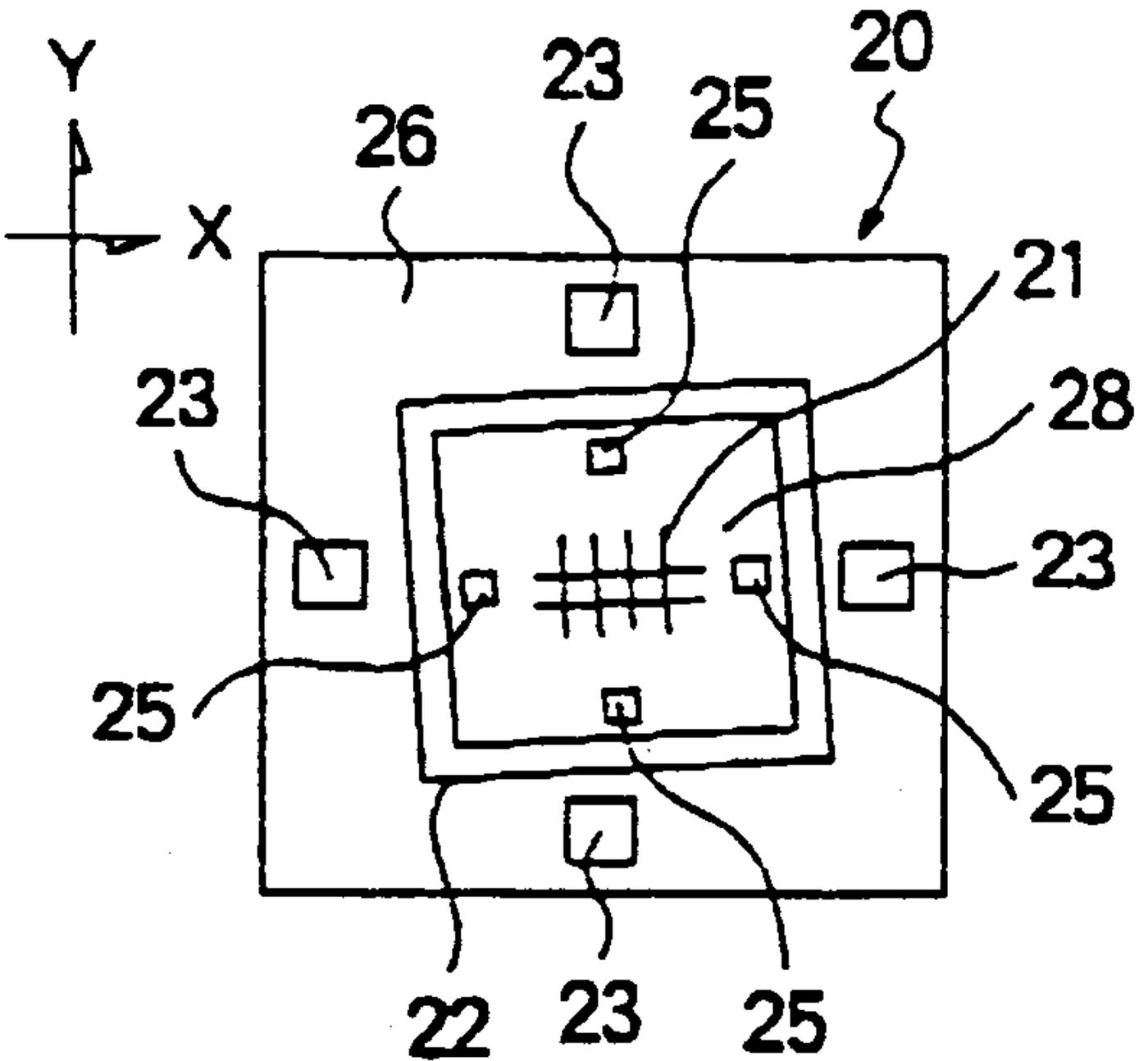
5



6a



6b



6c

