



(2) (113) (113)가, (114) (114) , (117)

IC (1) (113) (110) (Sa) (2)

(W) (C) (W) (113) IC (1) 가

(P)

11 13 (D, D1 D2) (C) (20)

(224)( 12)가, (20) (114) (214)가, (20)

(20) (214) IC (1) , (217) , 11

Sb 가 (1)

12 13 (D1 D2) , (20) (214) 10 IC (1) 2

(224) IC (1) 1 , (20) (D1) , (20)

(30) (20) , (24)

(214, 224) , 12 ( ) , (24)

(20) (224)

(25) (D2) (20) (26)

(C) (D, D1 D2) , 5,216,278 ASIC amp;

EDA 1993 3 , 9 - 15 , 'OMPAC'

(C) (D, D1 D2) , 가 (110)

(20)

, IC

, IC

2 ,

가 IC 가 .

2 3 가 .  
 가 , 가 가

1a 1c , 1b , 1c 1a x - x .  
 2a 2b , 1 , 2a , 2b 2a x  
 - x .

3 , 1 .  
 4 , 2a 2b 1

5 , 2 .

6 , 3 .

7 , 3 4  
 (f) .

8a 8b , 5 , 8a , 8b 8a l  
 - l .

9 , 6 .

10 , .

11 , 10 .

12 , 10 , .

13 , 10 , .

1a 9 , .  
 1a 1c , 1b , 1c 1a x - x , 2a , 2b 2a x - x  
 , 2b , 1 , 4 2a 2b , 2b 2a x - x  
 , 3 1 , 5 2  
 , 6 3 1 , 7 3  
 4 , 8a 8b , 8a l - l , 5 9  
 6 .

1a 1c ,  
 10 가 10 ,  
 (11) IC (12) (12)  
 (13) IC (13) (11)  
 (10) (15) (14) (11)  
 (16) 1  
 (17) L Pa (10)  
 (12) IC 가 ,  
 (14) , IC ,  
 (15, 16)  
 (10) , IC  
 IC 4  
 (13) (12) 4 (15, 16)  
 (10) 4 , 2 3 ( 가 )  
 2a 2b , 1  
 2a 2b , A 1 가 A , IC  
 (1A) (C) IC (1A)(IC 1 ) (10) IC  
 (2)가 (2)가  
 IC (1A) , 1a (10) (12) , (Sa)  
 (2)가 (A) (W) (13) (13) IC (1A)  
 (Pa)  
 3 (10) IC (1A) (B) , IC (1B) (10) , (2) (C)  
 13 IC (1B) (10) (Pb)  
 (15, 16) (A) (B) , (10) (C)  
 (15, 16) (114) (15, 16) (A)  
 (B) 2 , 3 , (A)  
 가  
 (A) , (Pa) , (10) , (15, 16) (A)  
 (Pa) , (B) (10) (A)  
 가 0.4mm , (Pa) , (10) , (15, 16) (A)  
 가 0.6mm , (B) (10) (A)  
 가 0.3mm .  
 4 9 ,  
 4 , 1 , (M1) , 3  
 (A1, A2, A3)( 가 A , A1, A2, A3 )  
 (Sb) (A1, A3) (15) (A2)  
 (16)  
 (M1) , , (A1, A3) (15) ( )

(A1, A3) ( )  
 (A1, A3) (15)  
 (A2) (16) (M1) (A1, A2, A3)  
 (14) (30)  
 3 5 (30) 8 2 (M2) (M2)  
 (A5 - A8) (M1) (A1 - A8) (A1 - A4)  
 (16) (A2, A5) (15) (A1, A3) (A3, A6)  
 15, 16) (16) (A4, A7)  
 (A5, A7) (15, 16) (16)  
 (A3, A8) (15, 16) (30)  
 (A1 - A3, A7 - A8)  
 6 3 (M3) 2 (B) 9  
 (B1 - B9)가 (15) (16)  
 (M3) (B3, B8, B7)가  
 가 (B)  
 7 4 (M4) (M4) 3 (B)  
 (M4) 가  
 (B2) ( ) (B1, B3)  
 8a 8b 5 (M5) (M5) 3 (15)  
 (B1 - B3) (B2) (15) (30) (B1, B3) (40)  
 (M5) 8a 3 (B1 - B3)  
 9 6 (M6)  
 2 (B1, B2, B3 ...) 5 6 2 3

가

가

가

2

3

(57)

1.

1 2. ,

3.

1 4. 2 , 3 2 ,

4 5. ,

4 6. ,

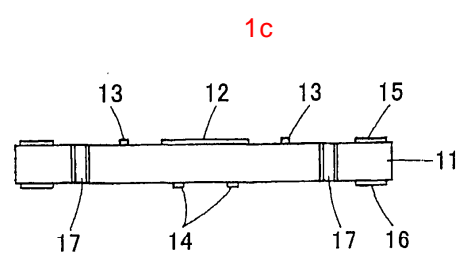
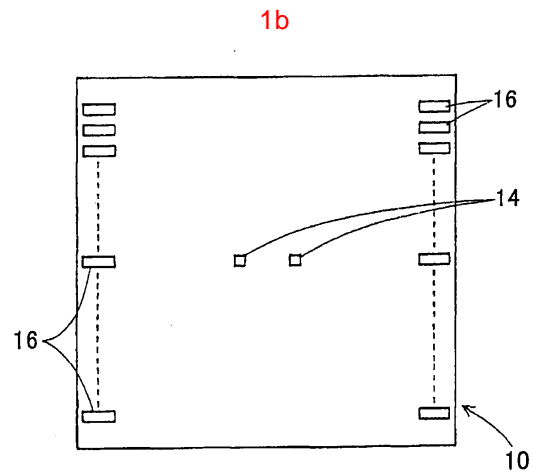
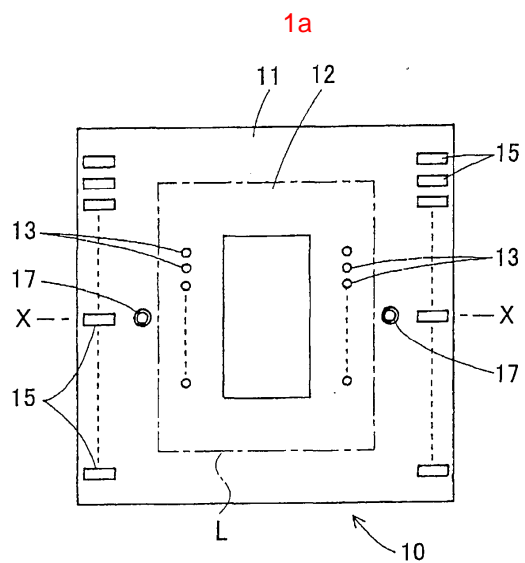
4 7. ,

4 8. ,

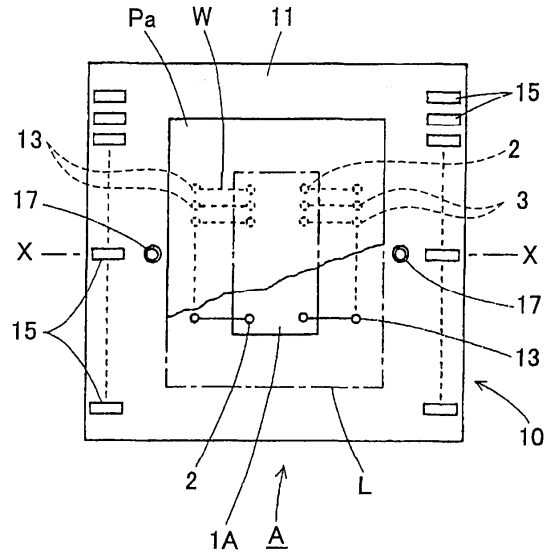
4 9. ,

가

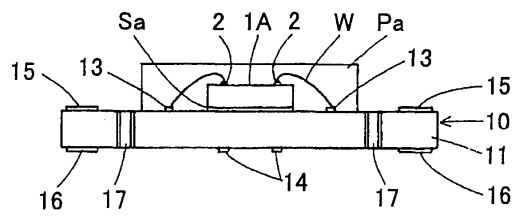
1) ,	가	(10)	(15, 16)	1	(M
(1A)		(A2)	(A1, A2, A3, ...)	,	(A1, A3)
(15)			(16) ,	(30)	(40)( 8b)
(Sb)					



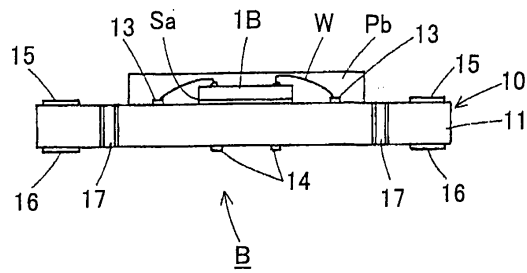
2a



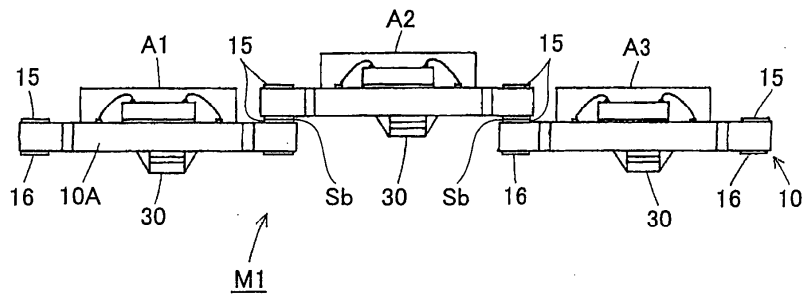
2b



3

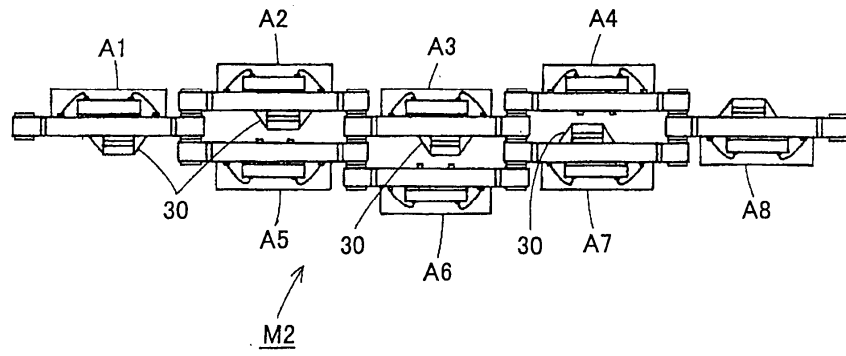


4

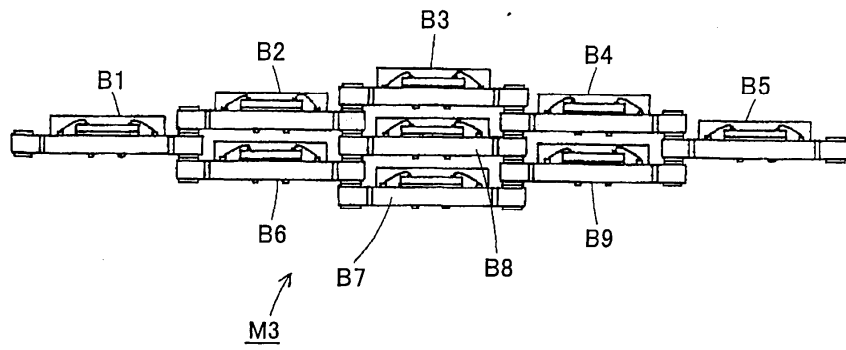




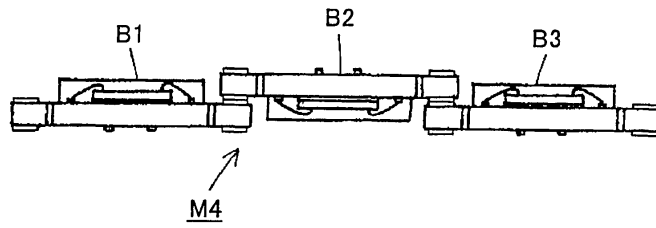
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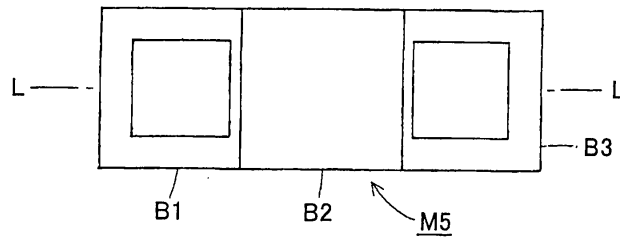
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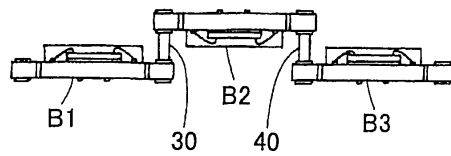
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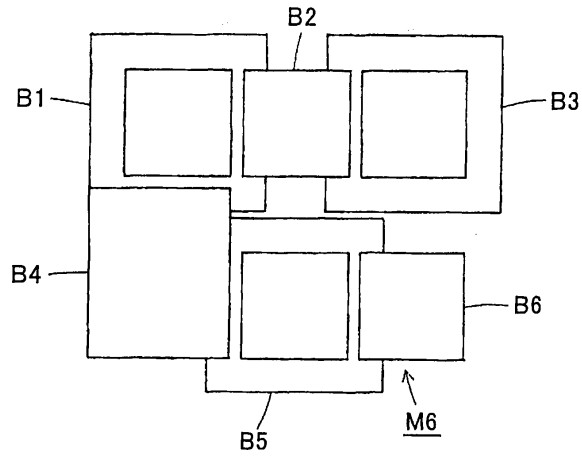
8a



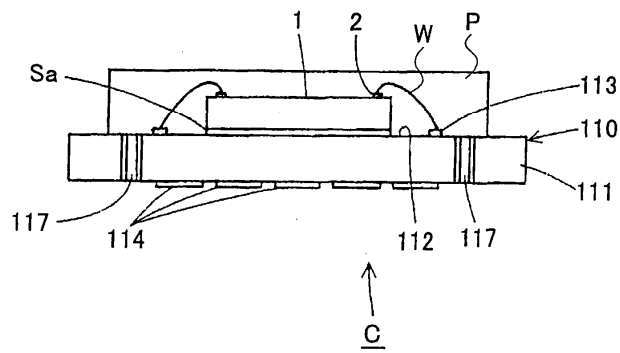
8b



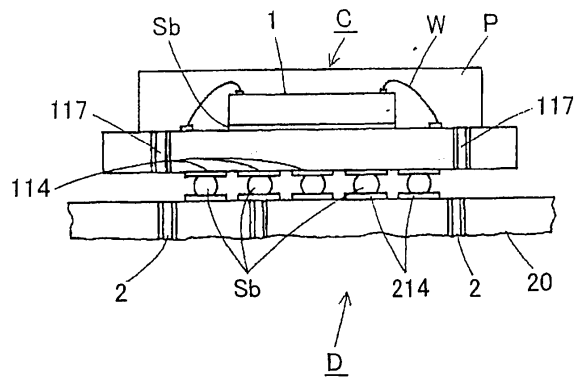
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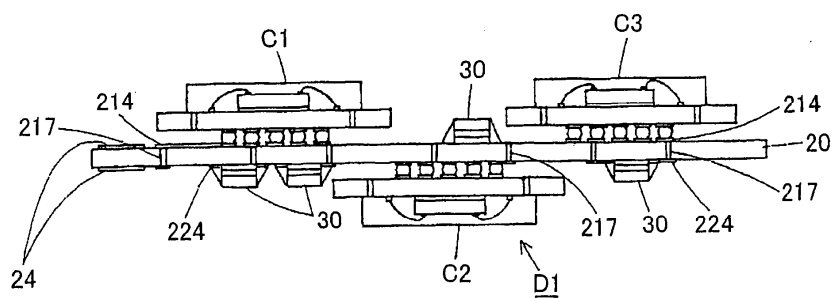
10



11



12



13

