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(12)

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(43)

10-2004-0064224
2004 07 16

(21) 10-2004-0001081
(22) 2004 01 08

(30) JP-P-2003-00003505 2003 01 09 (JP)

(71) 가 가 가 80
가 가

(72) 가 가 80 가 가
가 가

(74)

:

(54)

1 2 , 1 2 ,
1 2 ,
.

11

, , , , , .

1 .
2 1 .
3 .
4 .

(1A) AC 100 V (4) , 3000 V (boost) (2)(')
 (power transformer)(4)(') ()
 5) (1A) (2) (4) ()

(2) (4) (1A) (2) (4)
 (1A) (80) (90) 가 (1A) (1A)
 (2) (4) (磁界) (90) 가 (1A) (1A)
 가 (80) (90) (1A) (1A)

4 (2)(AC 100 V 4000 V (1A)
 (1A) (2) , 5 (4) (1A) (4) (1A)
 6 (1A) (2) (4) (1A) (1A)

(proximity)' (2) (4) 2 mm
 가 .

8 (1A) (2) , 9 (1A) (1
 A) (4) (4) , 10 (1A) (2)

7 (1A) 8 10 (1A)
 , 8 10 (electric potential)

(2) (4) 가 (1A)
 (miss-fire, 失点火)

가 가

1 2 (end plane) 1 2 ,
 1 2 ,
 (ring shape) 가 ,
 ,
 ()
 ,
 induction) 가 (

2 mm
 2 mm
 (dash shape)

가

2 mm , 0.3 mm
 2 mm , 0.3 mm
 2 mm
 2 mm

(dot) 가

가

2 mm , 0.3 mm
 2 mm , 0.3 mm
 2 mm

2 mm

, A 2 × B (A) , B

, A 2 × B (A 1 2)
 , B (sputter)가 , 가 가

1 2 1 2
 1 2 , A 2 × C (, A)

, A 2 × C (, A , C)

(sputter)가 , 가 가 .
 가 .
 , .
 11 1 (1B) , 12 (11) (10)
 , 1 6
 (1B) , (10) , (22), (24)
 (10) , (ceramic) (22) (24) 42 ((-))
 (10) (22) (24)
 (lid) (26, 28) (22) (24)
 (40) (10) (22, 24) (26) (10) (22)
 (24) (40) (10) (24)
 (10) (22) (()) (10)
 (22) (24) (10)
 (10) (26) (22) (23)
 가 (recess part)(27)
 가 (10) 가 (28) (24)
 (25)
 (1B) (23) (25) (23) (25) (space portion)
 (23) (10) ((11)) (A)
) (29) () ' 1
 (31)' (10) (23) (25)
 2 (33)' (10) (25)
 ' 3 (35)'
 (1B) (50A) (10) (10) , 1
 (31) (10) (50A) (carbon) 가 (40) , 0.5 mm
 (50A) (10) 가
 13 4 (1B) (1B) , (1B)
 (2) (1B)
 (2) , 2 mm (1B) (2) (1B)
 (25) (22) (23) (24)
 가 (2) AC 100 V (22) 4000 V (24)
 ()
 13 (1B) (2) (1B)
 8 (1A)

(1B)

1 (31) (10) (1B) (2) (10) (

50A) ,

) (10) () (2) 1 (50A) (31) (50A) (50A)

() () (2) () ()

(2) 가 (1B) (50A)

, (1B)

14 1 (1B) (29) 2 (33) 3 (35)

(50A) (10) (29)

, 13 (50A) (10) (10) (29) 1 (29)

, (2) (29) (50)

A) (29)

2

15 2 (1C) 16 (1C) (10)

14 15, 16, 18 2 , 11, 12,

1 (dash) (1C) 1 (31) (10) (10) (dash)

(50B) , (50B) 180

10) 0.5 mm (50B) (50B) (16 (L)) , (

() , 0.3 mm , 2 mm

17 5 (1C) (1C) (1C) (4) (1C)

, (1C) (1C) (4) 가 2 mm 가

(4) (22) (23) (24)

(24) (25) () (4)가

17 (1C) (4) (1C) 9 (1A)

(1C)

1 (31) (10) (1C) (4) (10) (5

0B) ,

(50B) 가)가 (50B) (1C) , (4) ()
 (50B) , (1C) ,
 18 2 (1C) (50B) 45 (X) () ((line)) (50B) (10)
 (18) ()
 B) (4) (10) (29) (50) (17)
 2 (10) ()
 (50B) 2 (2 (33) 3 (35))
 (10) (29) (4) ()
 (50B) (29)
 3
 19 3 (1D) 20 (1D) (10) 11, 12, 14
 19 20 3
 1
 (1D) 1 (31) (10) (10)
 (dot) (50C) 180 (dot) (50C)
 (20 (R)) , () , 0.3 mm
 , 2 mm
 21 6 (1D) (1D) (2) (4) (1D)
 (1D) (2) (4)
 2 mm 가 , (1D) (1D) (2) (4) 가
 (1D) (2) (4)
 (22) (24) , (22) (23)
 (24) 가 (25) (2) (4) 1 2
 21 (1D) (2) (4) (1D) (1A)
 , (1D) 10
 1 (31) (10) (1D) (2) (4) (10) ()
 50C) , ()
 가 (1D) (50C) (2) (4)
 (1D) (50C)
 (29) (50C) 14 18 (10)
 , 21
 19 20 (10) ()

10) (50C) 3 (2 (33) 3 (35)) (; (2) (4) (29) () (50C) 가 . (29)

22 4 5 (1E) (1F) 4 (1E) 5 (1F) (A, B, C)) 4 (1E) 5 (1E) 5 (1F) 22 , 11, 12, 1 4 1 22 4 5 , 11, 12, 1

4 (1E) 4 (1E) (10) , (22), (50D) 가 , (24) (50D) (1E) (10) (10) ,

4 (A) , B (1E) A 2 × B (50D) , A (29) (22 (B)) (23) (25) (22

23 (1E) . 23 4 (1 E) . (1

1 , A > 2 × B (1) . 24 1

4 (A) (1E) A 2 × B , (B)가 (A) (B) (10) (sputter)가 , (29) (50D) . (29) 가 .

5 (1F) A 2 × C (10) , A (29) (2 (A) , C) (10) (23) (25) (1F) (1F) , (10) , (22), (24) . 5 (1F) (1F) ,

25 (1F) . 25 5 (1F) .

2 , A > 2 × C (2) . 26 26 2

5 (A) (1F) (A) (C)가 A 2 × C , (C)가 (A) .

9) 가 (10) (sputter)가 (29) 가 (2)

가

2003 1 9

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가

가

(57)

1.

1 2 (end plane)

1 2
2

1

2.

1

(ring)

3.

2

2 mm

4.

1

5.

1

6.

1

(dash)

7.

6

2 mm , 0.3 mm .

6 **8.** ,

(transformer) 2 mm .

1 **9.** ,

(dot)

9 **10.** ,

2 mm , 0.3 mm .

9 **11.** ,

2 mm

1 **12.** ,

A $2 \times B$ (, A) , B .

13. ,

1 2 ,

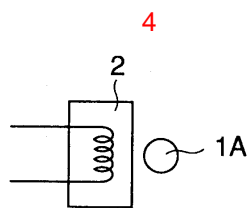
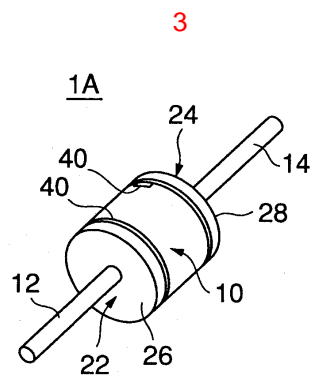
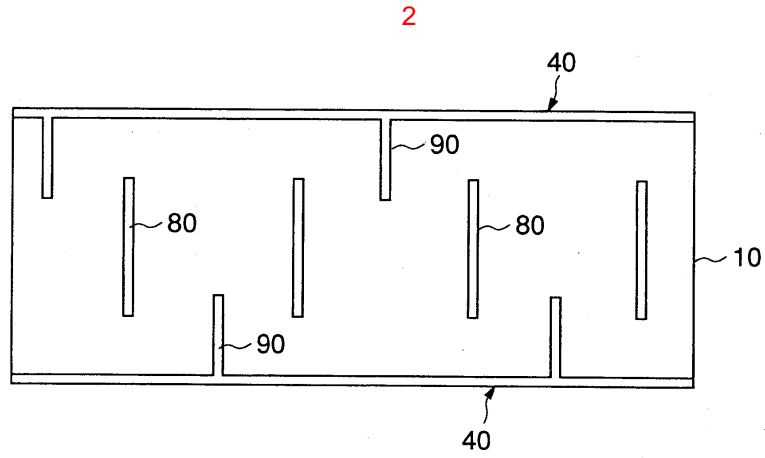
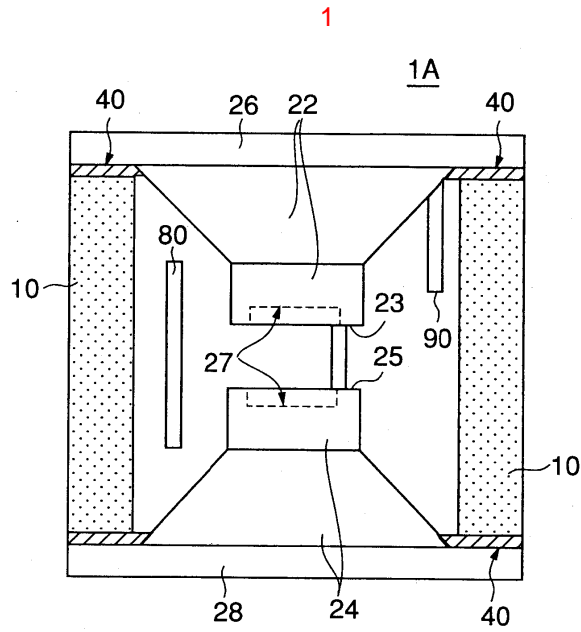
1 2 ,

1 2 ,

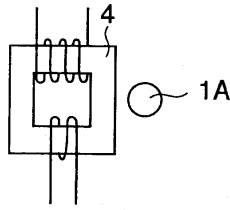
A $2 \times C$ (, A) , C .

14. ,

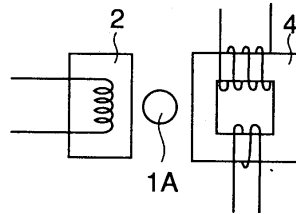
13 ,



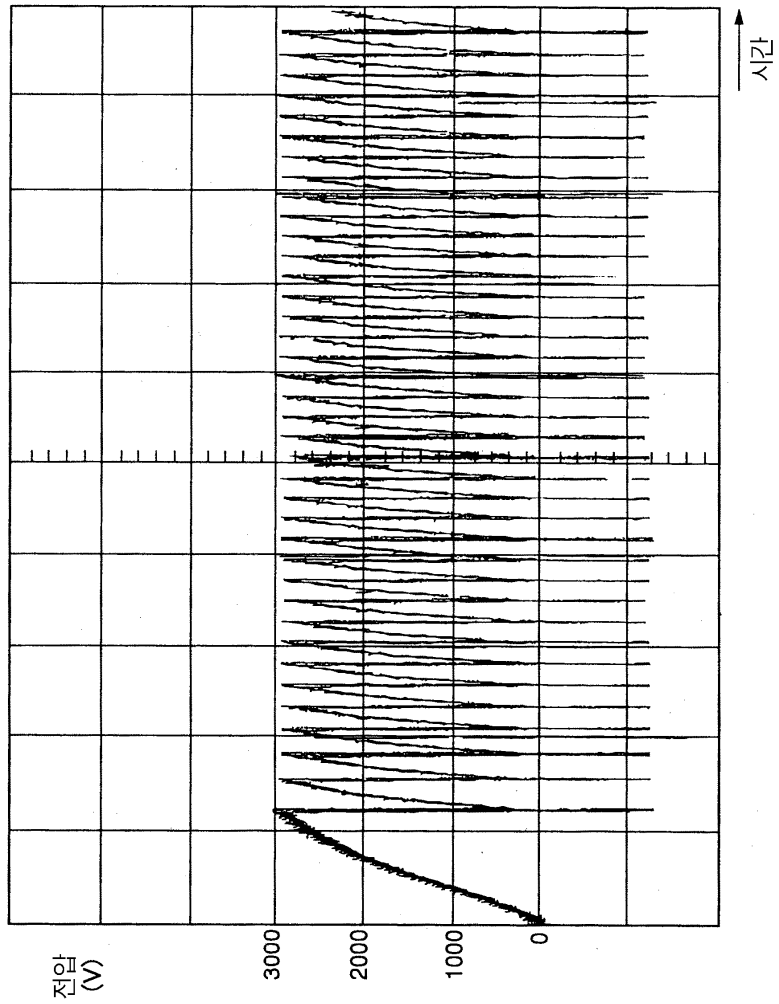
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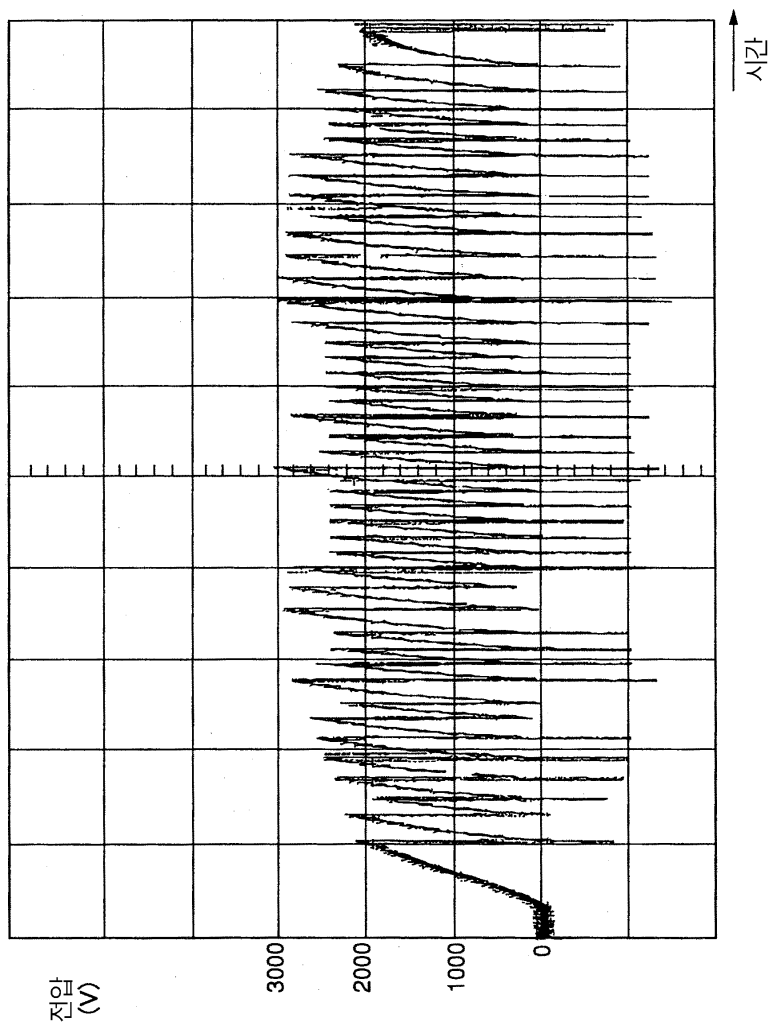
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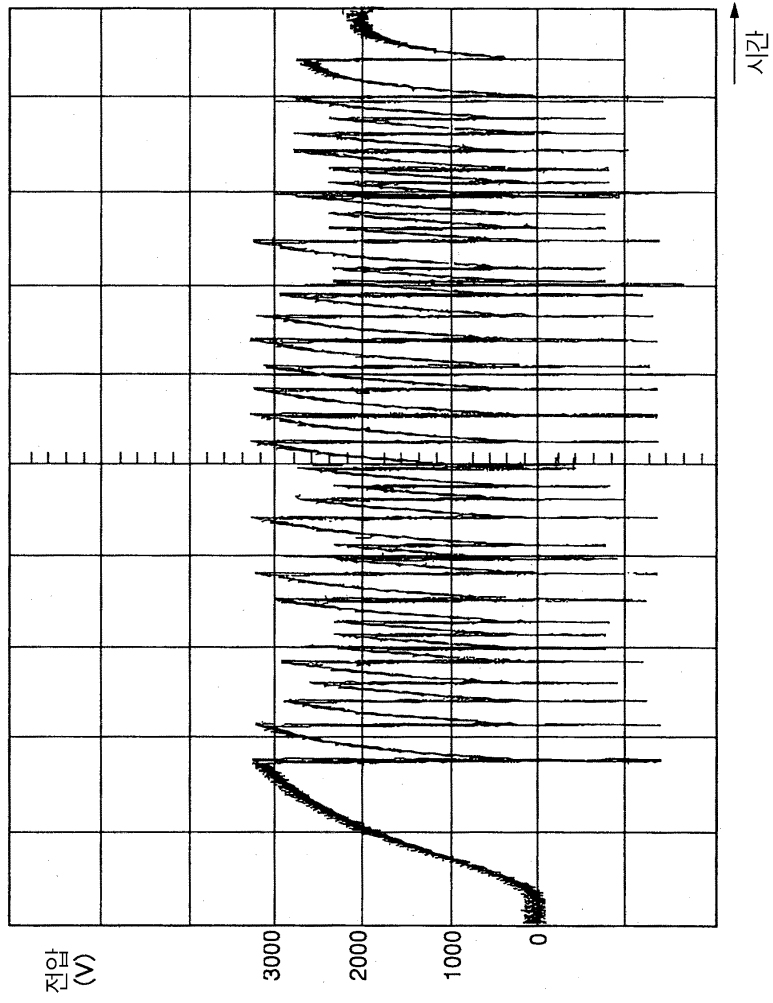
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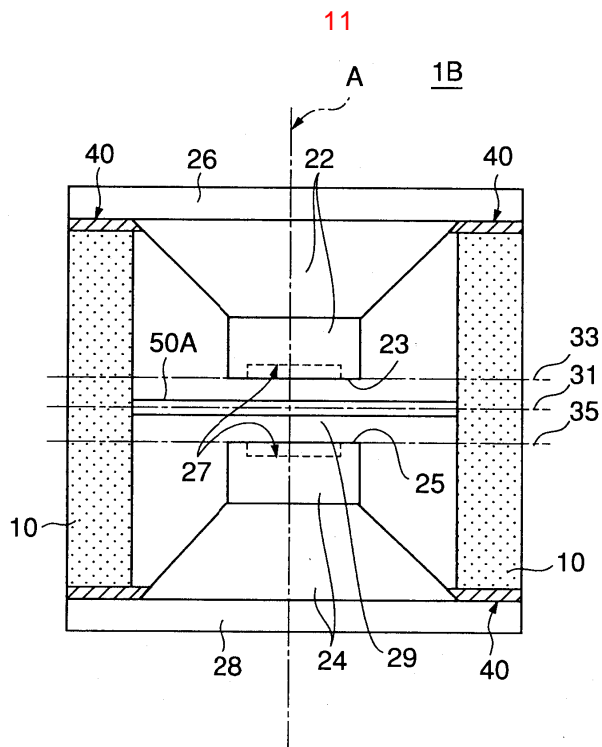
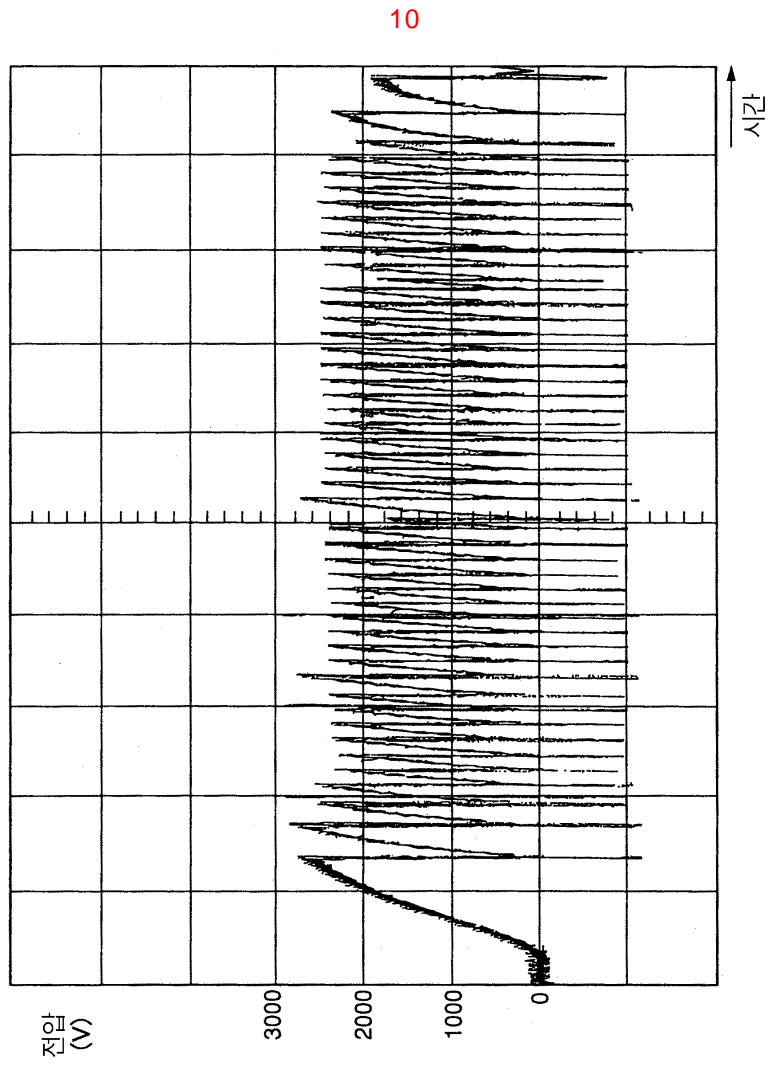


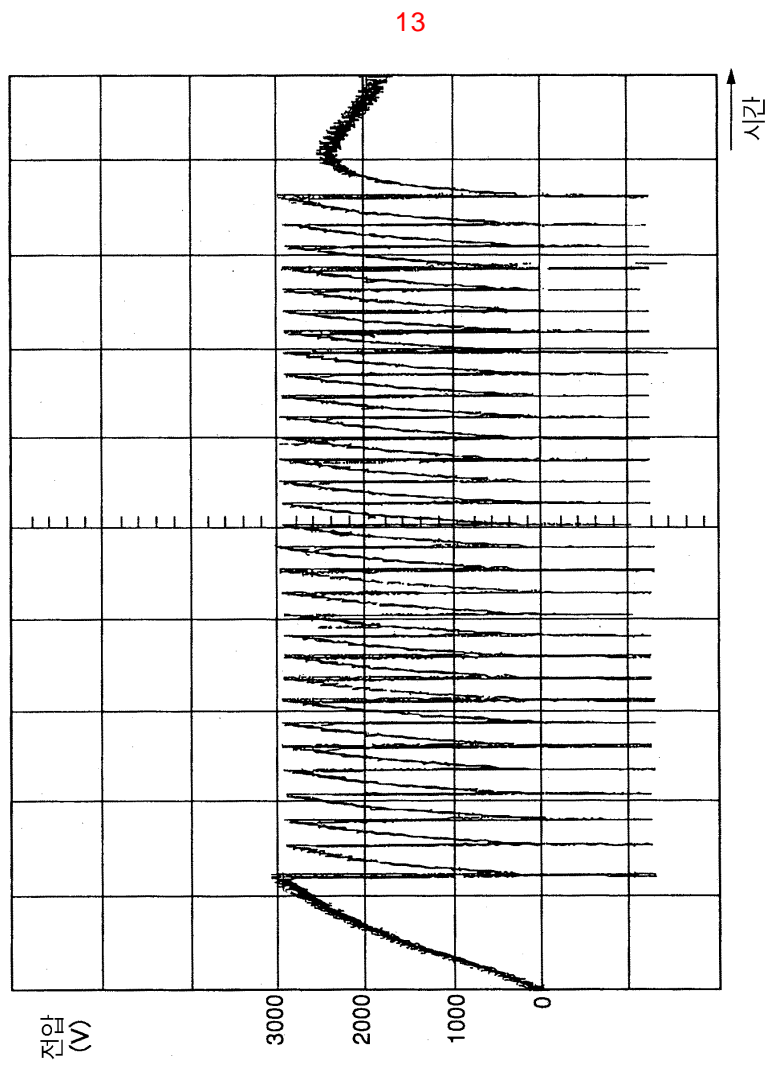
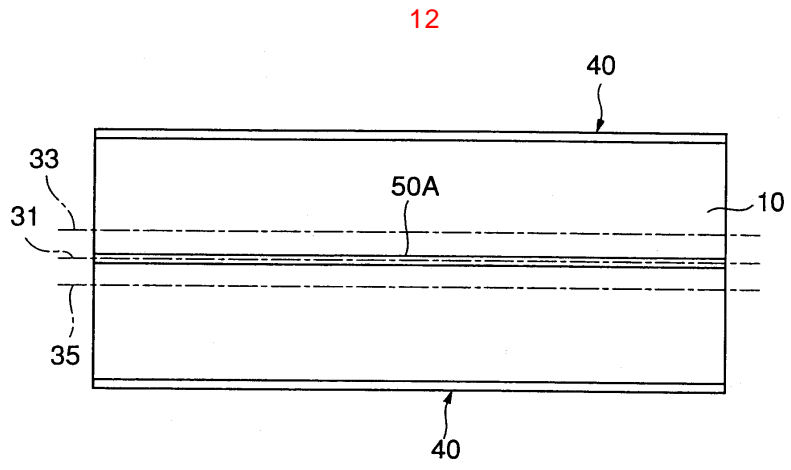
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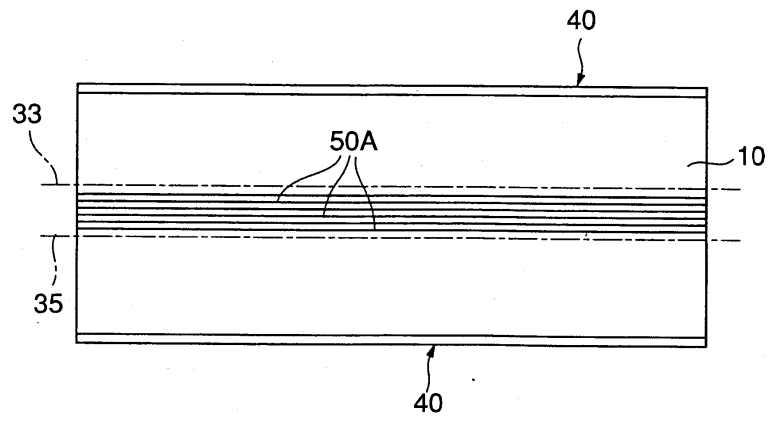
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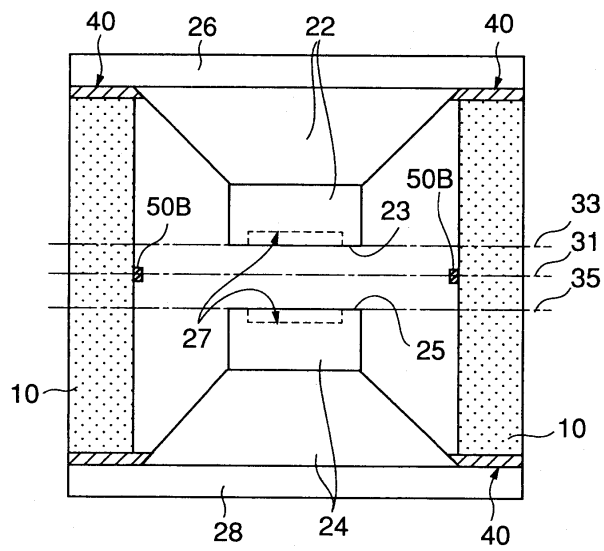


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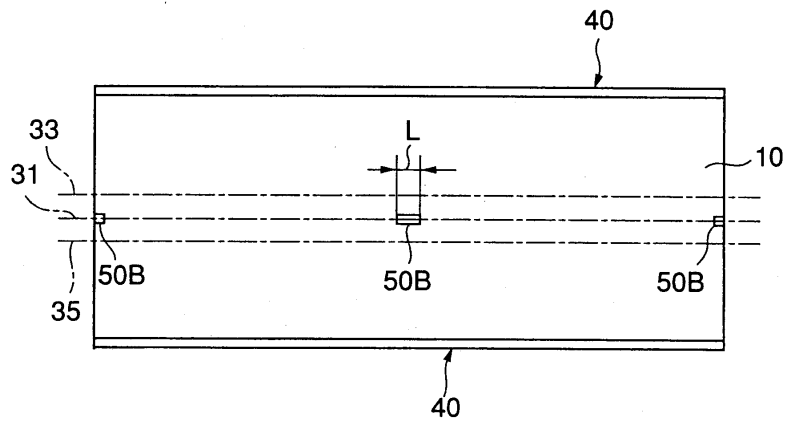


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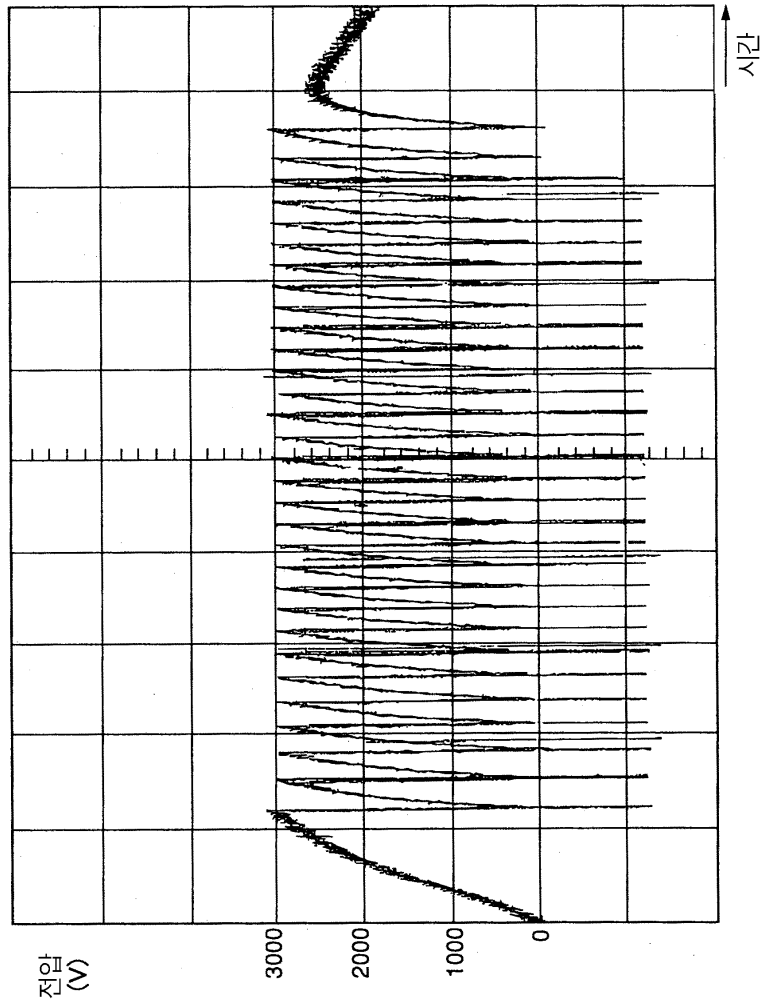
1C



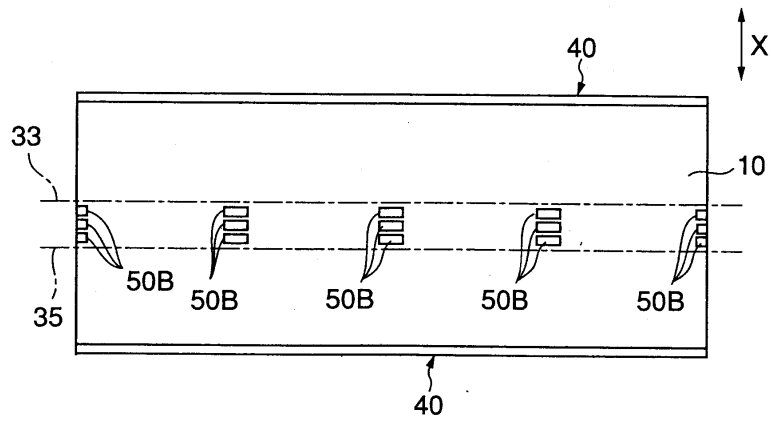
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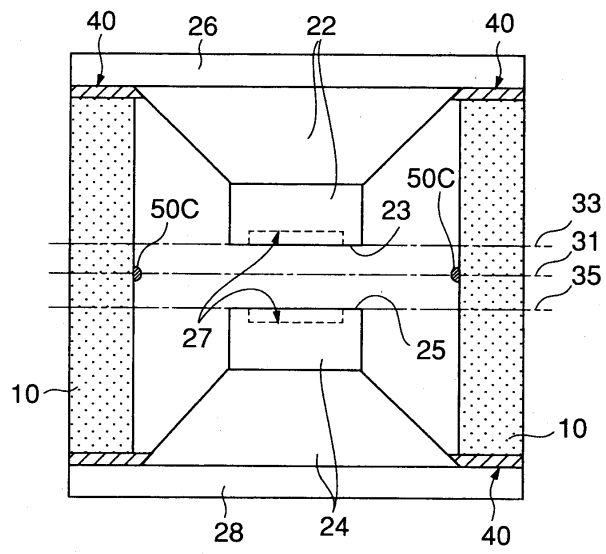


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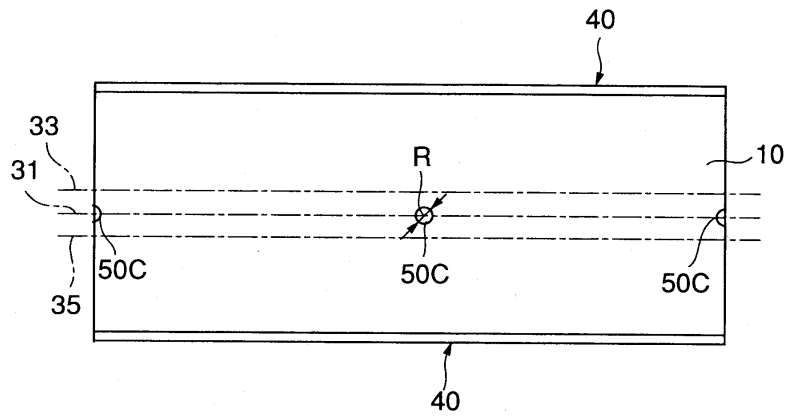


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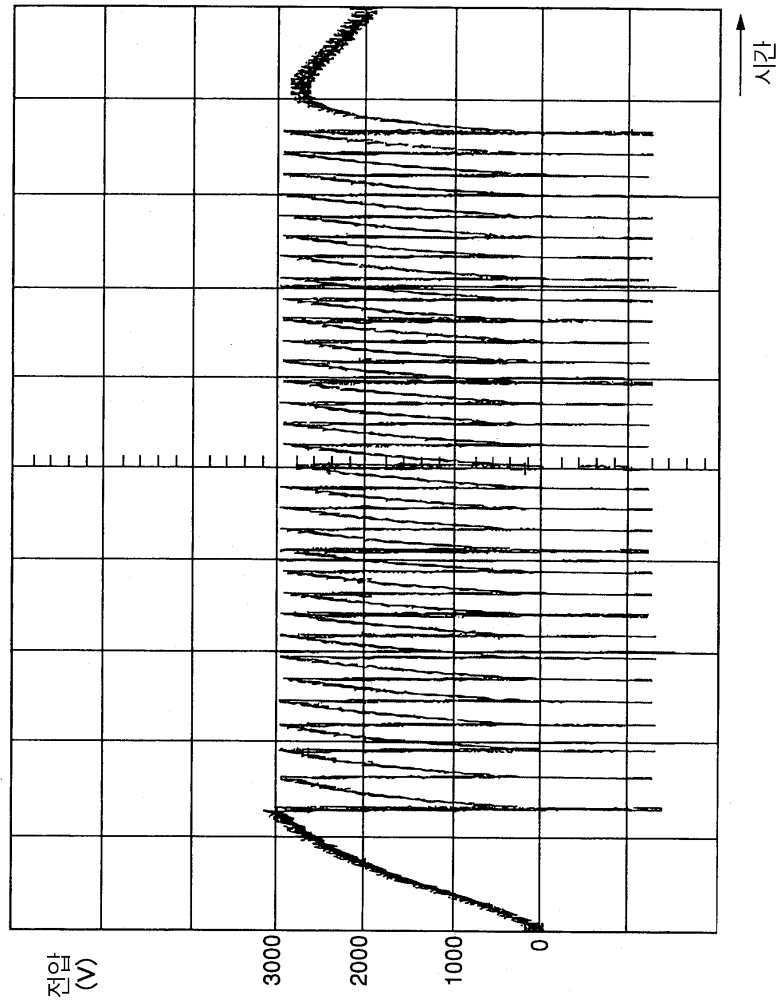
1D



20

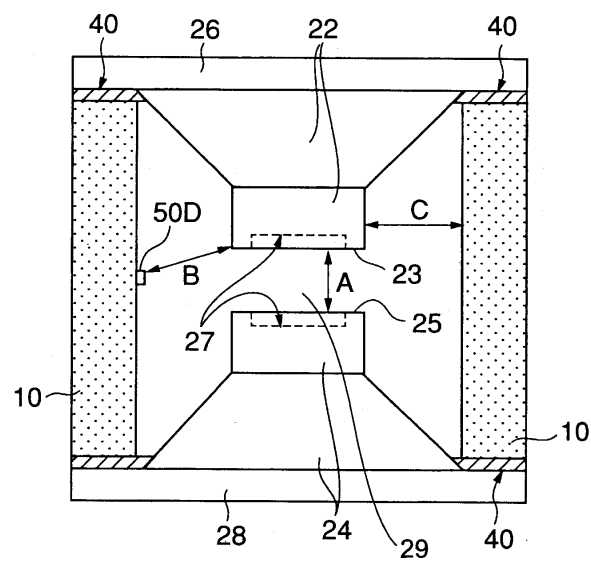


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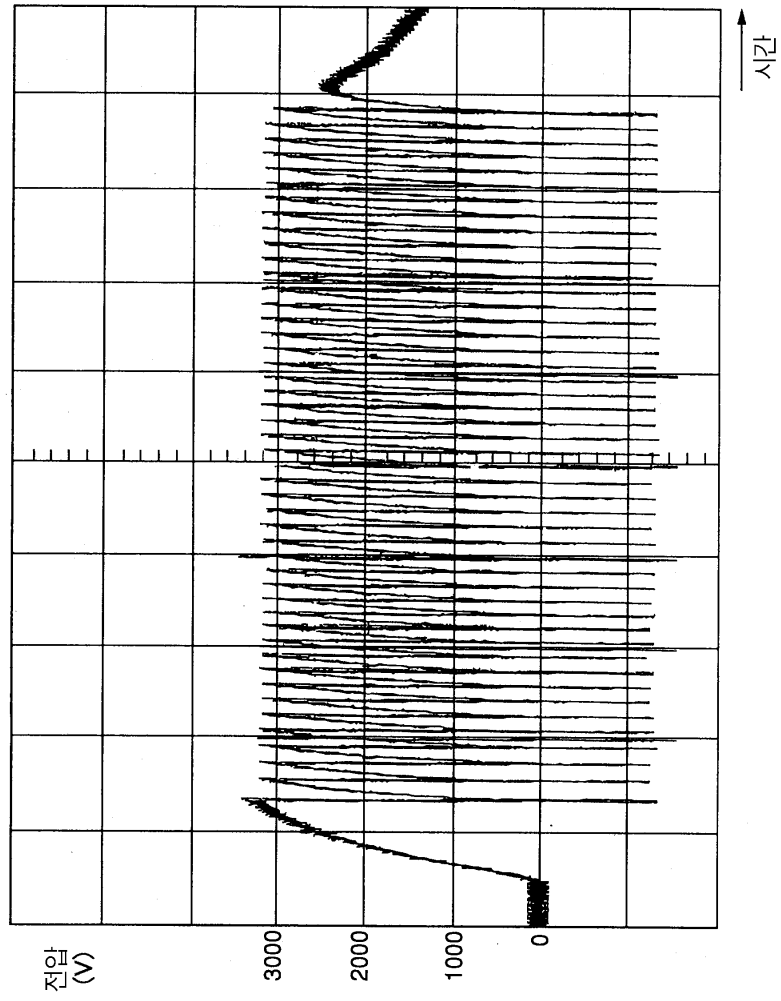


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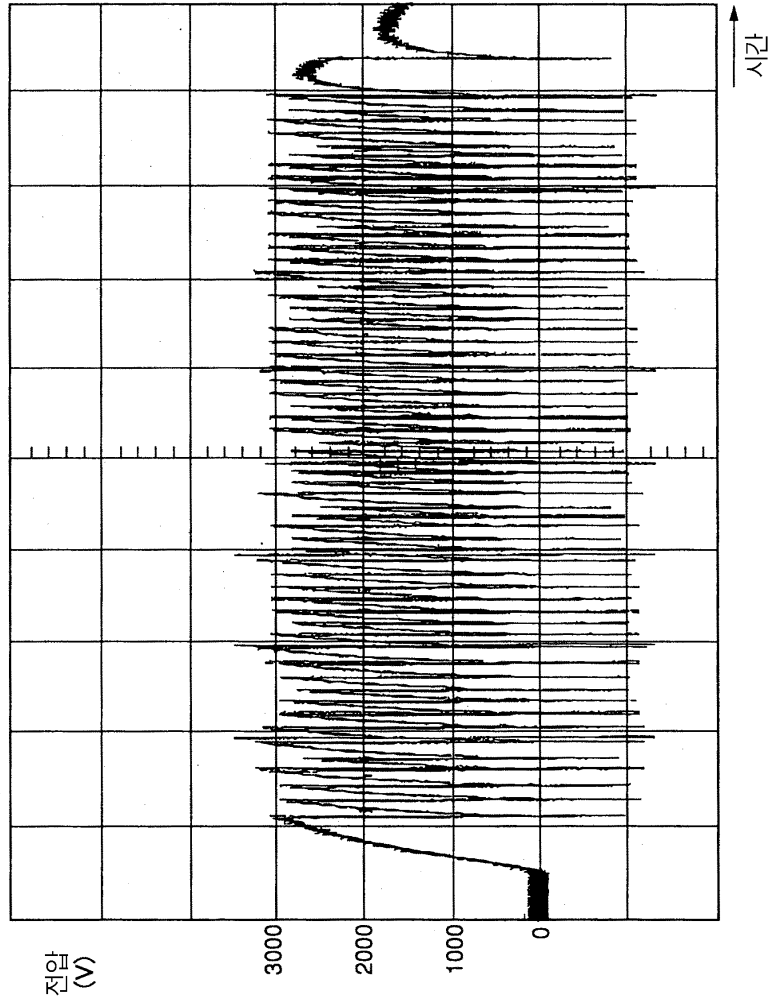
1E,1F



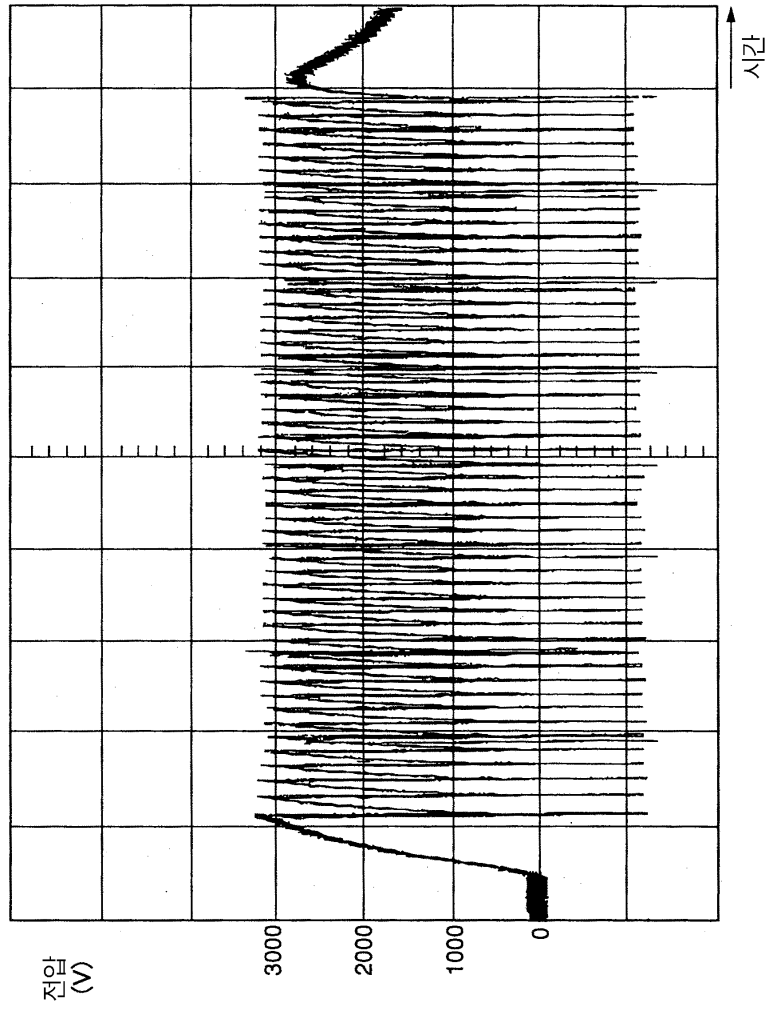
23



24



25



26

