

(19)
(12)

(KR)
(B1)

(51) 。 Int. Cl. ⁶
H01L 23/495

(45)
(11)
(24)

2002 10 19
10 - 0355796
2002 09 25

(21) 10 - 1999 - 0044646
(22) 1999 10 15

(65) 2001 - 0037242
(43) 2001 05 07

(73) 957

(72) 7 - 202
3 7 501
3 450 - 6

(74)
:

(54)

가 (floating)
; ;
, ;
(chip out) ;
, ;
가 ;
, ;
가 ;
가 ;

1 .
2 , 가 .
3a 3b 2 A - A B - B .
4 .
5 .
6 , 가 .
7a 7b 6 C - C D - D , .
8 .
9 .
- -
100,200; 2;
4; 6;
8; 10;
12; 14;
16; 20;
22; 24;
26; 28;
30; 40;
42; 50;
52; 54;
60; 70;
80; 300;

가 (floating) (chip out) , ,

가 (mother board)

가 1 × 1mm ~ 10 × 10mm

MLF(Micro LeadFrame)

MLF 1 .

(2)가 (2) (60)

(4)가 (4) (8)가 (12)

(6) (6) (12)가 (10)가 (10), (12), (4)

(2) (12) (8) (12) (10)가 (10), (12), (4)

(40)가 (2) (300) (matrix) (100')

(2) (100') 09/176,614

(40) (100') 2 (60) 2 가 (30) (20)

(60) (70)

(20) (100') (10) (8) (22)

(22) (60) (40) (28)가

(28) (40)가 (24)가

가 , (' (42, flash) ') (28)

(26)가

(24) (100') (4) (2)

(26) (4) (2)

(100') (4) (20) (22)

(24) (28) (40)가 (100')

(4) (24) (28) (28)

(40)가 가 (100') (4) (14)

, 가 (28) (20) 가 (26) (100') (26) (28) (4) (42) (100') (26) (4) (42),

cting) , (42)가 가 3a 3b (20) (24) (300) (80) (26) (42)가 (42) (28) (80) 3a 'E' (100') (20) (30) (eye) 'S'

(42) (40) 가 가 (100')

, 4 가 (300) (52) (50) (4) (54) (100') (8) (10) (42) (300) (52)

, (54) (300) (80) (300) (crack) 가 (300) (8) (70)가 (60) (60)

(sweeping)

MLF 가

가

가

가

가

가

가

가

가

가

가

가 가

5

(100)

(4)가

(2)가

(2)

(6)

(4)

(60)

(6)

(8)

(12)가

(8)가

(12)

(12)

(2)

(2)

(8)

(12)

(10)

(8)

(2)

(20)

(10)가

(22)

(10)

(40)가

(4)

(20)

(22)

(2)

(4)

(20)

(22)

(10)

(2)

(4)

(14)

(2)

, 6 (4) (20) (22)
 (22) (24) (40)
 (20) (24), (22) (4) (22)
 (4) (6) (20) (28) 가
 (52) (50) (20) (4) (42)가

(100) (4) (20) (26) (4)
 (20) (22) (2) (4) (6)
 (22) (2) (22) (16)가 가 ,
 (42) (20) (22) (4) (22)
 (4) (20)
 (4) (52) (50)
 (42)가

, (30) (20) (100) (40)가
 7a 7b

(30) (20) (100) (10) (22)
 (4) (30) (22) (40) (22)
 28)가 (100) (60), (4) (20) (100)
 (24) (100) (26)가 (22) (100) (c)
 (10)가 (100) (4) (22) (100)
 hamfer)

7a , 6 C - C (100) (4) (20) (22)
 (4) (40)가 가 ,
 (42) (4)

, 7b , 6 D - D (40)가 (4) (20) (22)
 (4) (6) 가 가 ,
 (42) (20) (22) (4) (42)
 (20) (22) (4)

(20) (22) (10) (4)
 (6) (6) (6)
 (42)

8

(100)

(100) (52) (100) (50) (52) (42)가
 (100) (50) (100)((4)) (54) (100)
 (10) (4) (10) (4) (80)가
 (100) (10) (4)

9

(300)

(20)

(6) (8)가 (4) (14) (4) (16)
 (100) (4) (26) (8) (10)
 (20) (24) (100) (10)
 (20) (22) (100) (10)
 (100) (8)가

(16)

(24)

(26)

(100)

(14)

(14) , 9
 (16) (14) ,

(10) , (100) (12)
 (24) (8) (26)

가

가

가

가

가

가

가

(57)

1.

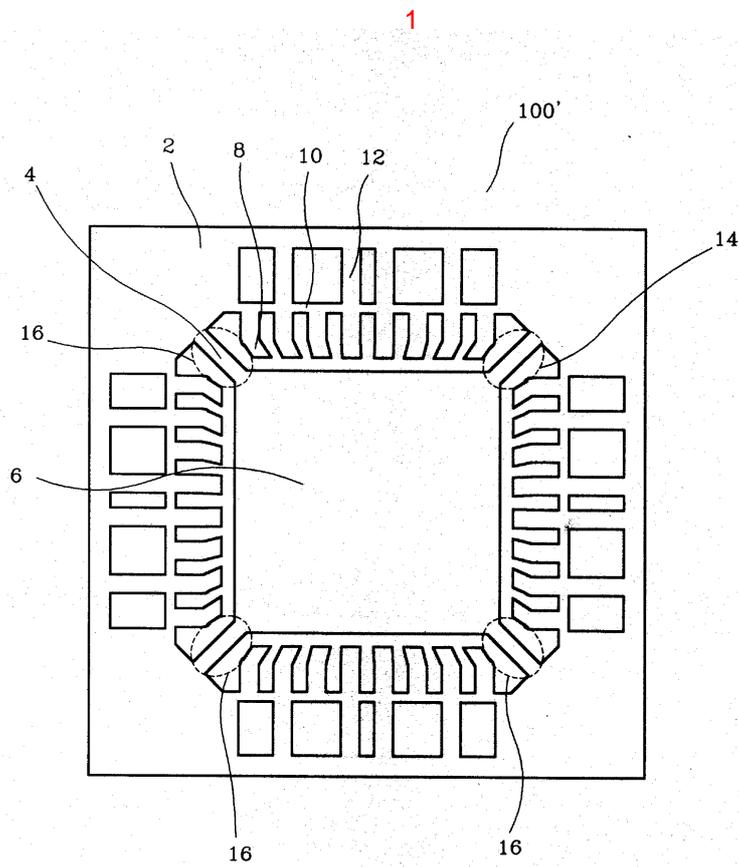
;

가

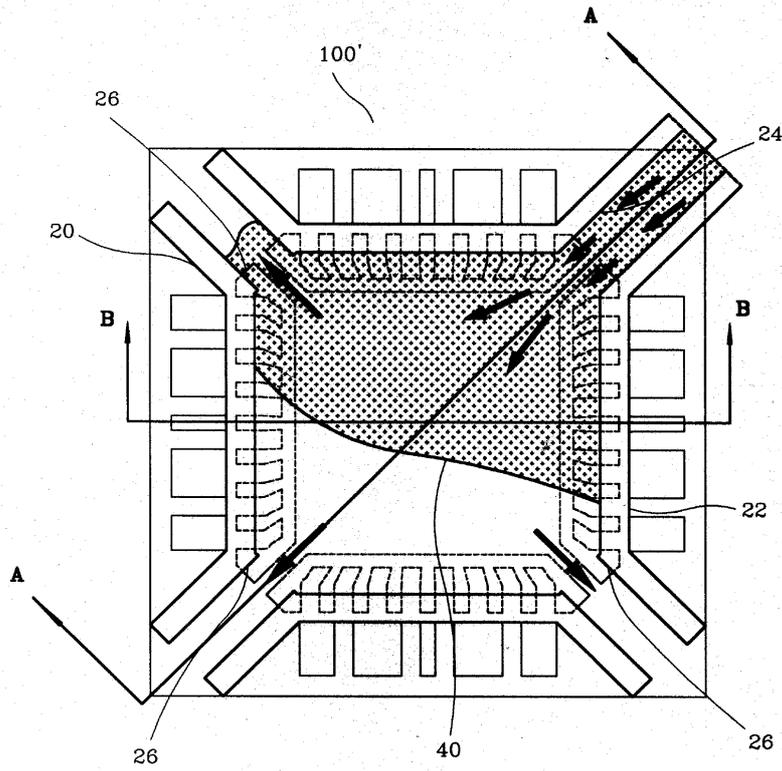
가

가

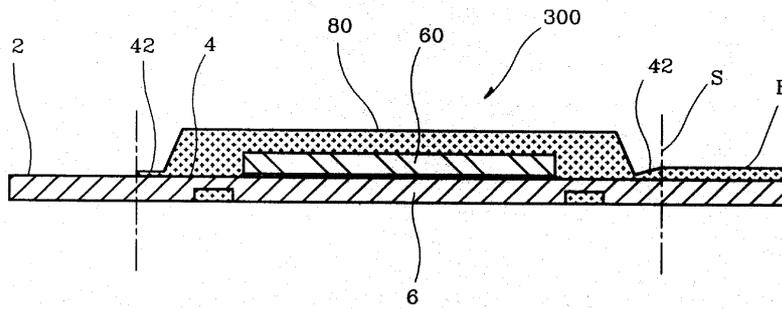
2.
1 ,
가
3.



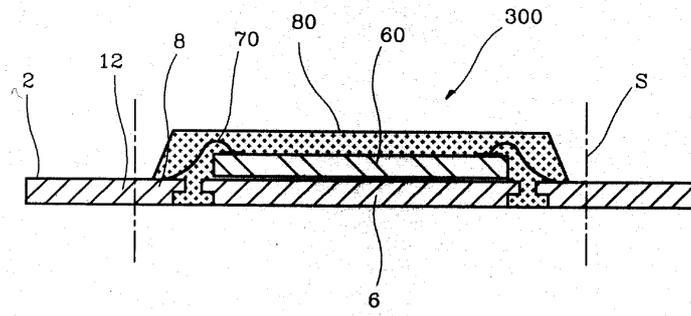
2



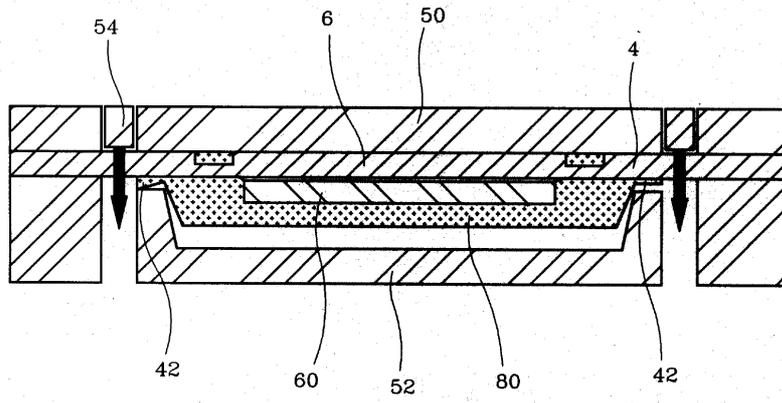
3a



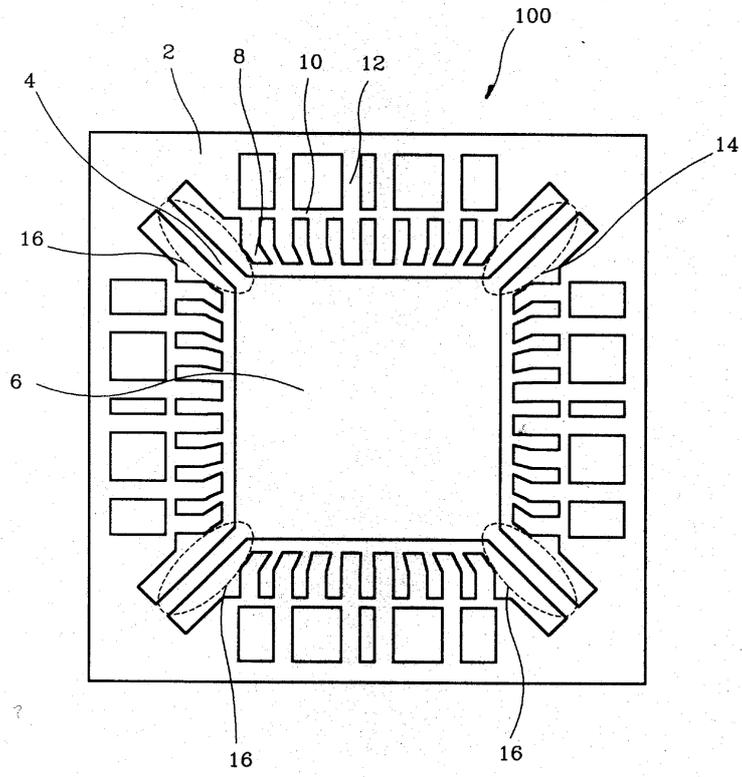
3b



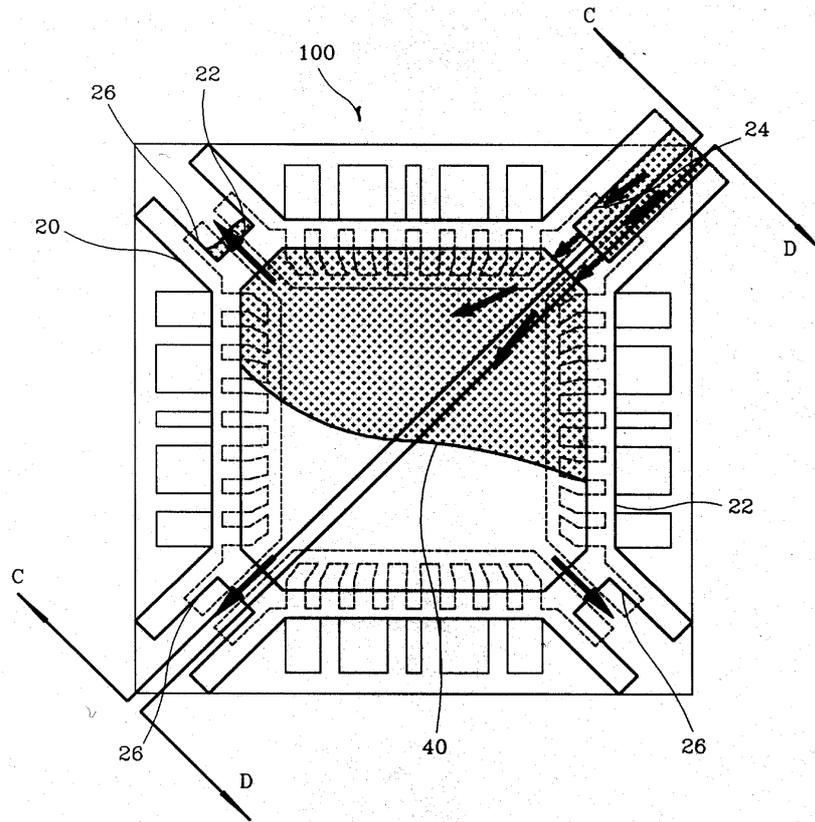
4



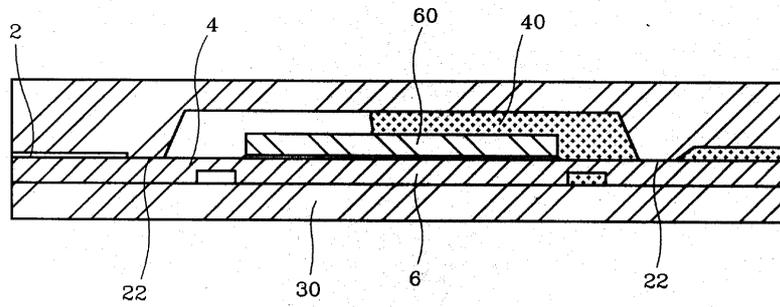
5



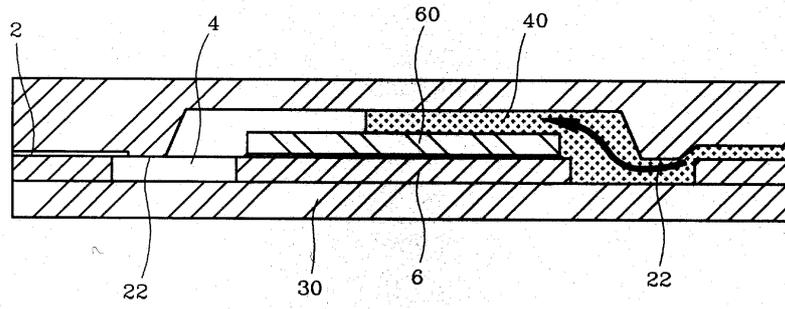
6



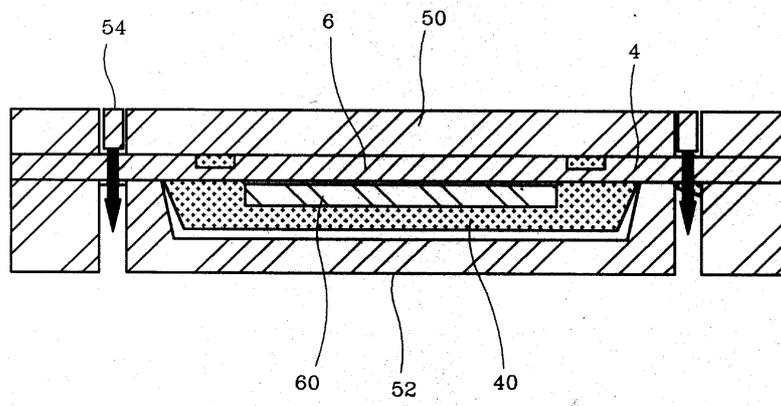
7a



7b



8



9

