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(KR)  
(B1)

(51) 。 Int. Cl.<sup>7</sup>  
H02K 15/02

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(24)

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10-0406101  
2003 11 05

(21) 10-2001-0003425  
(22) 2001 01 20

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2001 09 07

(30) 2000-046175 2000 02 23 (JP)

(73) 가 가 2 2 3

(72) 2 2-3 가 가

2 2-3 가 가

가 2 2-3 가 가

2 2-3 가 가

(74)

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(54)

44) U (41) , (44) , (

1			1	
2	1	-		
3			1	
4	3	-		
5	4	A		
6			1	
7			1	가
8			1	
9			1	
10			1	
11			1	
12			1	
13			1	
14			1	
15			2	
16	15	-		
17			2	
18			6	
19	18	-		
20			6	
21	20	-		
22			7	
23			8	
24	23	-		
25			8	
26			9	
27	26	-		
28			10	
29			11	1
30			11	
31			11	
32			11	

33 11  
 34 11  
 35 11  
 36 11  
 37 11  
 38  
 39  
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 41  
 42 가  
 43  
 44  
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 48  
 < >  
 15,62 : 15b,62b :  
 16,63 : 39 :  
 40 : 41 :  
 42,42A,42E : 43A,43B,43C,43D :  
 44,44A,70 : 46 :  
 50 : ( ) 50a,81b :  
 50b,81a : 60,60A :  
 64 : 3 65 :  
 71 : 1 72 : 2  
 73 : 3 74 : 4  
 81 : 81a :  
 81b :

38 (7)가  
 (8)가 (1) (2) (3) (6) (7)가  
 (6) (7) (1) (3) (2) 가 (6) (4)가  
 (7) (9) (6) (11) (8) (10)가 (9)  
 (3) (18)가 (11) (17) (8)  
 (8) (12)가 (3)

(7) (13) , (13) (1  
 3) (20)(21) (20)(21) (22)(  
 (22)(23) 가 (22)(  
 23) (6) , (5) (7) .  
 (8) (15) , (15) (15)  
 (16a),(16b) 가 (16) .  
 (21) (23) S (20) (10) (9) (13)  
 (7)가 (12) , (16) 가 (22) N (4) (6)  
 (16) 가 (18)  
 (8) 39 40 39  
 , 40  
 39 (30)  
 가 (30)  
 (30a) 180 (30)  
 a) V (30b) , U (30  
 40 (15) , (15a)가  
 (15b) (15b) (15a)  
 (19)가 (15b)  
 (7)가 12 , (8) 36 (15b) 가 1  
 (30) (30b) 4 (15b) (15b)  
 2 (15b) (30a)가 (30)  
 1 (15) (30c)가 (15b)  
 (30) (30c) 가 , 3 (15b)  
 3 (16) Y (16) 4 3  
 2 (16b) (30) (30b)가 (15)  
 (15b) ( , 1 ) (16a) 3  
 (30c) (15b) ( , 2 ) (30)  
 ) (30c)가 ( , 3 ) (31) , 3 (15b)  
 3 ( , 4 ) (30) (30c) (30c)가  
 (15b) (32)가 2 (30)  
 (8) 41 48 (29)  
 41 , 42  
 (29) 가 , U (15b) (30) 2  
 (30b) 3 (15b) 4 (30a)가 (30)  
 1 (15) (15b)  
 , 3 (30c) (15b) 1 3  
 2 (30) (30c)가 43 44 (15b) 2 4 1 2  
 4 45 46 (27) 2 (27) (30) (30c)  
 가 , 2 (30) (30c) (3  
 0c) , 47 48 4 3 (30)  
 31) (32)가 (27) (28) (30)  
 , (16) .  
 3 Y

[illegible]

A , 6 , 4 3 - , 5 4  
 , 7 1  
 가 , 8 9  
 1 , 10 11 1 , 12 13  
 1 , 14 1  
 , 1 1 13  
 , 1 2 (39) (41)  
 (40)가 . (40) 가 2.5mm 1.5mm (41)  
 가 0.04mm, (R) 0.4mm  
 , 가 (40) (40)  
 (D) , (40)  
 (39) 가 (41) 3 4 (42)가  
 (D) 5 (41) ( )  
 (D) D = R - ( R - ) / 2 <sup>1/2</sup>  
 (D) 0.145mm  
 , (40) (42) 가 (44)  
 (44) 6 , 가 ( )  
 41) (45) 가 가  
 , (44) (50) 7 (50a) V (50b) (50) U  
 (50) , (44) (45)가 (50) (50c)  
 , (50) (50c)( 45) 가 39  
 , (50b) (30) 가 3 (15b) (50b) (50) 2  
 , (15b) 4 (50a)가 (15b) (50)  
 1 (15) , , (50c)  
 2 (50) (50) 3 (15b) 1 3  
 (50) (50c)가 8 9 (15b) 2 4 2  
 , 10 11 (27) (27)  
 4 (50) 가 , 2 (50) (50)  
 c) (50c) 12 2 13  
 (51) (52)가 , (50c) (61) 4 3  
 , 3 Y (60)가 (50)가 (50c) 3  
 (61) (15) (61) (15b) (15)  
 (15b) (61) , (50) (50b)가  
 (15) 2 (15b) 1 (50) (50c) ,  
 (61a) 3 (15b) 2 (51) 3 (15b) 4 (52)가  
 (50c) , (60) (8) 2 가  
 1 (40) (42) (40) (42) (40)  
 (44) (42) (40) (42) (40)  
 , (50) (15b) 가 (15b) (19)  
 가 ,

, 가 (40) (39)가 (41)  
 (41)  
 , ( ) 가 (41)  
 (41) 가 , 가  
 , (D)가  $D = R - (R - )/2 \frac{1}{2}$  (41)  
 , (16a) (50) (50c)가 ( )  
 , , U (50) (50c)( ) 45)가  
 (50) (50c) (50c) 가  
 , (50) (50c) (50c) (50c)  
 (50c)가 ( )  
 50c) (41) 가 , , ( )  
 가 , ,  
 ,  
 , (51) (52)  
 , 1 4 (50c) (27)  
 2 (50c) , , 2 (50c)  
 4 (50c) 2 (27) 2 (50c) 2 (27)  
 (50c) (27) (50c) (27)  
 2  
 15 2  
 , 16 15 - , 17 2  
 2 가 (40) (43A)  
 1  
 , 2 (40) (39)  
 (41) (40) (43A) ( ) 15 16 (43A)  
 . (40) 가 (41)  
 . 17 (41) (42A) (40)가 1  
 (40) 가 (41) U  
 , 가 1 가 (41)  
 , 가 2 (40) (43A)  
 1 , 가 가  
 , 2 (43A) , 가 가  
 1  
 3 1,2 (40) 가 (4  
 1) (41) , 3 (40) (41)  
 , 3 (41) (41)  
 가 ,  
 가  
 4 3 (40) (41) 4 (41)  
 (41) (41) 3  
 4 (41) (41) 3  
 5 3 (40) (41) 5 (41)  
 가

(40) (40) 가 가 (41)

5 (40) (41)

(41) 가 (40)

(41)

6 가

6 (40) (39)

(40) 6 2

6 18 21

, 18 19 (40) (40)

(46)

(40) (40) (39)

(41) , 20 21 (43B)

(40) 2 (43B) (41)

, (40) U 가 가

6 (43B) (40) 가

(40)

(15b) 가

7 7 22 (40) (43c) (41)

가 가 (40)

7 가

6 7 (40)가 (43)

c) (40) (15b) 가

가 가

8 8 23 24 (40) (40)

(55) (43D) (43D) (40) 25 3 (40)

5) (43D) (40) (55) (43D) 3 (5)

(41) 8 (43D)가 (55) (

9 9 8 (55) (43D) (41)

(43D) (42E) 가

9 26 27 (42E)가

8 가

10 10 28 (40) (44A) 가

(44A) (44A) (45A) 가

2 10 (44A) (45A) 가

10 (44A) (45A) 가

(45A) 가

(44A)



가 가

11 1 10 U 가 (50)

가 , 1 29 가 29

(62)

(62a)가 (62b) (62a) (62b) 3 (64) 2

96 (62b) (65) (70) 가 2가 1 4 (7

1 1 74) , 1 (71) (70) 1 91 6 (62b)

(1 ) (2 )

2 (72) (70) 1 91 6 (62b) 2 1

3 (73) (70) 1 91 6 (62b) 3

(3 ) (4 )

4 (74) (70) 1 91 6 (62b) 4 3

(62) 1 2 2 (72) (72a)

91 1 (72b)가 1 2 1 4 (74)

(74a) , 91 3 4 (74) (74b)가 1 4 (74)

(62) 1 1 (71) (71a)

91 2 3 (73) (73a) 91 4 3 (73)

(73b)가 1 4 (71 74) (70) 6 (62b)

(70)가 ( ) 1 4 (62b)

61 1 67 2 (62) 1 (71)

(70) 61 3 67 4 (62) 2 (73) 67 3

3 (73) (70) 2 (72) (70) 4 (74) (70) (73c)

(62) (71c) 2 (72c) 3 (73) (73c)

(73) 4 (71) (71d) , 4 (74) (74c) 2 (72) (72d)

1 (71) (71 74) 4 1 (65) (73c) , 1

1 (71) (71c) 2 (72) (72c) , 3 (73) (73c) , 1

(71) (71d) , 4 (74) (74c) , 2 (72) (72d) (N)

가 3 (73) (73d) , 4 (74) (74d) (N)

(0) 가 1 4 (71 74) (62b) 6 (65)

4) (63) , 3 (64) (65) 3 Y 2 3 (6)

(12) (12)

1 4 (71 74) (70) (62b) (62)

6 (62b) 가 ( )

(7) 6 (71) 2 (72) 180 가 3

(73) 4 (74) 180 (62)

(70) 가 (62)

가 , 2

(60A) 1 4 31 37  
 , 1 (40) (40) 31 37 1 2  
 , 가 (40) (40) (41) (40)가  
 (39) 가 (41) , 3 4 (40) (42)가  
 , (70) 31 (70) 31 가 (70)  
 , 12 32 가 33  
 (80) (70) 34 (81a) (81b)가 (81b)가 (6p)  
 (81) (81b)가 (81a) (81) (70)  
 (w) 6 (81) (80) (81b) 1 6 35  
 (81a)가 (80) (80) (81) 38  
 1 4 71 74 (83a) 36  
 30 ) spcc  
 (83) (19)가 (83) (83a) , 2  
 (80) 37 (a) (81b) (83a) (81) (81b) 37 (b) 2  
 (80)가 (83) 4 (83) (83) (19) (83)  
 (83a) (83) , 2 (80)  
 37 (c) 38 (62) (81) (65)  
 (41) 가 (81) (41)  
 (41) 11 (40) (42) (40) (42)  
 (70) 가 (70) (81)  
 (41) 4 (71 74) 1 (65) 1  
 , 1 3 (71),(73) (71a),(71b),(73a),(73b) (62)  
 ( ) (72a),(72b),(74a),(74b) (62) ( ) 2 4 (72),(74)  
 (71a),(71b) (73a),(73b) (81) 가 1 4 가  
 ,(74b) 가 (72a),(72b) (74a)  
 11 11 (81) 1 U  
 , (50) 1 1 10 가  
 , 가 10 가  
 , (81) (81a) (50) (50c)  
 1~10 , 가  
 가 , 12 (81) (80) 2  
 (80) 가 (62) 2 6 (65)  
 , 가 가 (40) (39)  
 (41) , (41) (41)  
 , (40) (41) 가 ,  
 , 가 , (41) 3 5



가 , 가  
가 , 가  
가 , 가

(57)

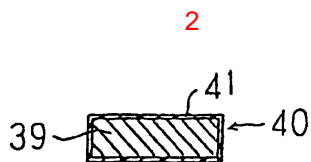
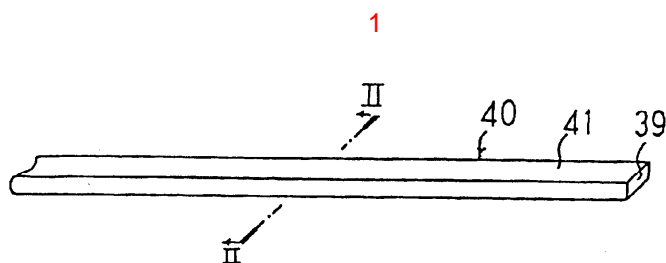
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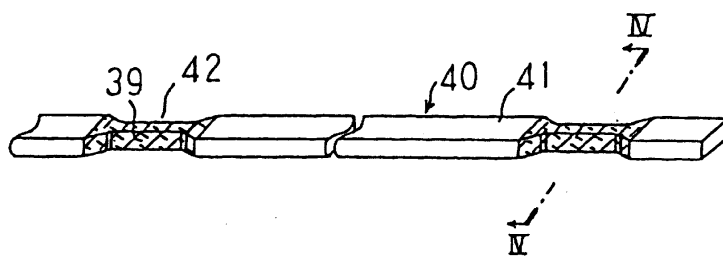
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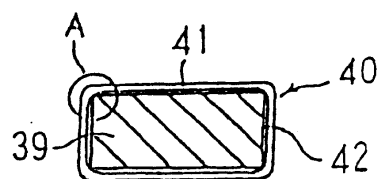
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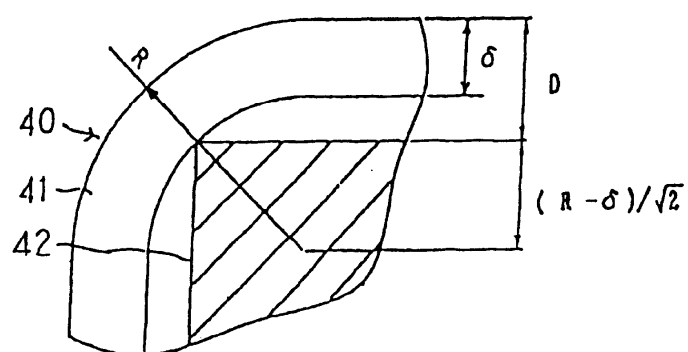
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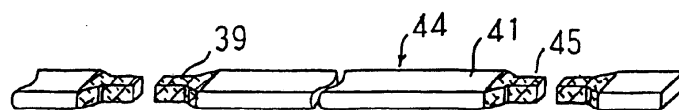
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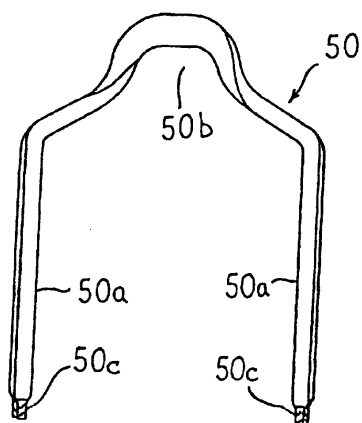
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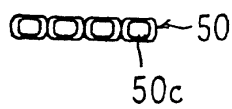
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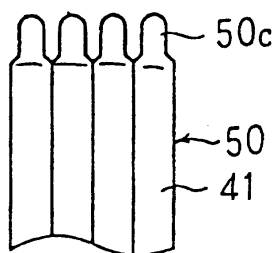
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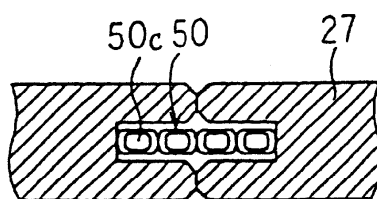
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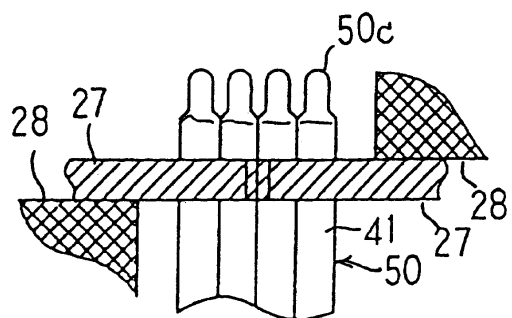
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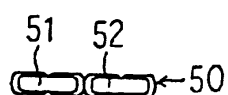
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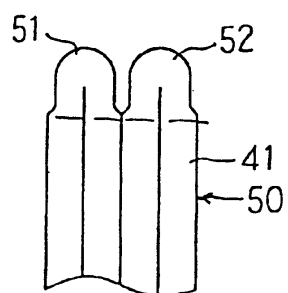
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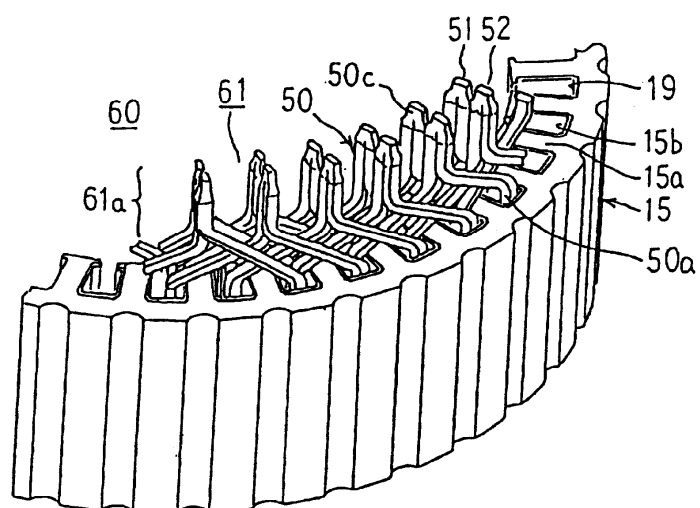
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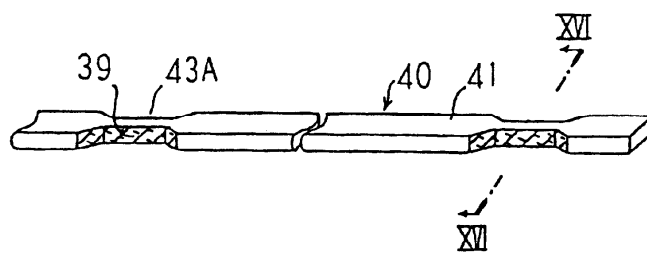
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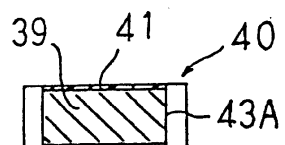
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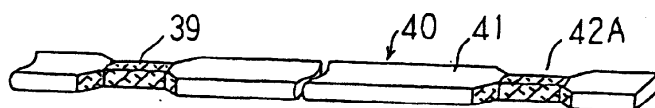
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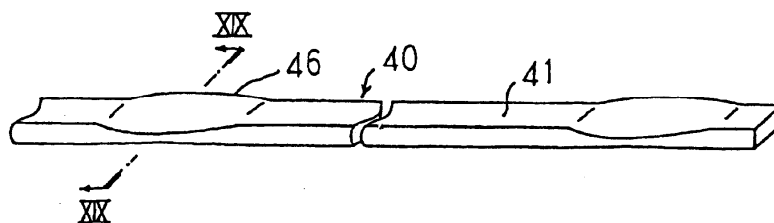
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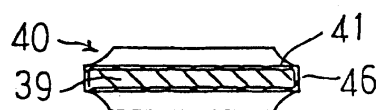
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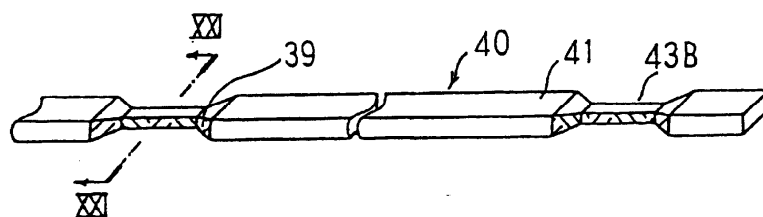
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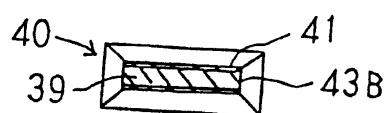


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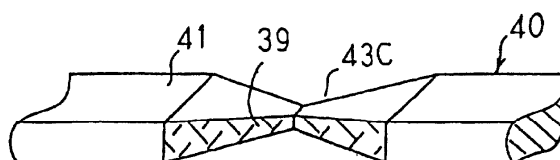




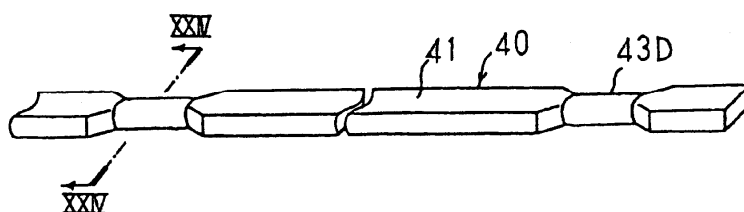
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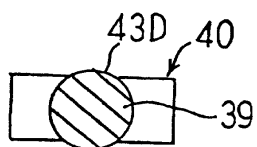
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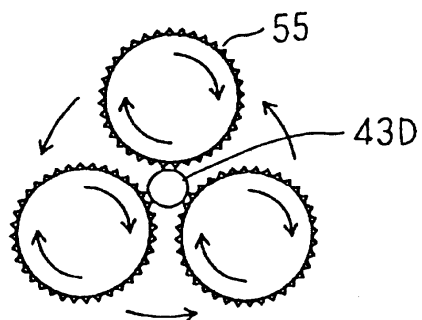
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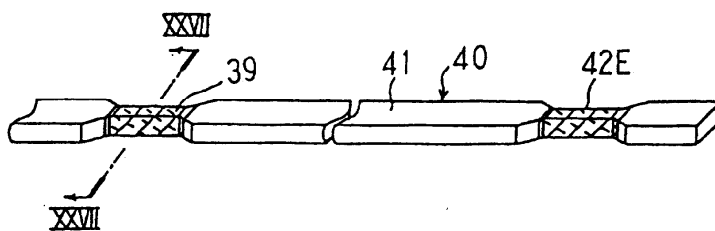
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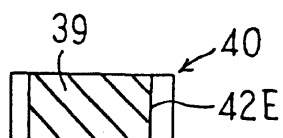
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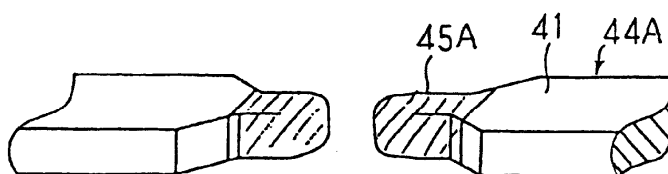
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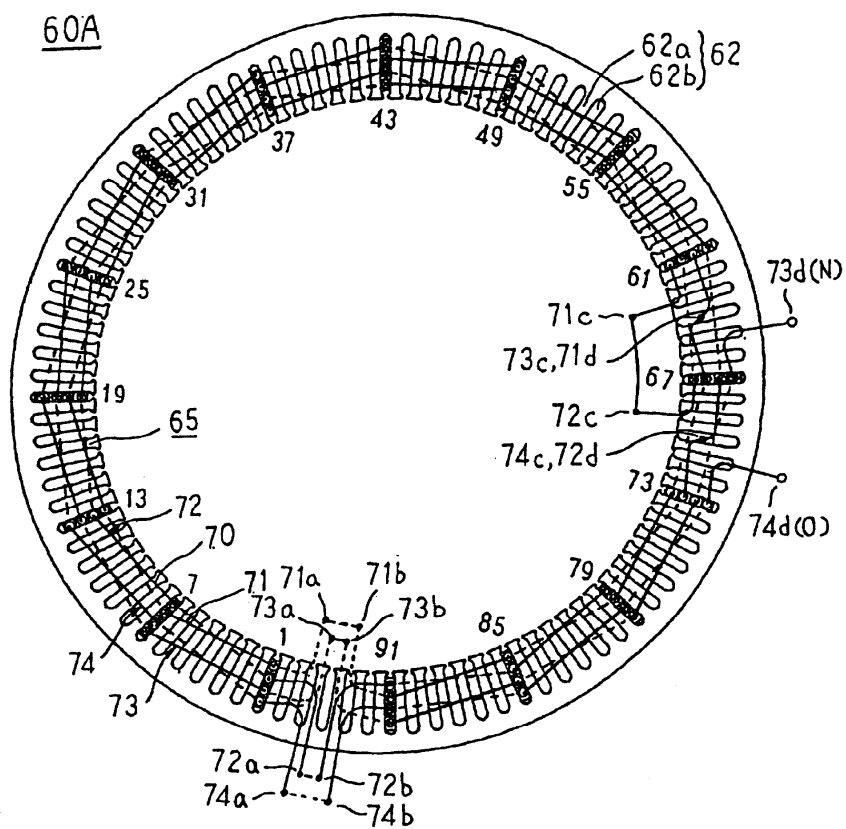
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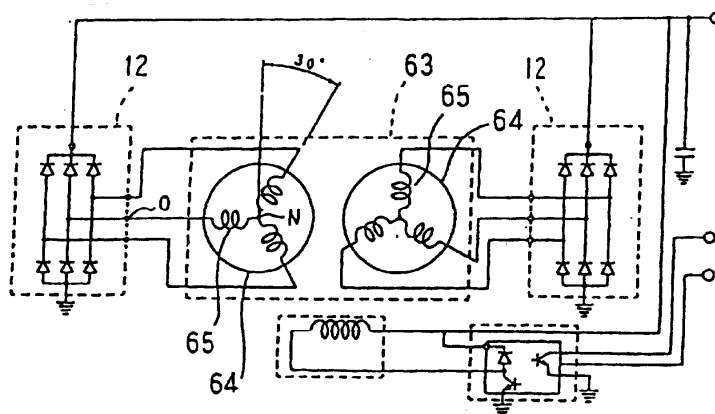
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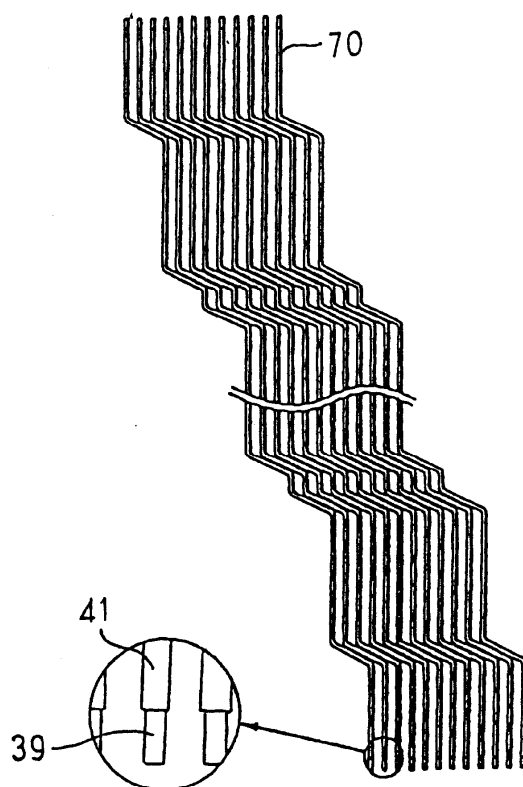
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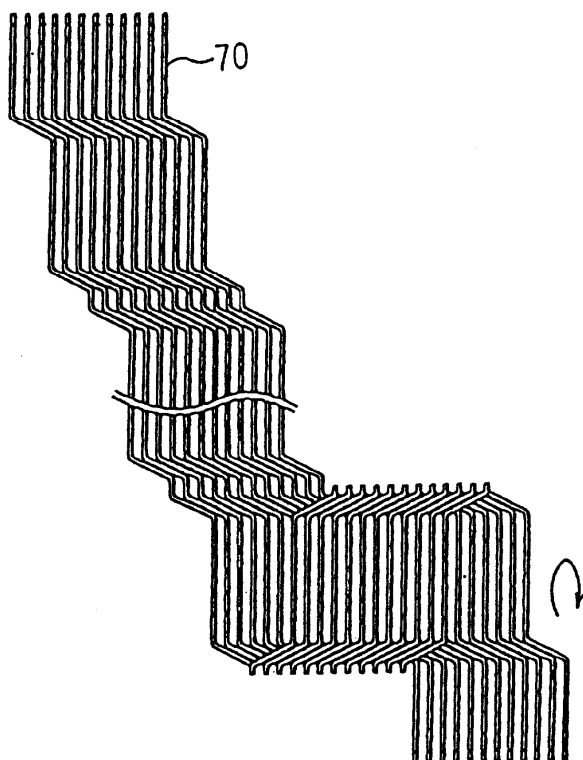
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31



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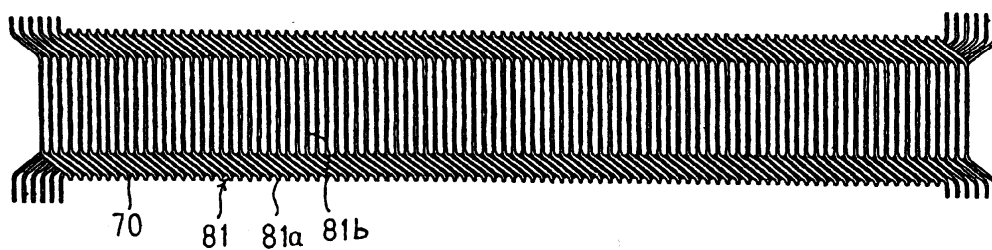


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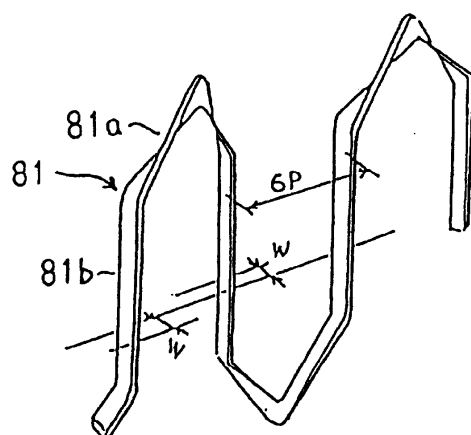


33b

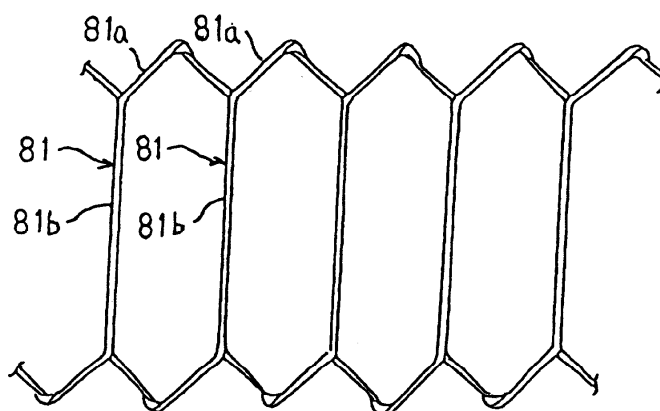
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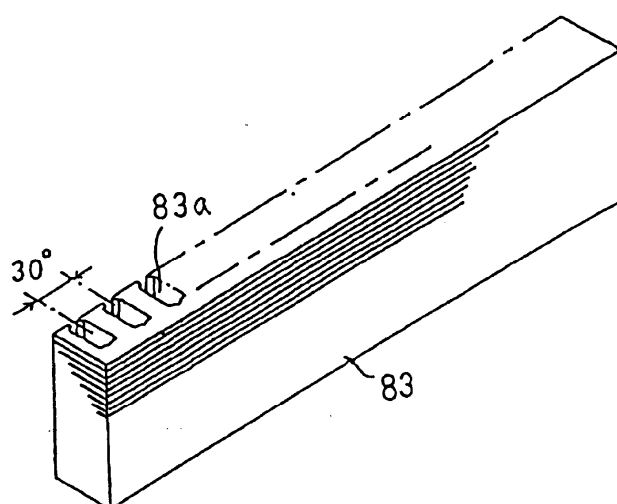
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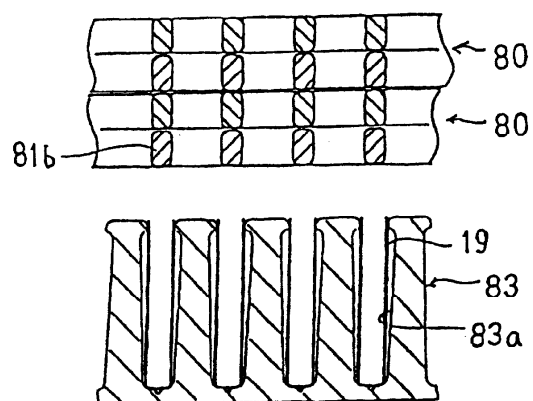
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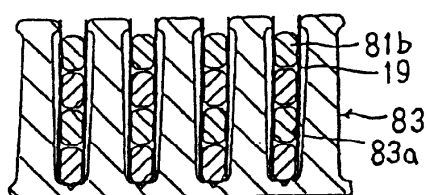
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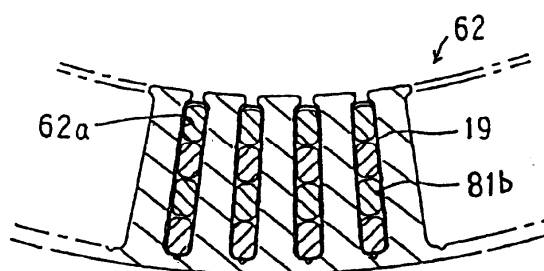
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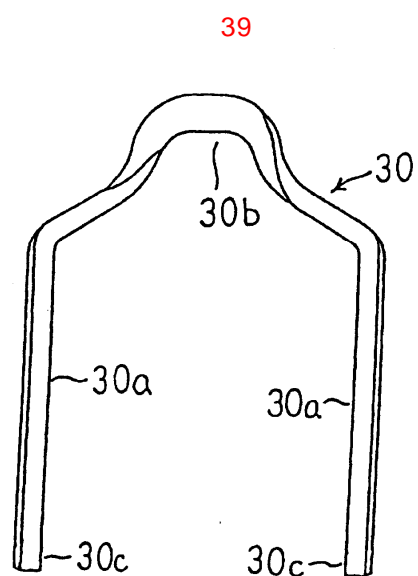
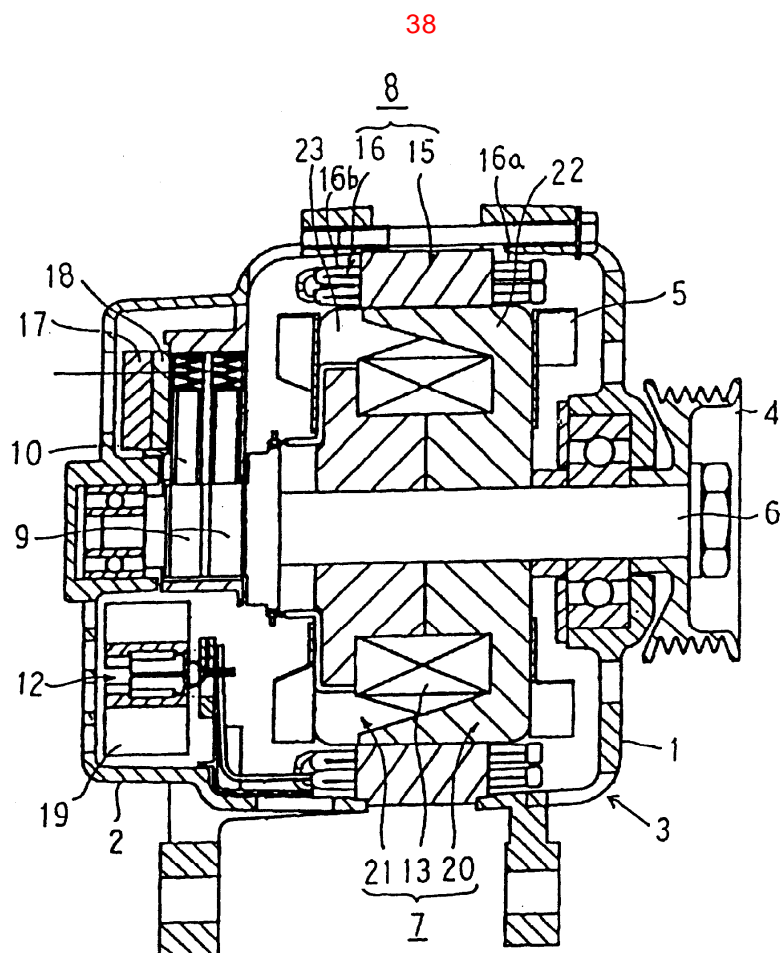


37b

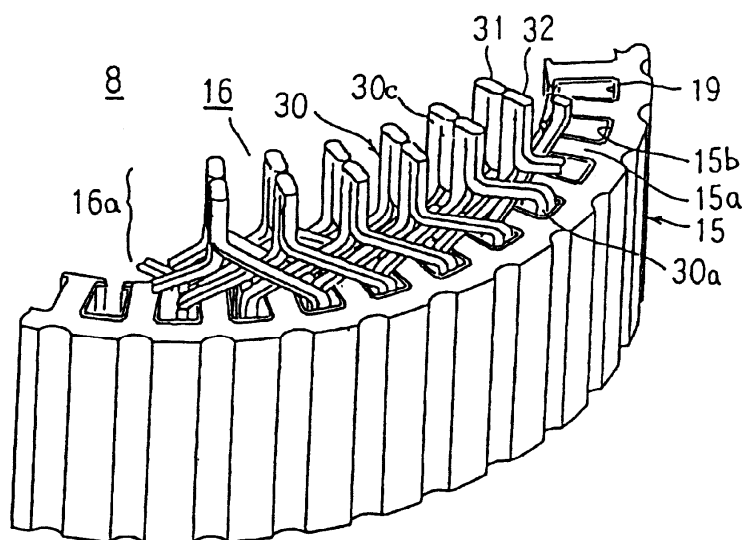


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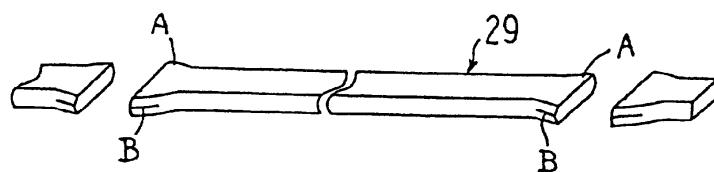




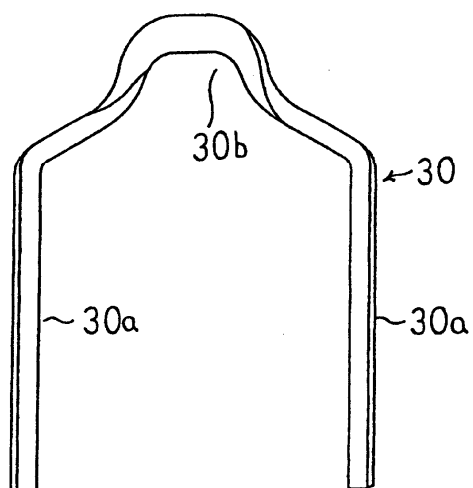
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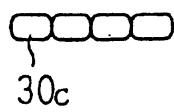
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42

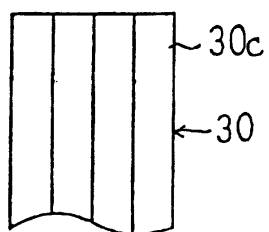


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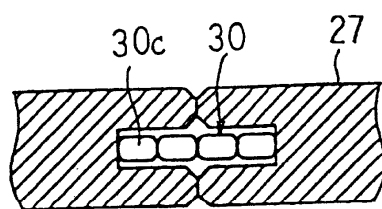




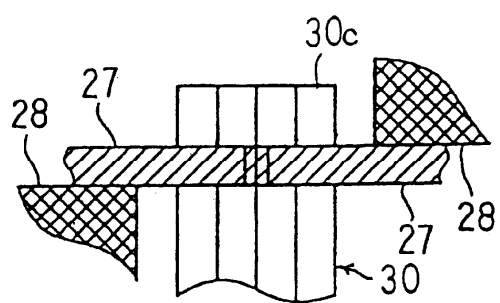
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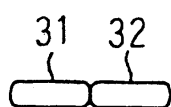
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