

(19) (KR)
(12) (B1)

(51) . Int. Cl. 6 (45) 2002 03 20
H01L 21/00 (11) 10 - 0317756
 (24) 2001 12 04

(21) 10 - 1993 - 0024606 (65) 1994 - 0012484
(22) 1993 11 18 (43) 1994 06 23

(30) 07/945,185 1992 11 19 (US)

(73)

75265 13500

(72) .
75082 2563

(74)

1

(54)

(10) 가 (12) . (11) (12) (12) (12) 가

1

1a

1b A - A

1a

1c 1b

2a 2e

3

4a

4b

5

6

10, 50 :

12 ;

15 :

16, 2

18 ;

29 :

31 :

32, 33 :

41 :

45 :

(passive)

(ball)

3

()
가

1 5 20 mil

2

3

3

가

가

가

가

가

가

(heat sink)

1a (11)
(12) 가 , n 1 9 (10) n x n

1b 1a (15) A - A (16) (10) (10) (15) 1c

2a 2e (21) (21) (10) (11) 2a

2b , (13) (23) (2c) (22) (22)

2b , (18)

가 (16 17) , (16) /

2e

3 (30) (31)

(29) (32) (33)

(33) (34) (30) (32) (33)

(38) (36) (34a) (35)

3

4a (40) (41) (42) 가 가

가 (40) (41) (42) 가

2e

4b (45) 1a

(46) 가

5

가 , , , (52)

(50) (52) , (51) (52)

, (53) (50) , (50)

가 (50) , (50)

6

가

(57)

1.

(contact)

n x n

가 - n 1 , n x n

-

2.

1 ,

가

3.

2 , 가 가

4.

2 , 가

5.

$n \times n$, 가 가 - n 1
,

6.

5 , 가 가

7.

6 , 가 가

8.

6 , 가

9.

$$n \times n \quad - \quad n \quad 1 \quad - ,$$

$n \times n$

$n \times n$

10.

9 ,

가

11.

9 ,

가

12.

11 ,

가

가

13.

11 ,

가

14.

9 ,

가

15.

, n x n - n 1 - ,

, n x n

, n x n

16.

15 ,

가

가

17.

16 ,

가

가

18.

16

가

19.

 $n \times n$ $n \times n$

가

가

 $n \times n$

20.

 $n \times n$

(vacuum pick - up tip),

 $n \times n$

가

21.

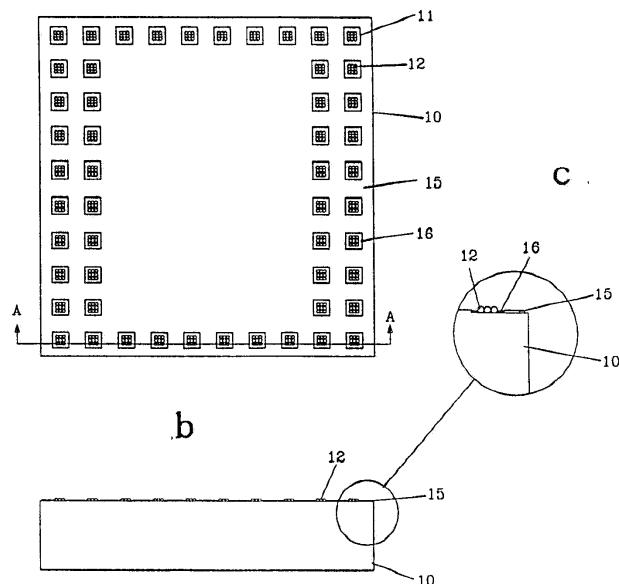
20

, $n \times m - 1$) $n \times m$

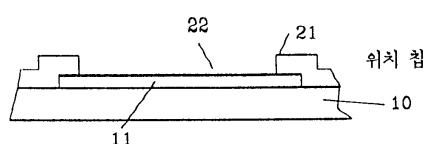
(

1

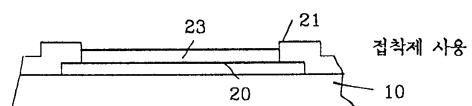
a



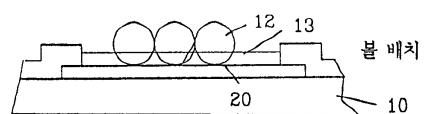
2a



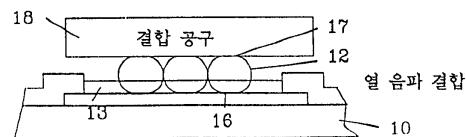
2b



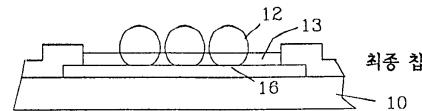
2c



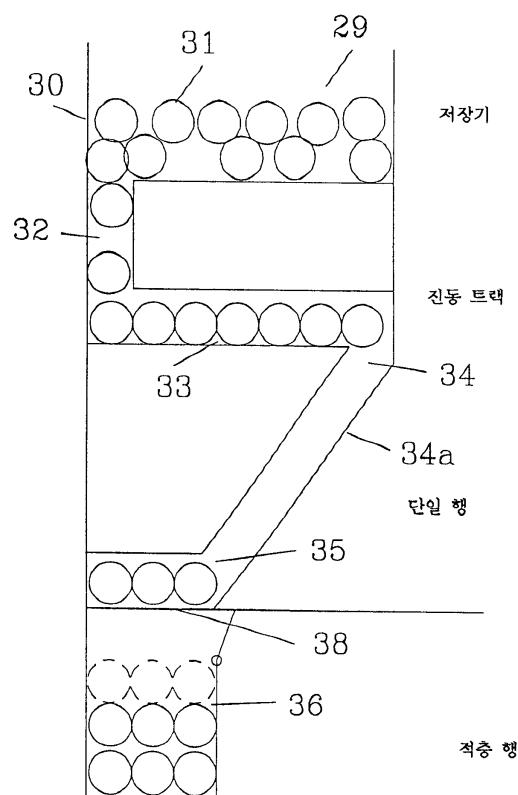
2d



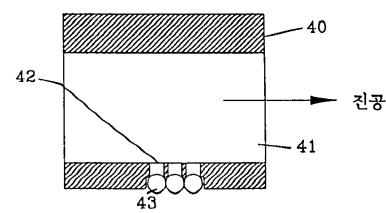
2e



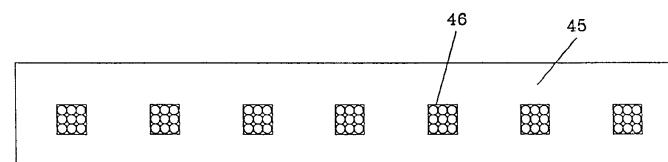
3



4a



4b



5

