FIG. 1

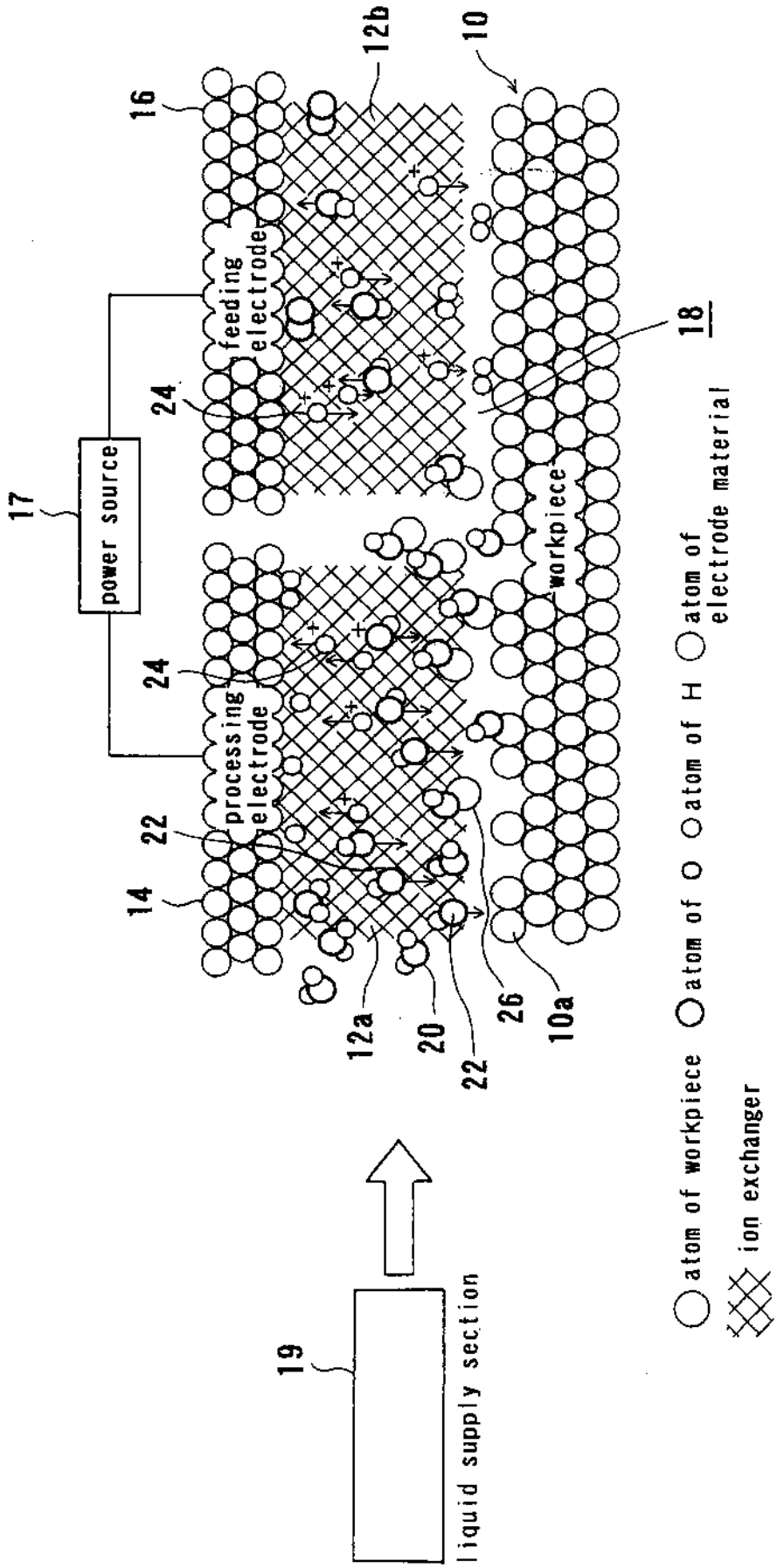

16
12b
10
feeding electrode
24
18
17
power source
workpiece
24
processing electrode
22
14
12a
20
22
26
10a
19
liquid supply section
atom of workpiece
atom of O
atom of H
atom of electrode material
ion exchanger

FIG. 2

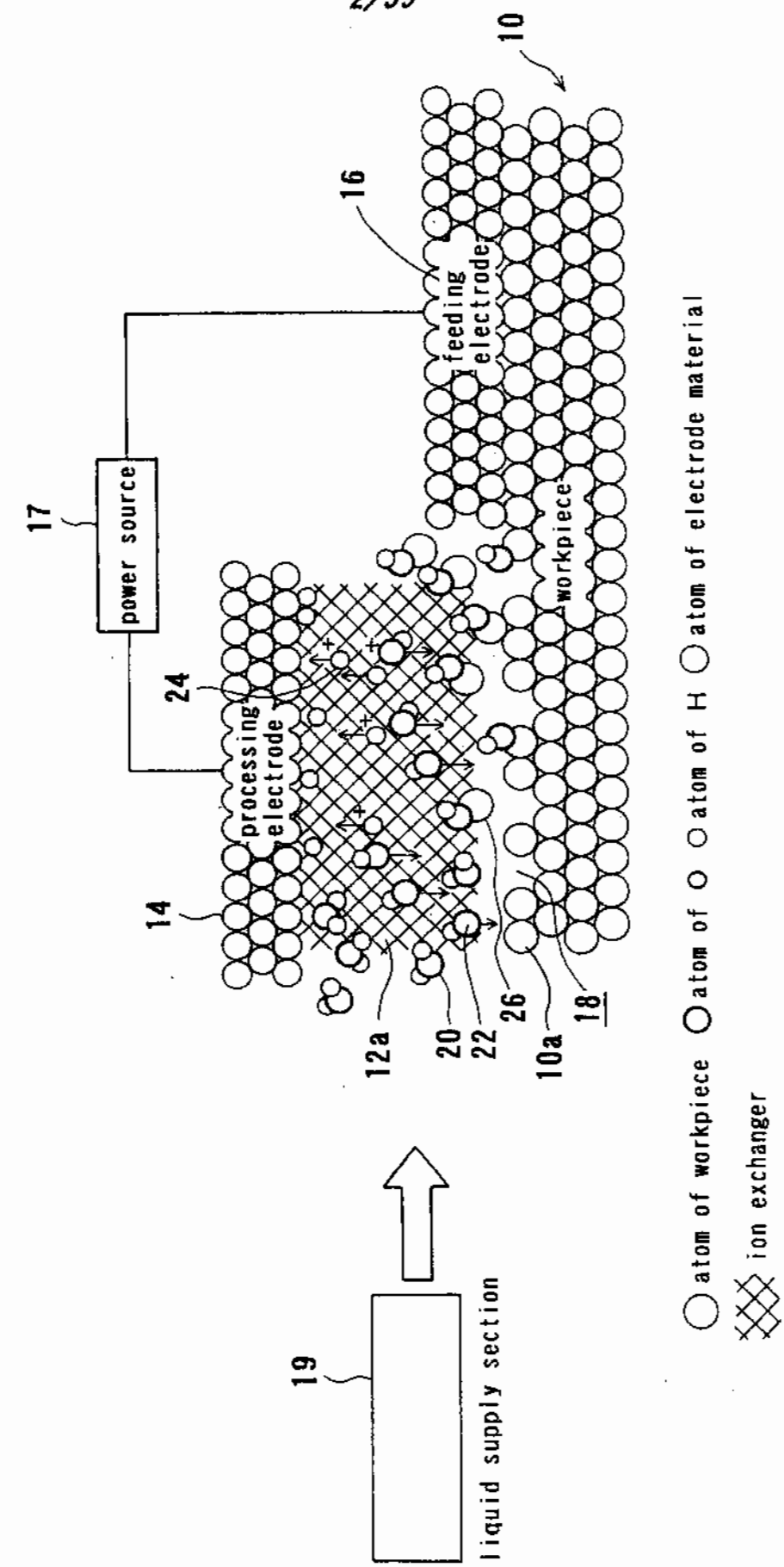

10
16
feeding electrode
17
power source
24
processing electrode
14
workpiece
12a
20
22
26
10a
18
19
liquid supply section
atom of workpiece
atom of O
atom of H
atom of electrode material
ion exchanger

FIG. 3

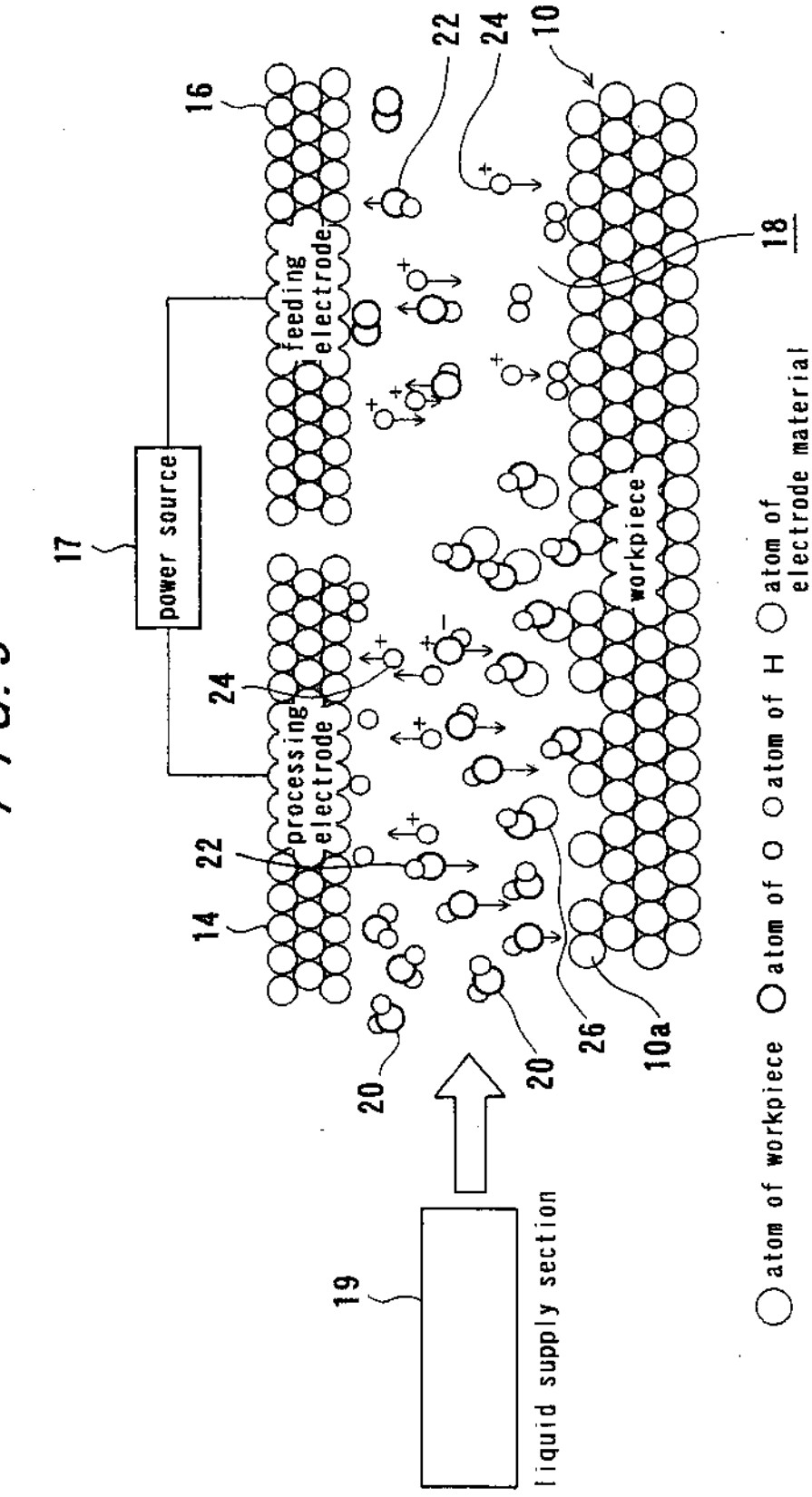

16
22
24
10
18
feeding electrode
17
power source
24
processing electrode
workpiece
22
14
20
20
26
10a
19
liquid supply section
atom of workpiece
atom of O
atom of H
atom of electrode material

FIG. 4A

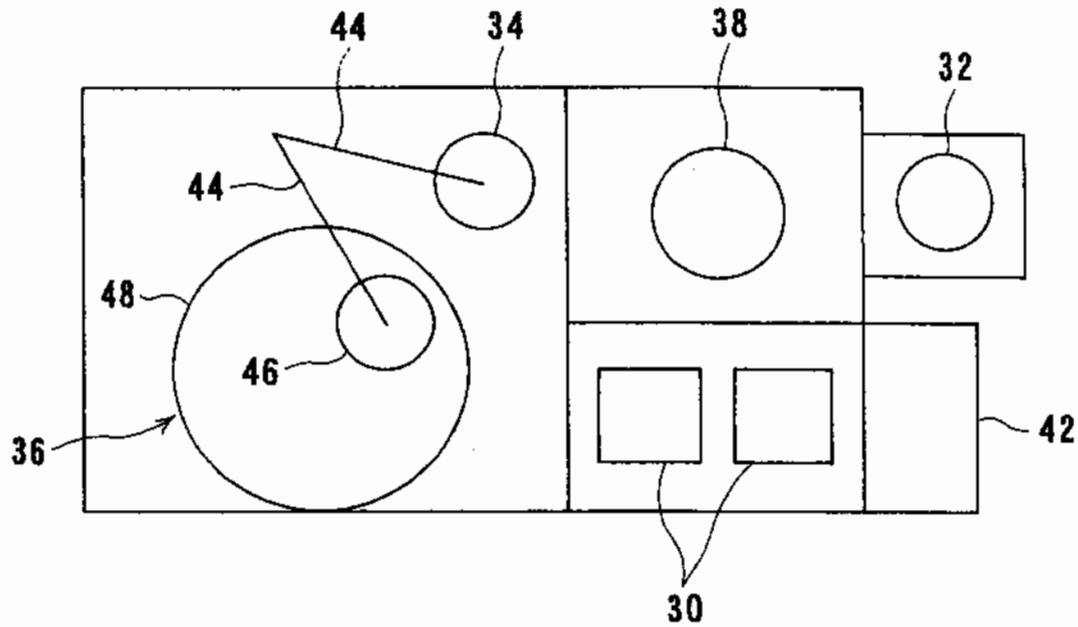


FIG. 4B

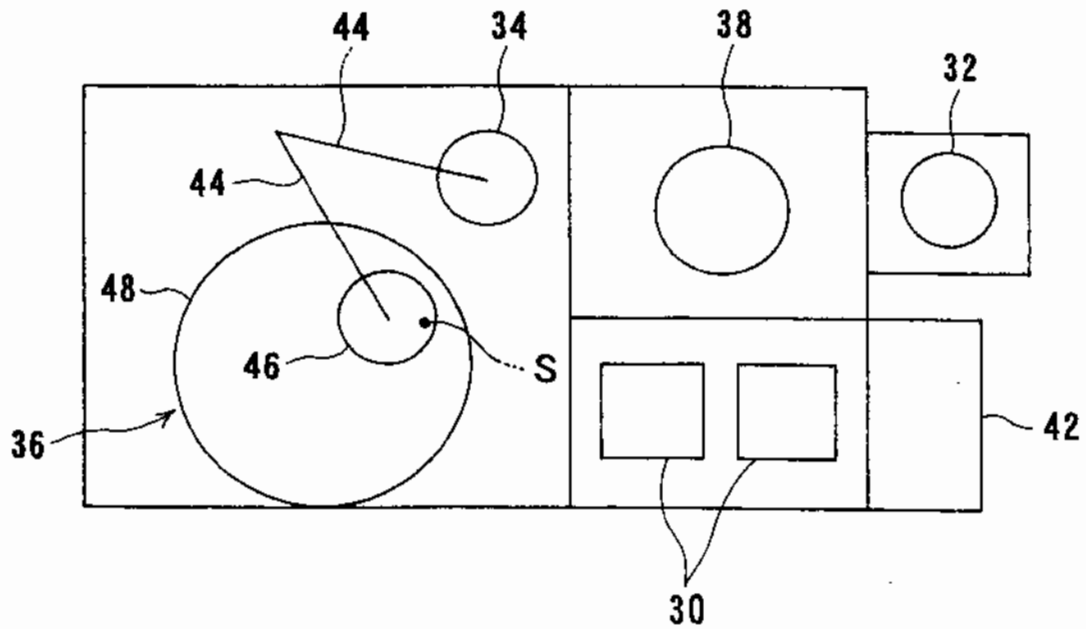


FIG. 5

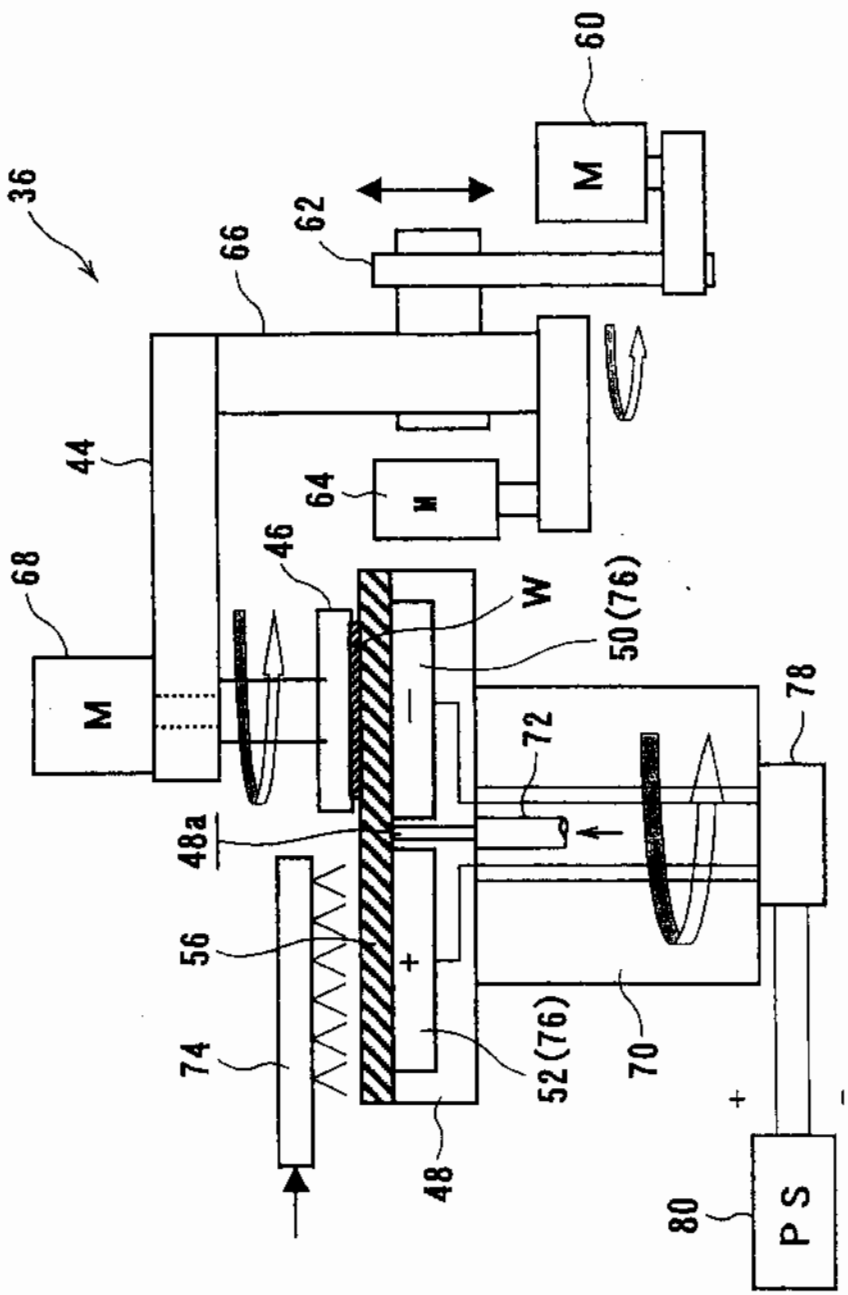


FIG. 6

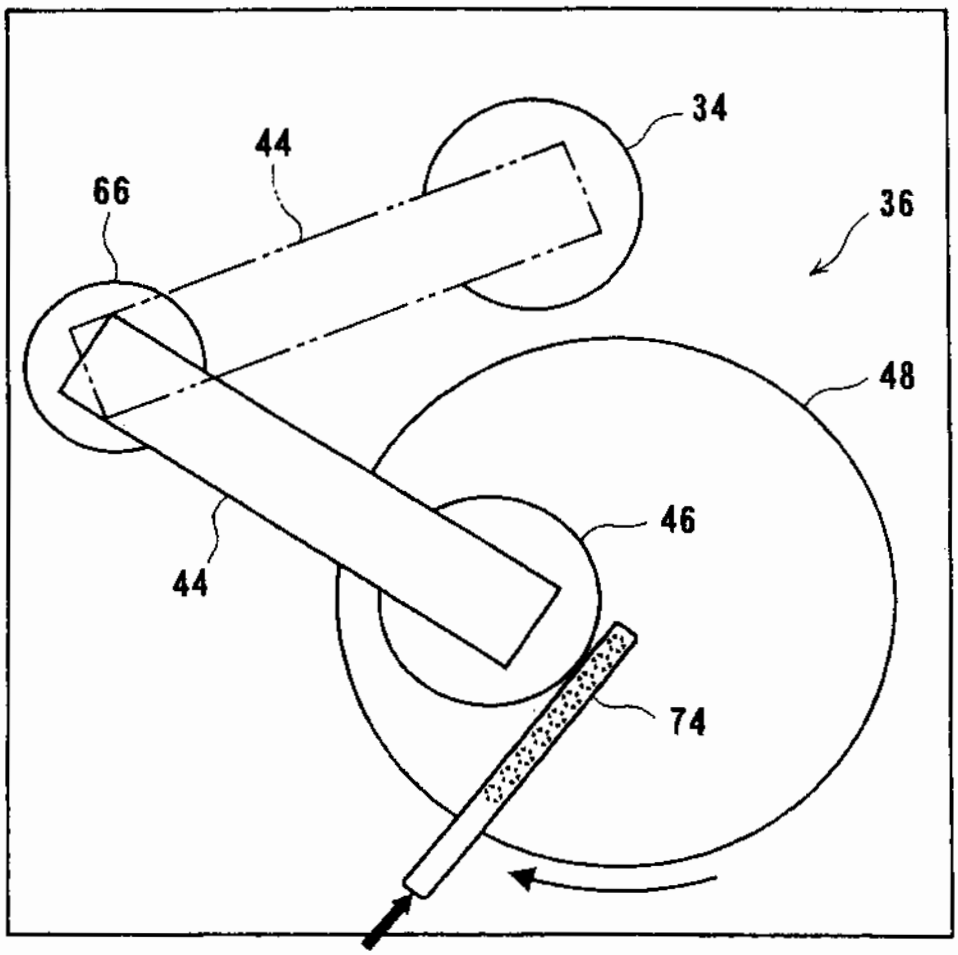


FIG. 7

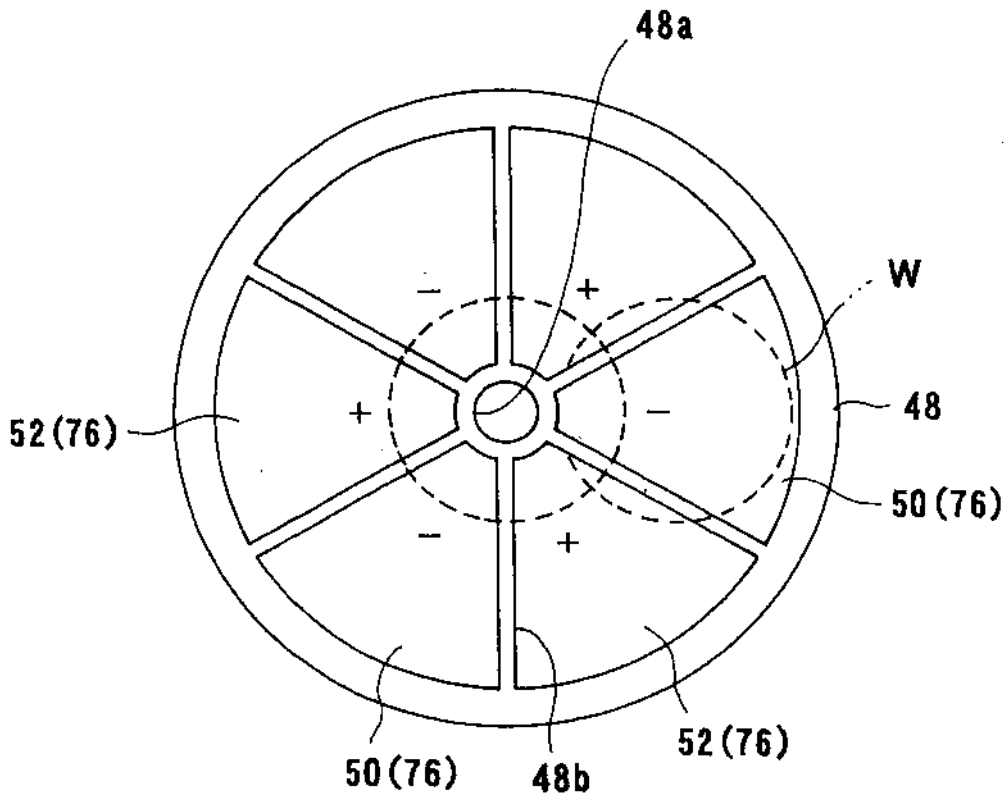


FIG. 8

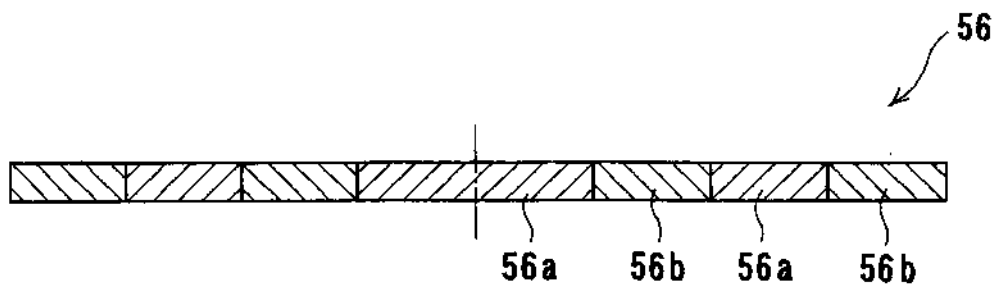


FIG. 9A

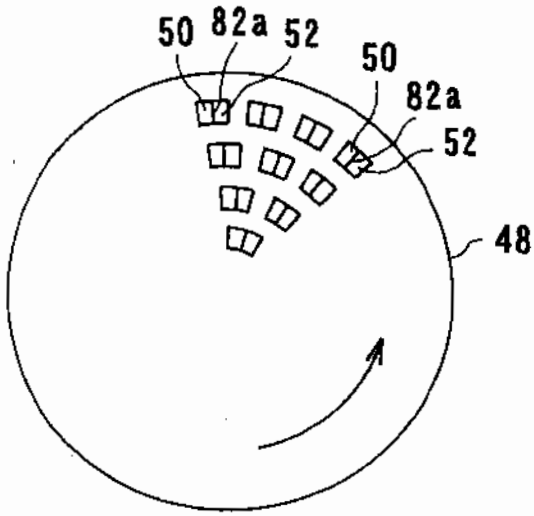


FIG. 9B

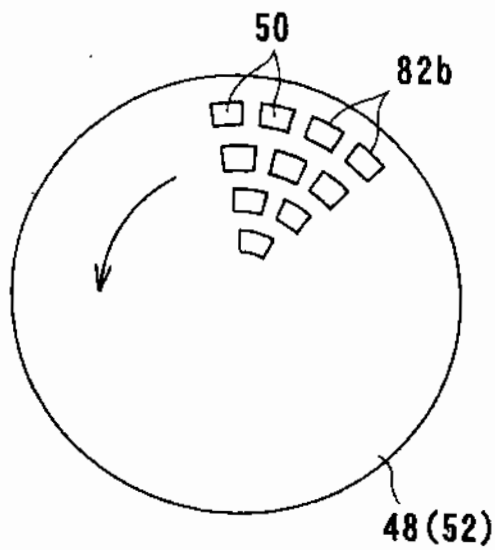


FIG. 10A

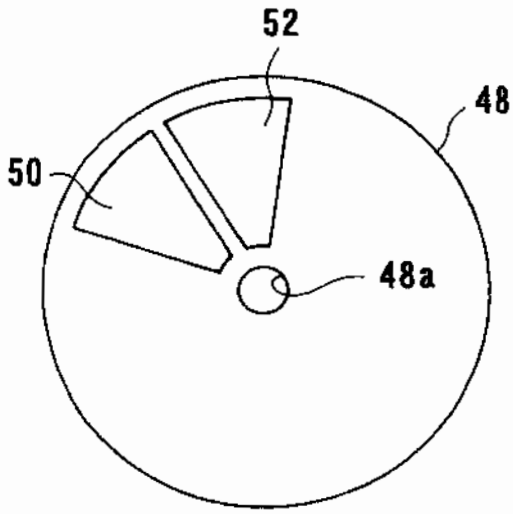


FIG. 10B

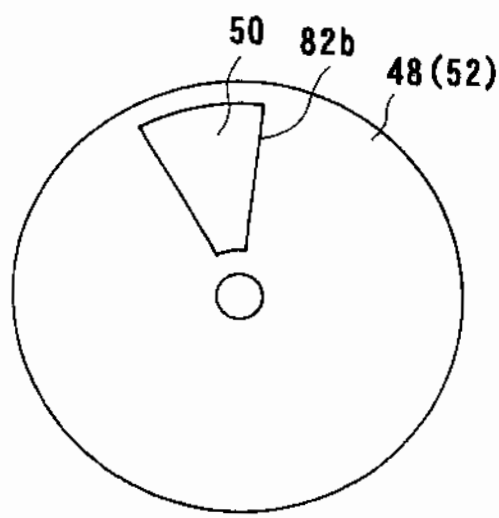


FIG. 11A

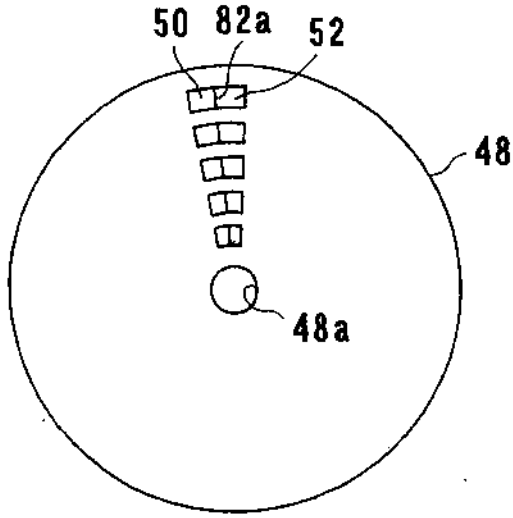


FIG. 11B

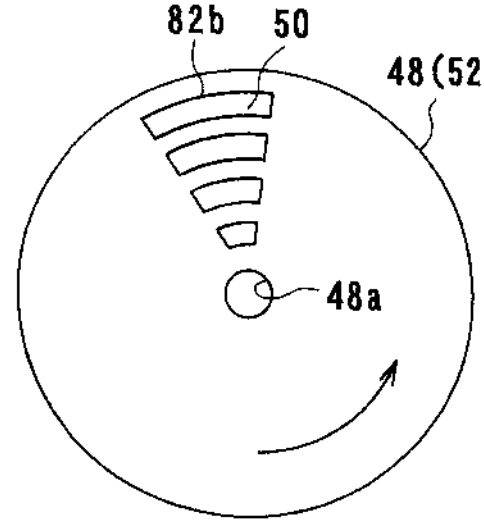


FIG. 12

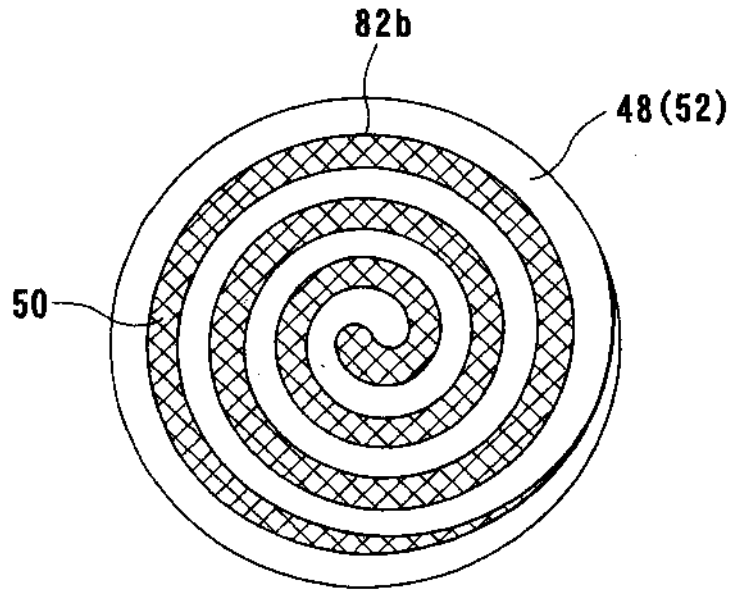


FIG. 13

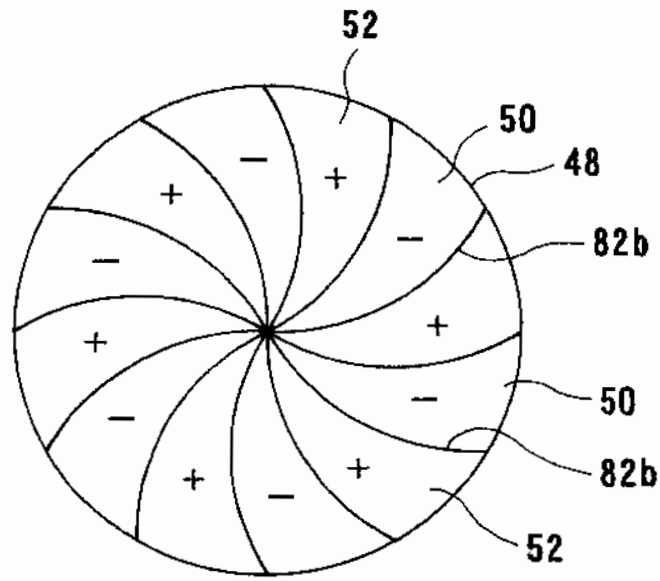


FIG. 14A

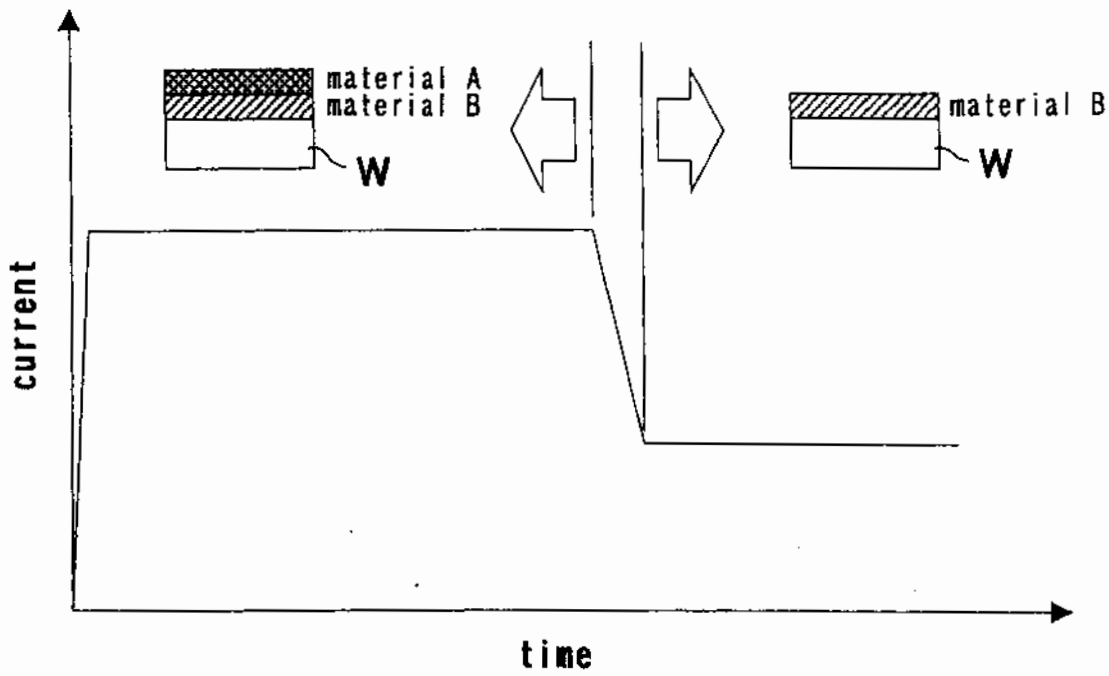


FIG. 14B

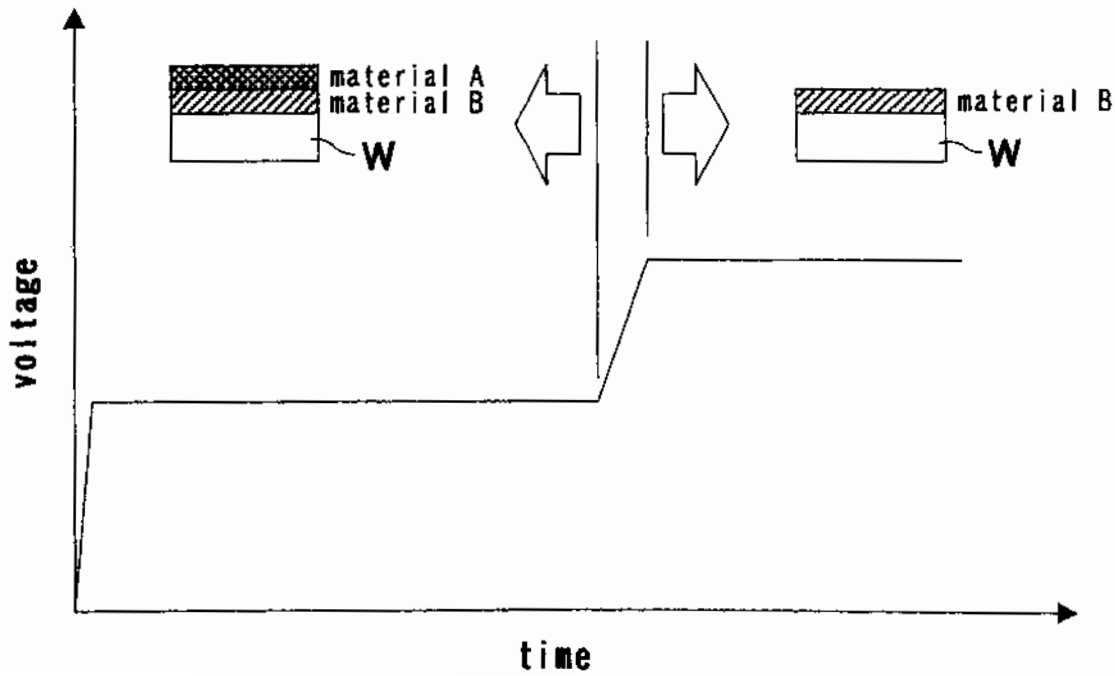


FIG. 15

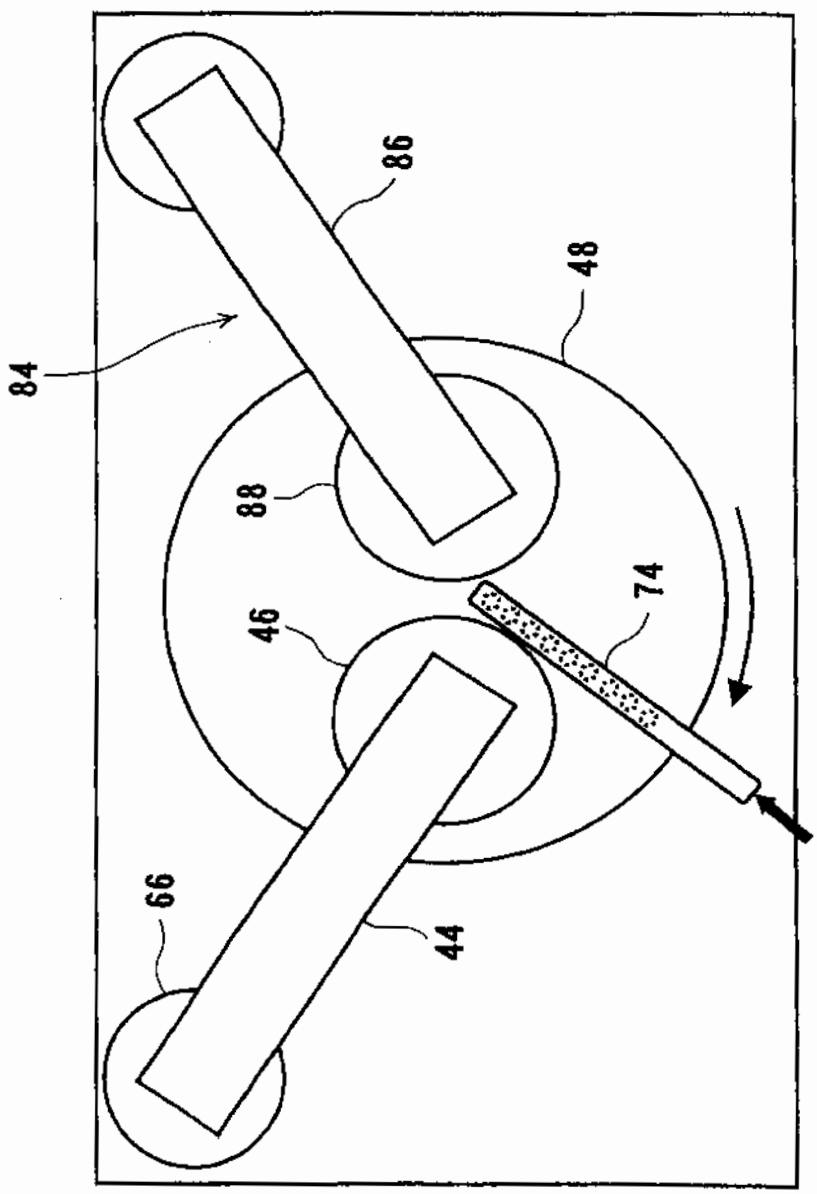


FIG. 16

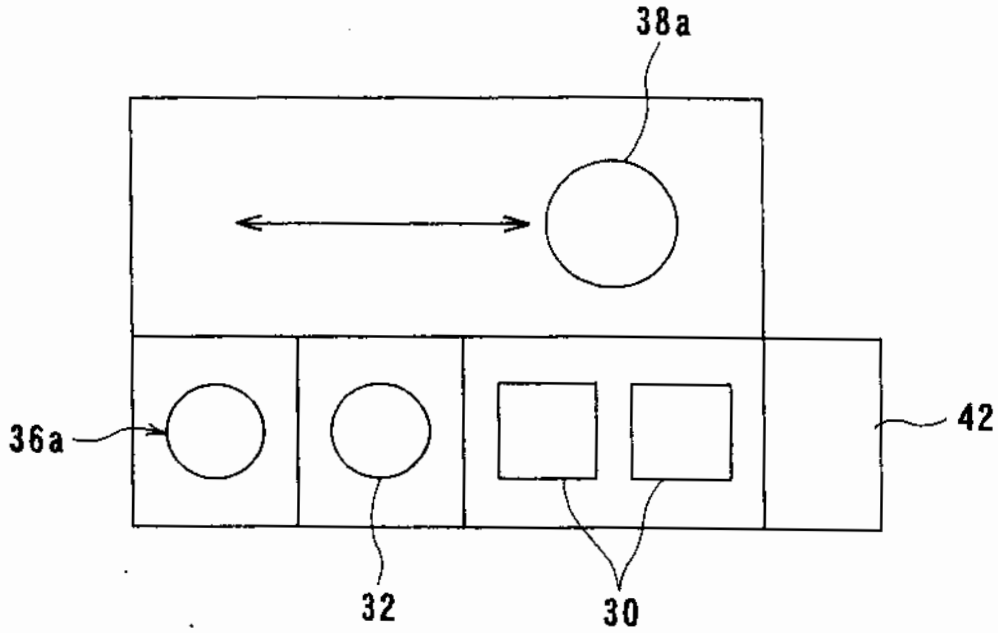

38a
36a
42
32
30

FIG. 17

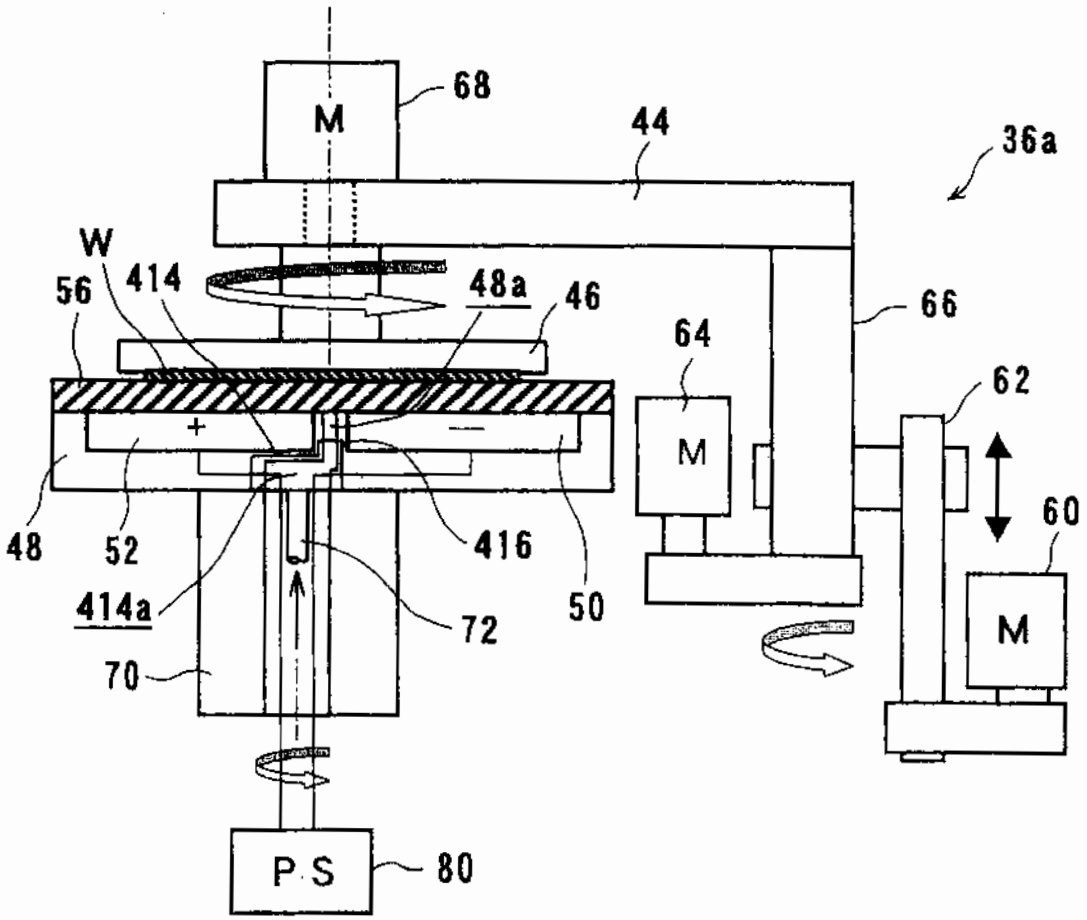

M
68
44
36a
W
414
48a
46
56
66
64
62
M
48
52
416
50
60
414a
72
M
70
P.S
80

FIG. 18

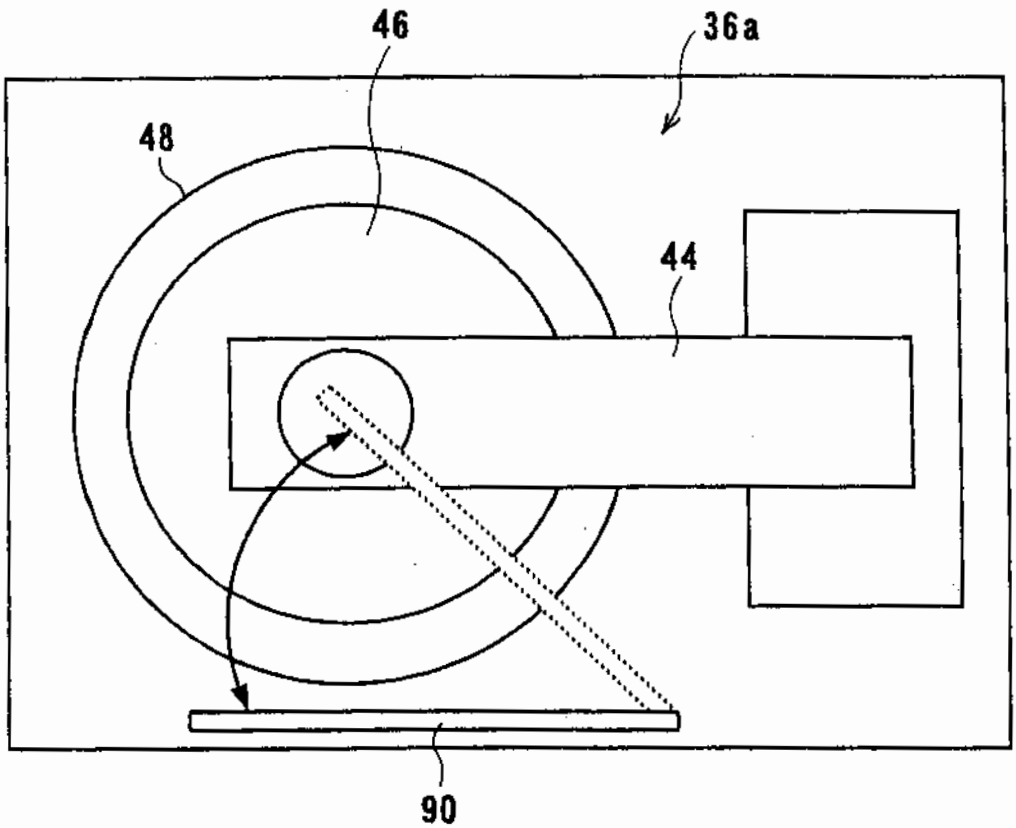


FIG. 19A

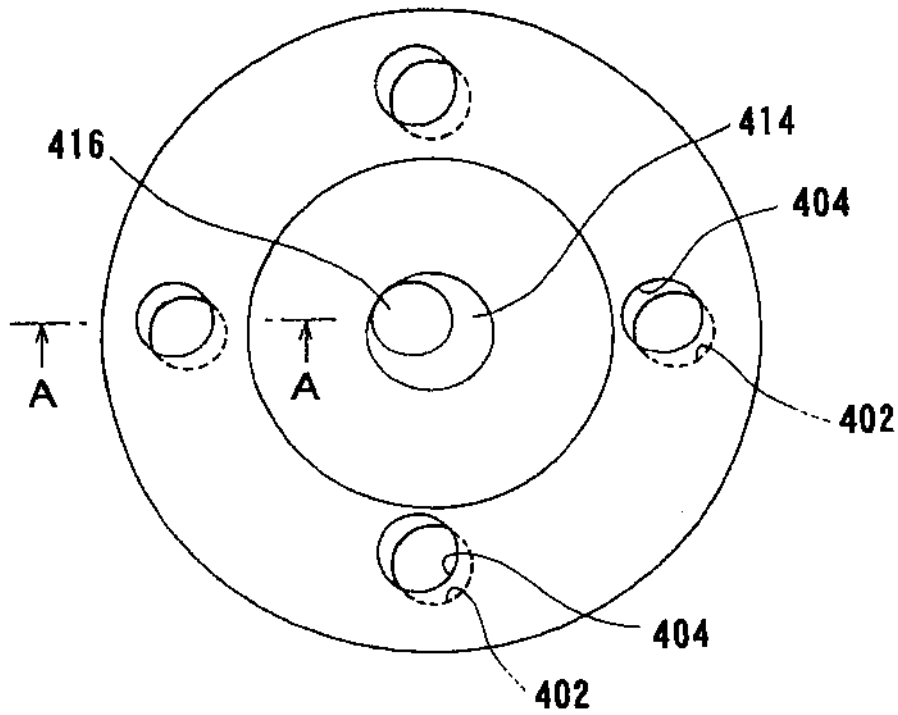


FIG. 19B

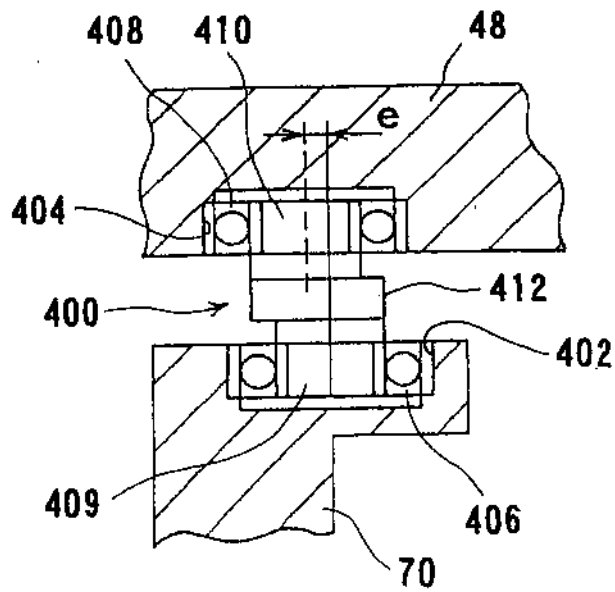


FIG. 20

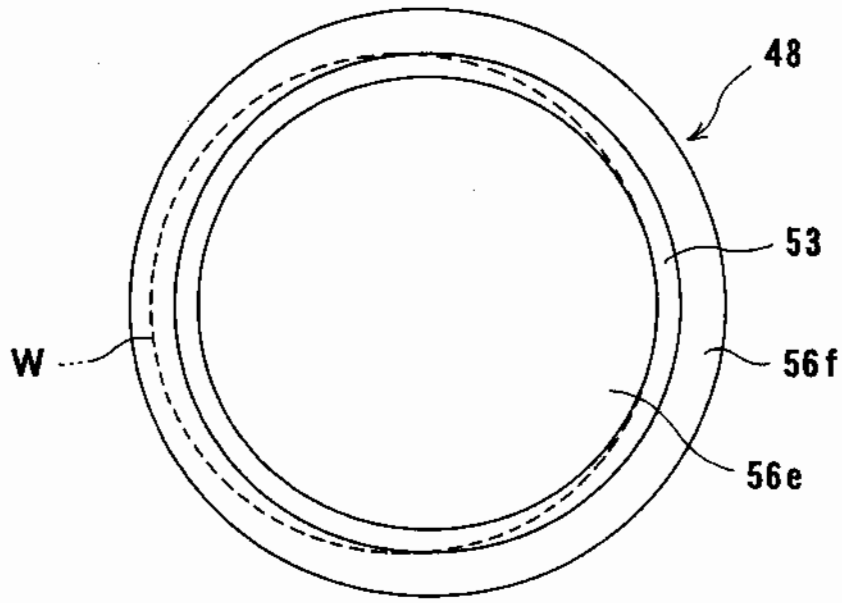


FIG. 21

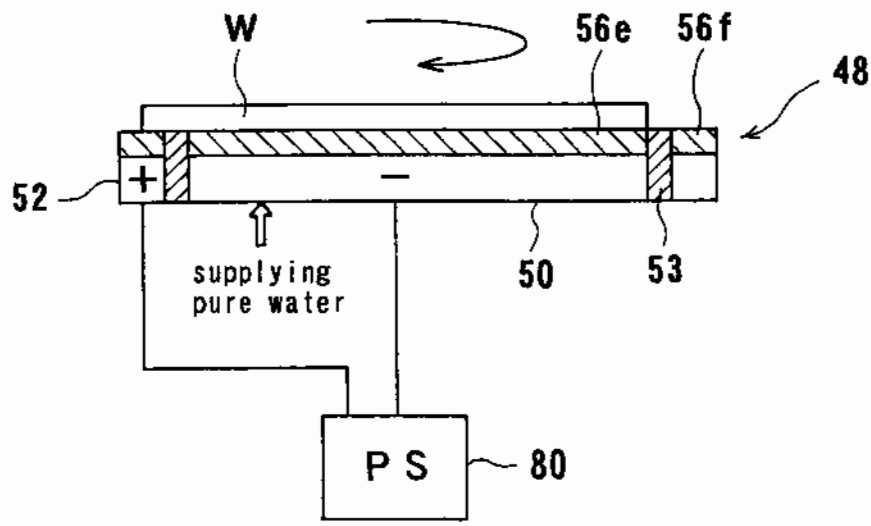


FIG. 22

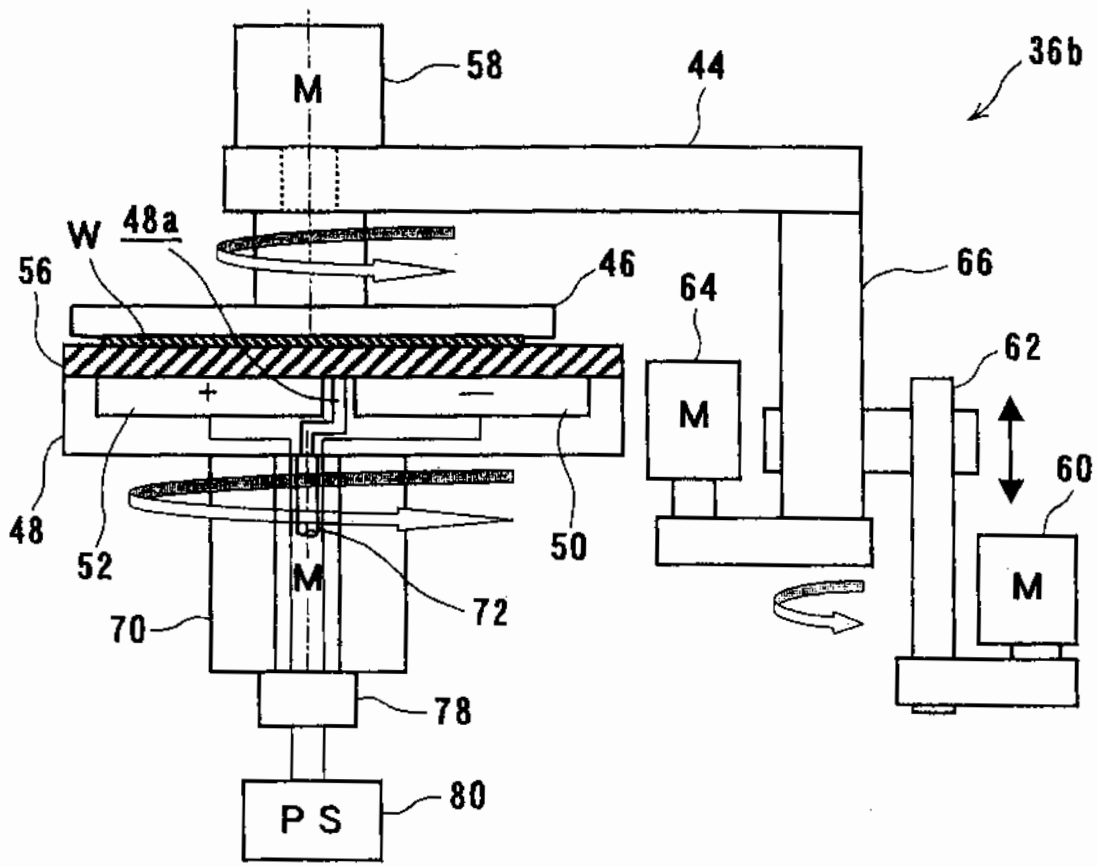


FIG. 23

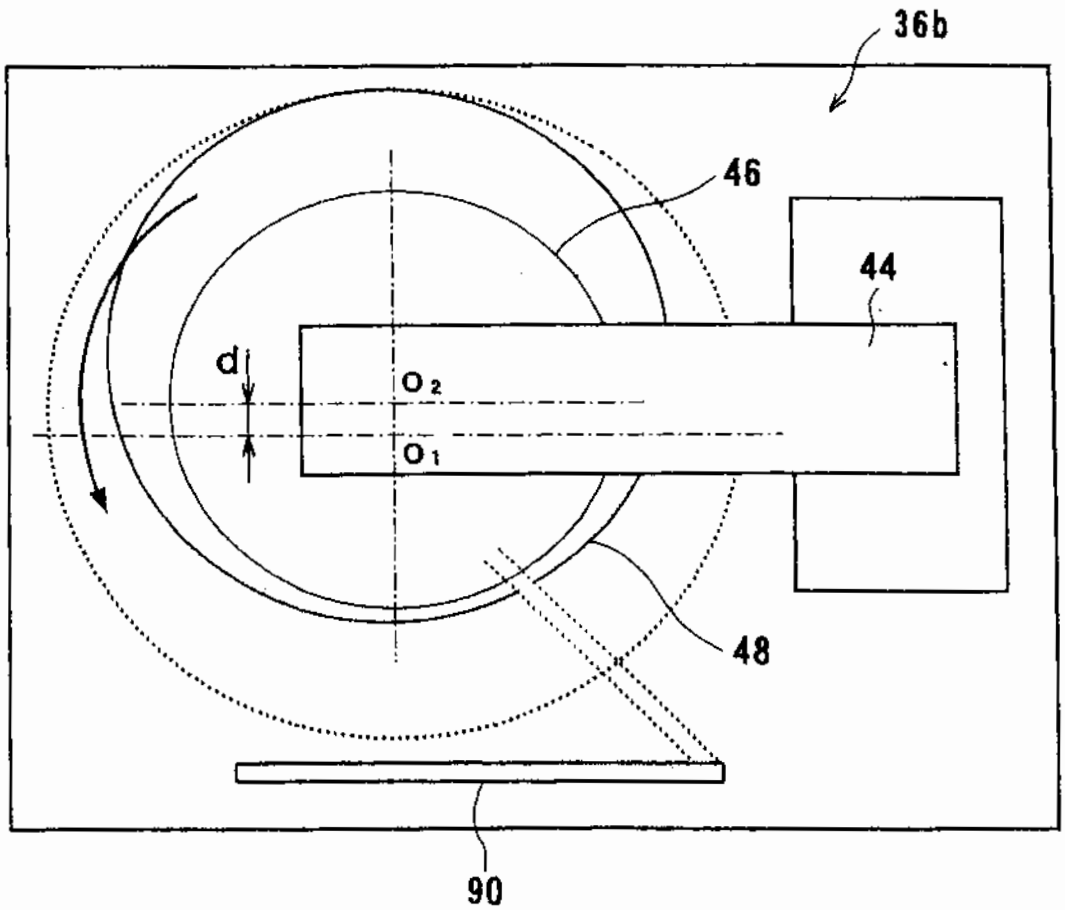


FIG. 24

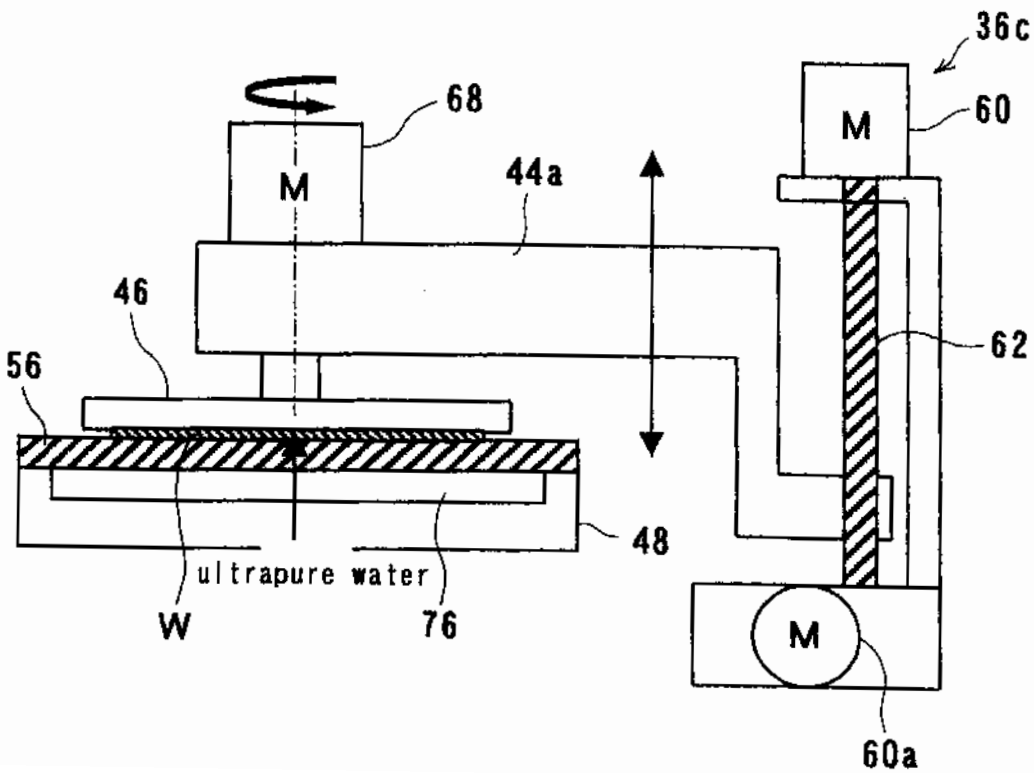


FIG. 25

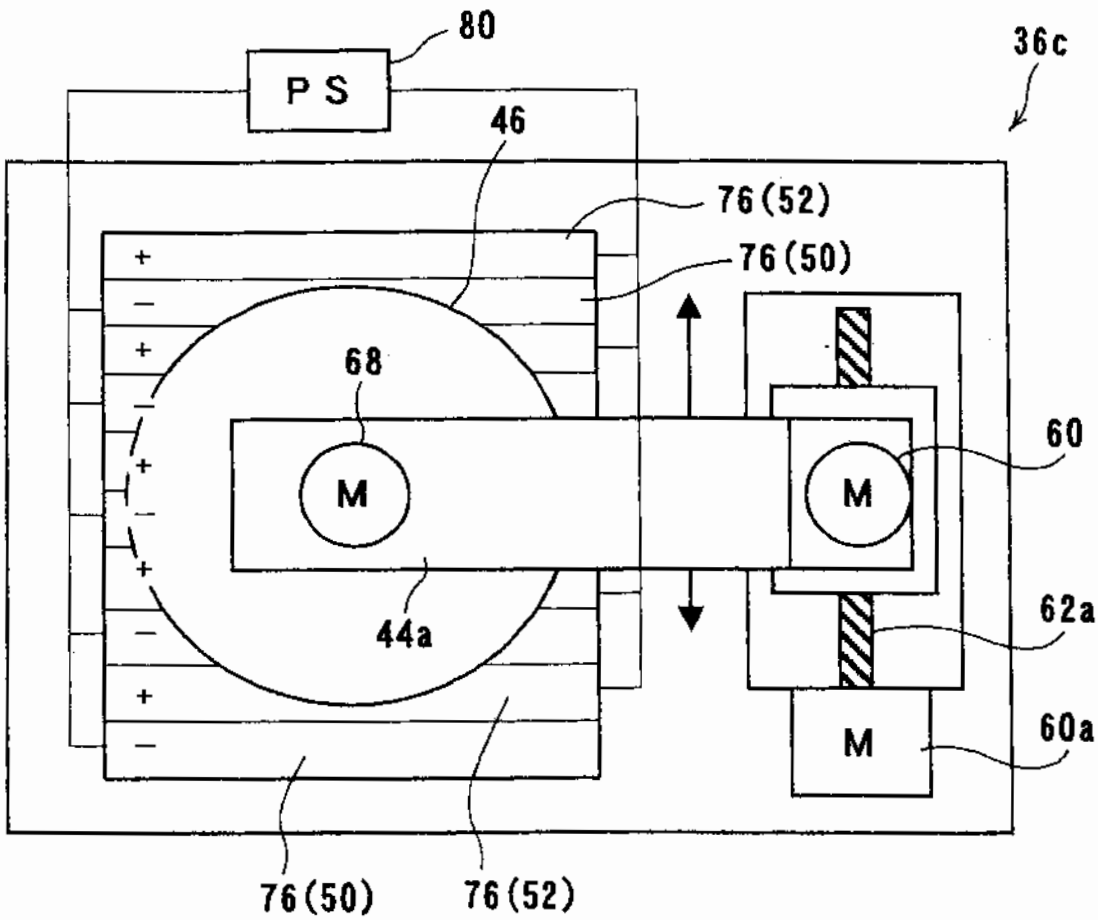


FIG. 26

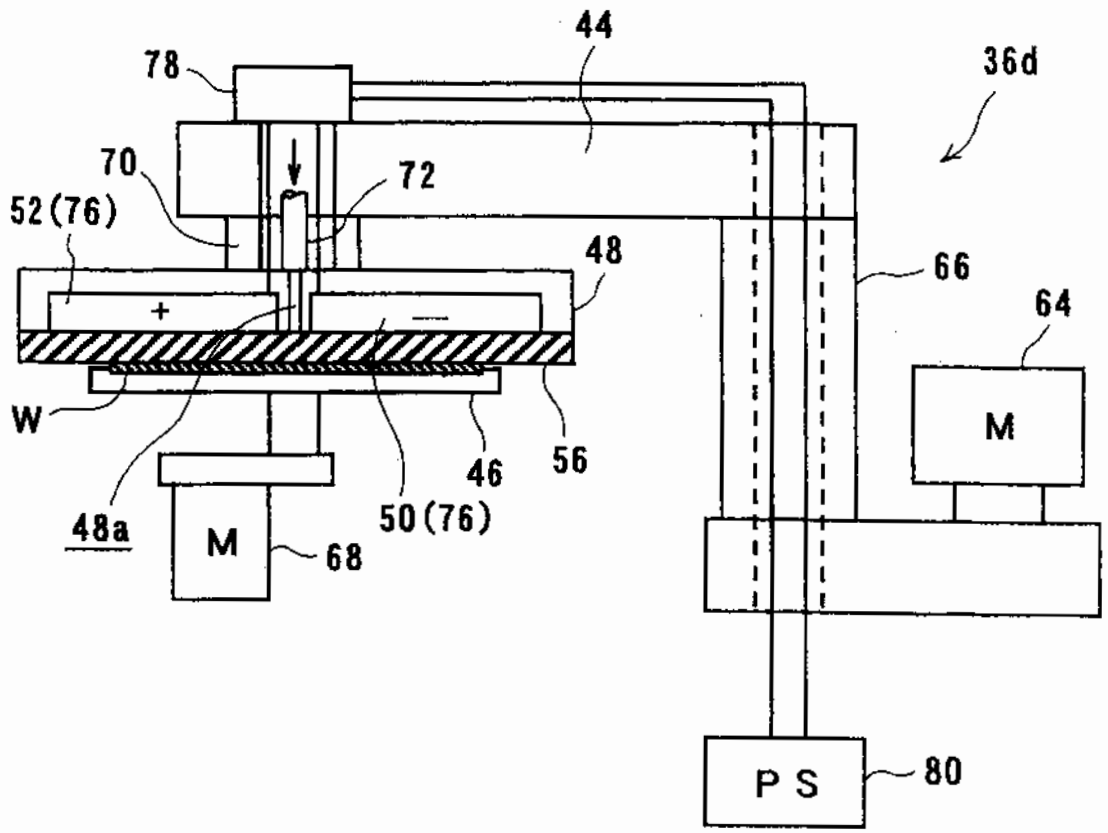


FIG. 27

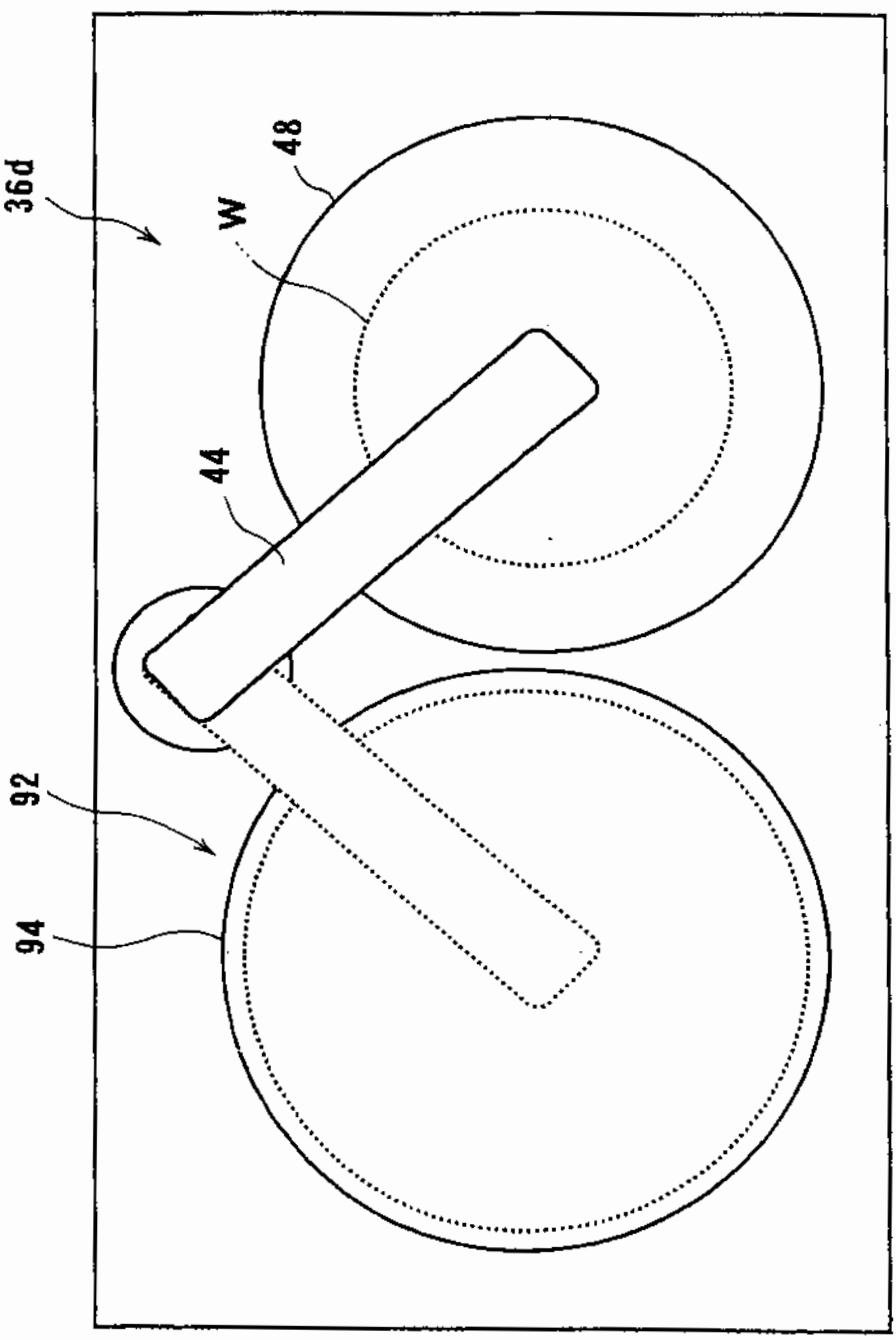


FIG. 28

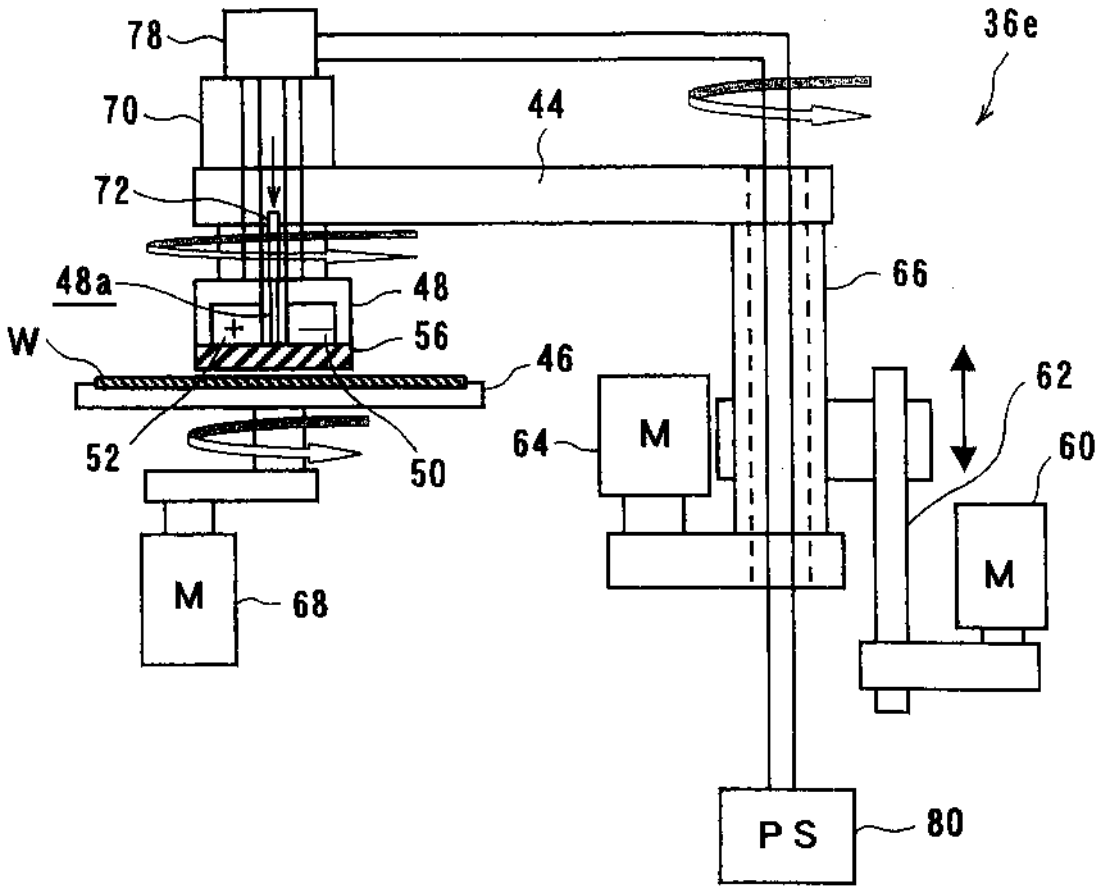

78
70
72
48a
48
56
W
46
52
50
M
68
44
36e
66
62
64
M
60
M
PS
80

FIG. 29

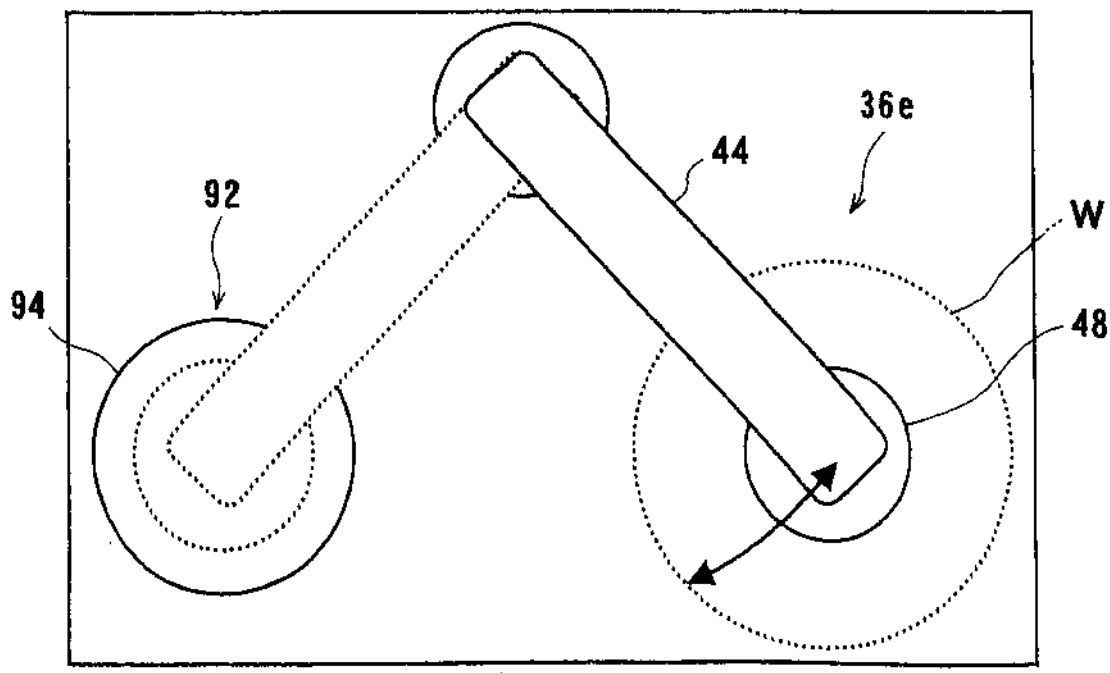

36e
44
92
94
W
48

FIG. 30

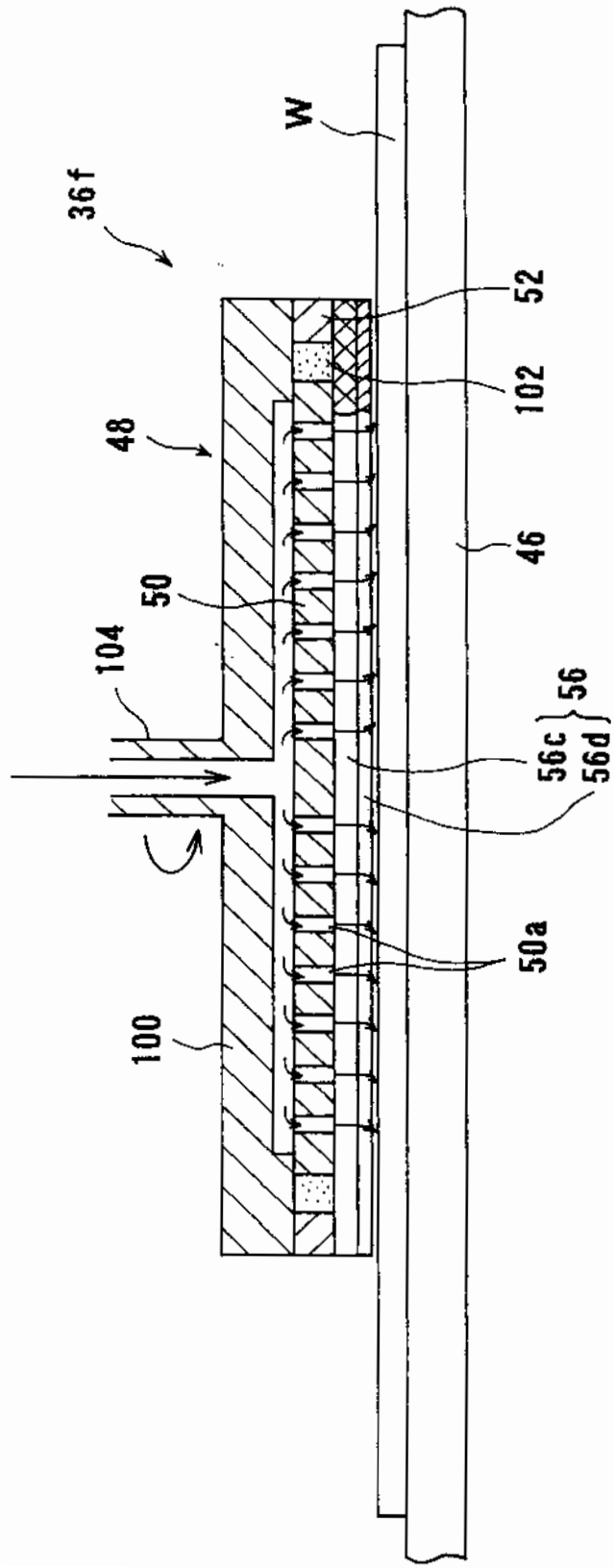


FIG. 31

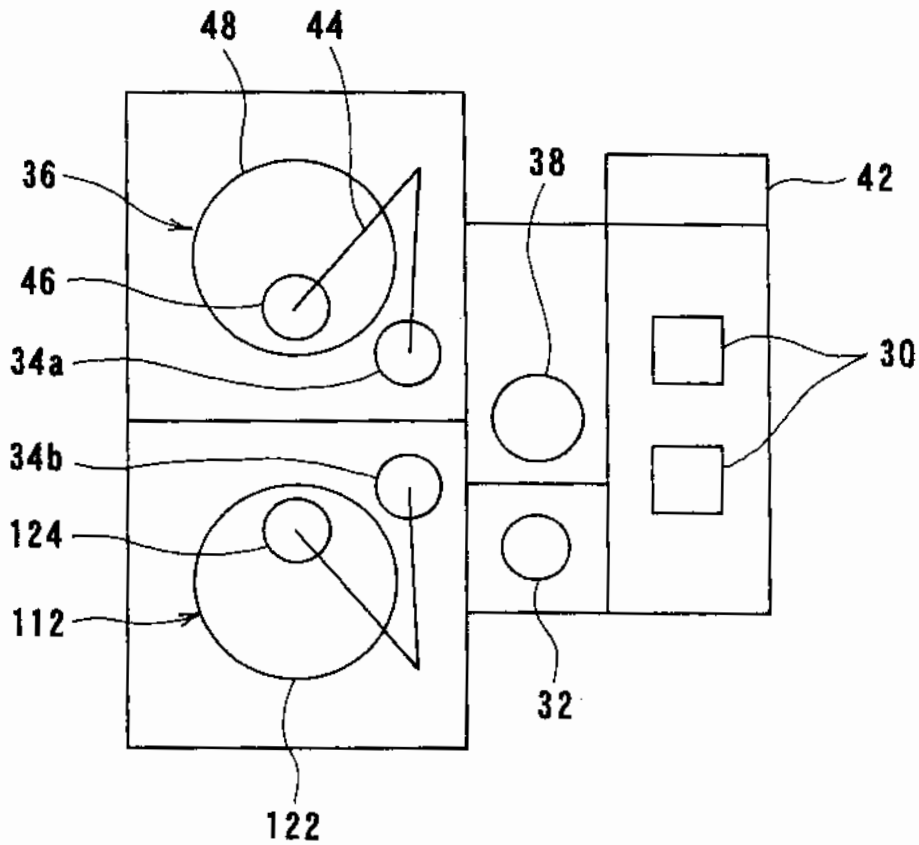


FIG. 32

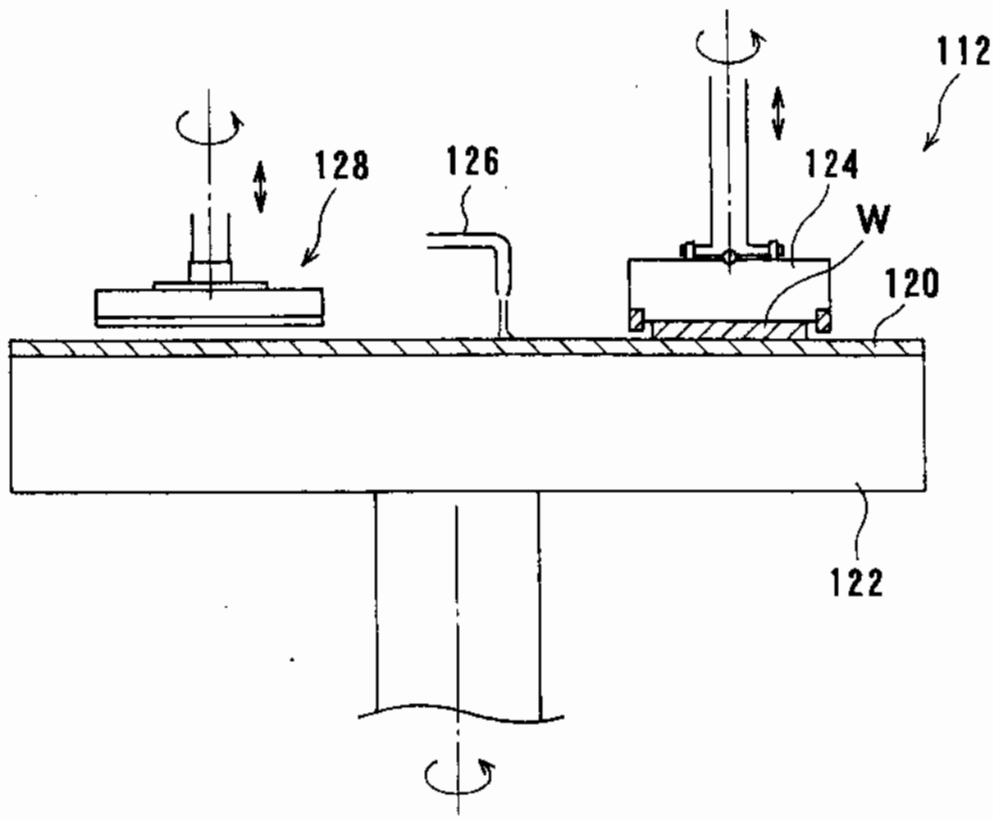


FIG. 33

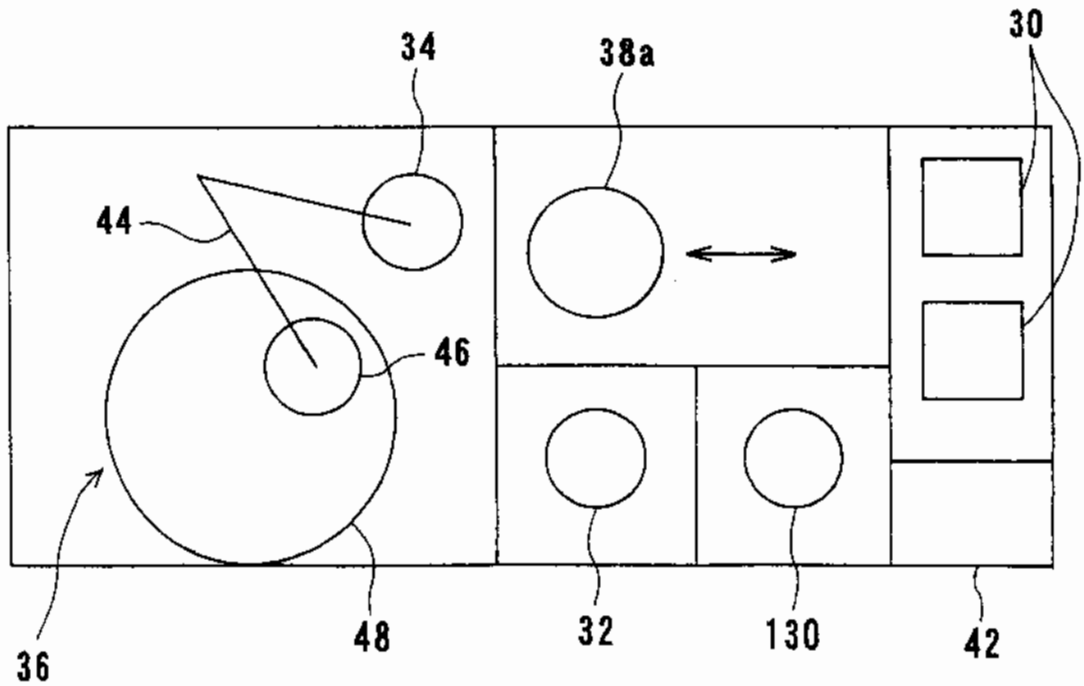


FIG. 34

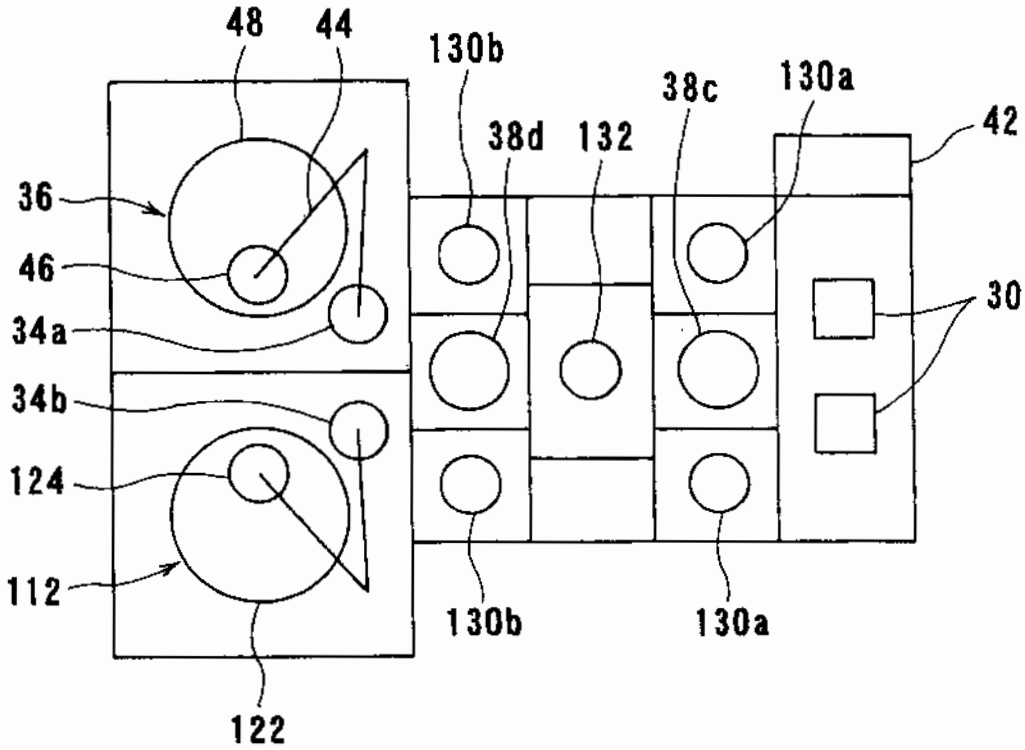

48
44
130b
38c
130a
38d
132
42
36
46
30
34a
34b
124
112
130b
130a
122

FIG. 35

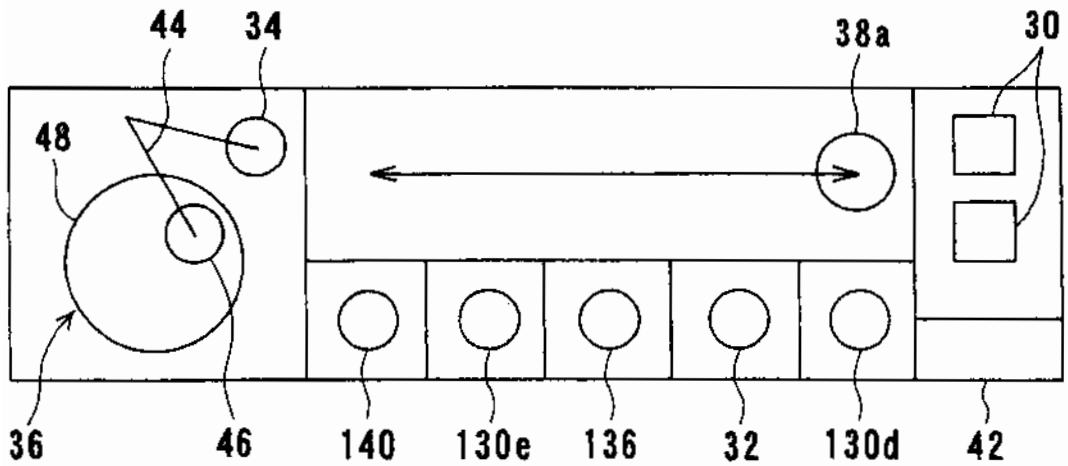

44
34
38a
30
48
36
46
140
130e
136
32
130d
42

FIG. 36

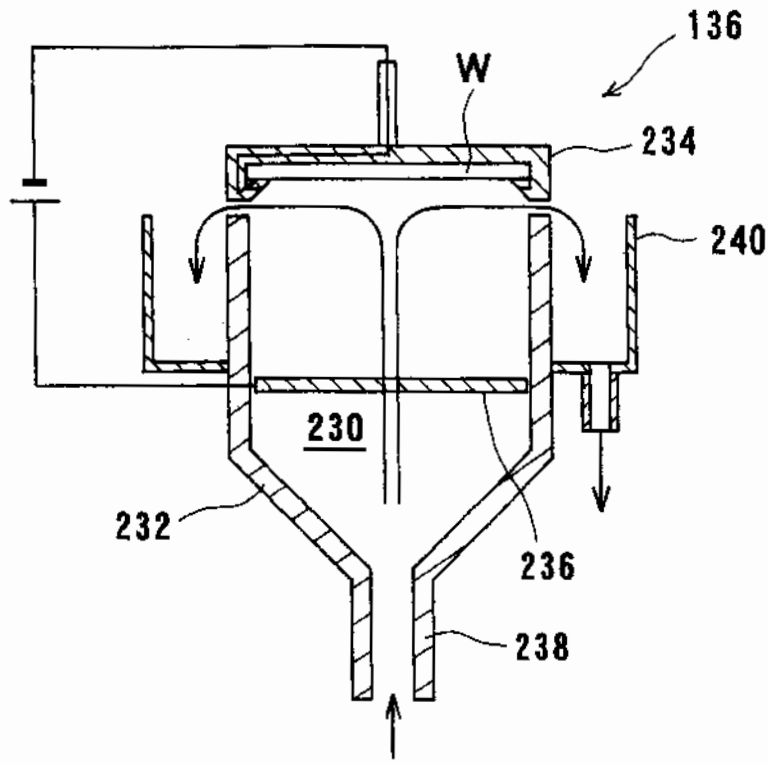

136
W
234
240
230
232
236
238

FIG. 37

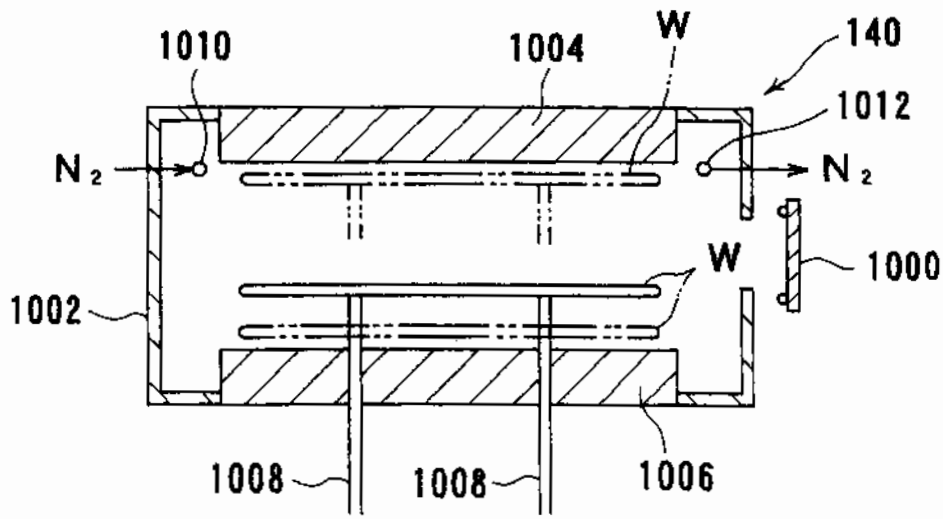

1010
1004
W
140
1012
N2
N2
W
1000
1002
1008
1008
1006

FIG. 38

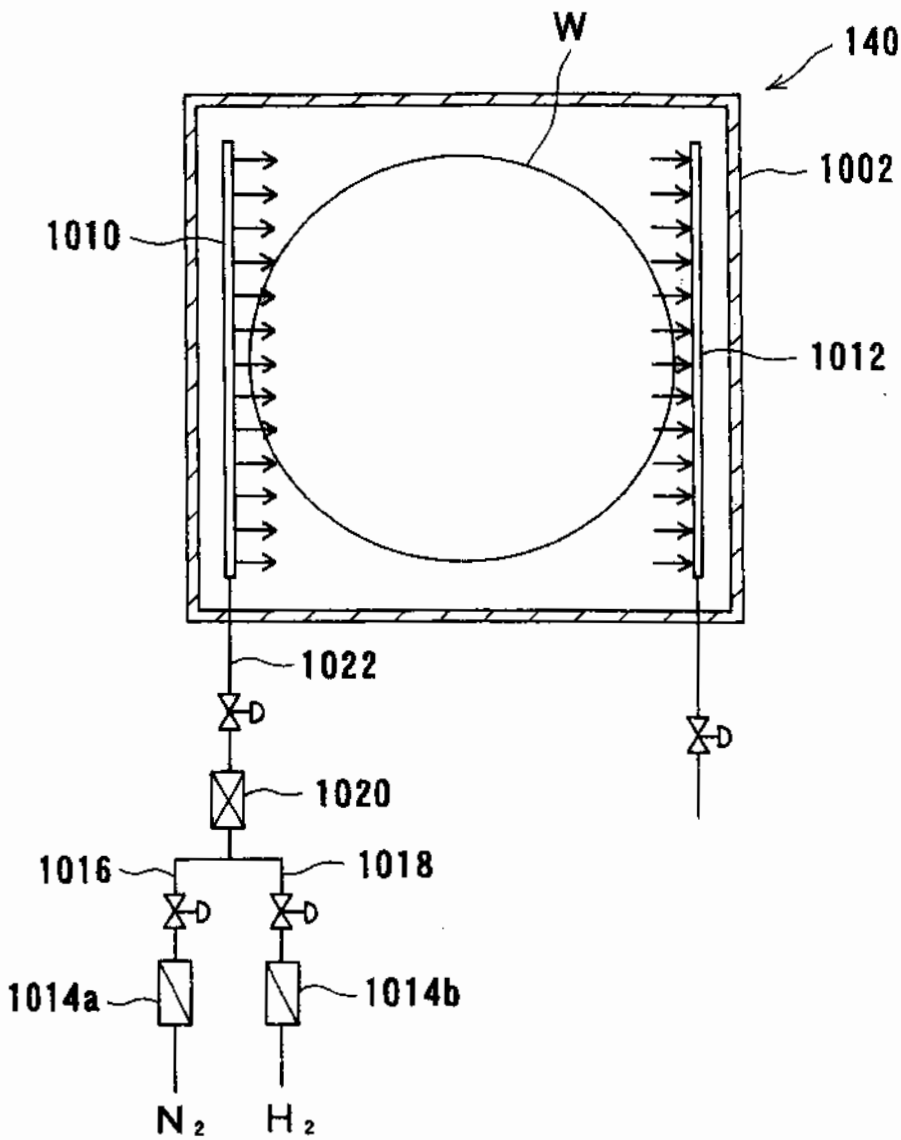


FIG. 39

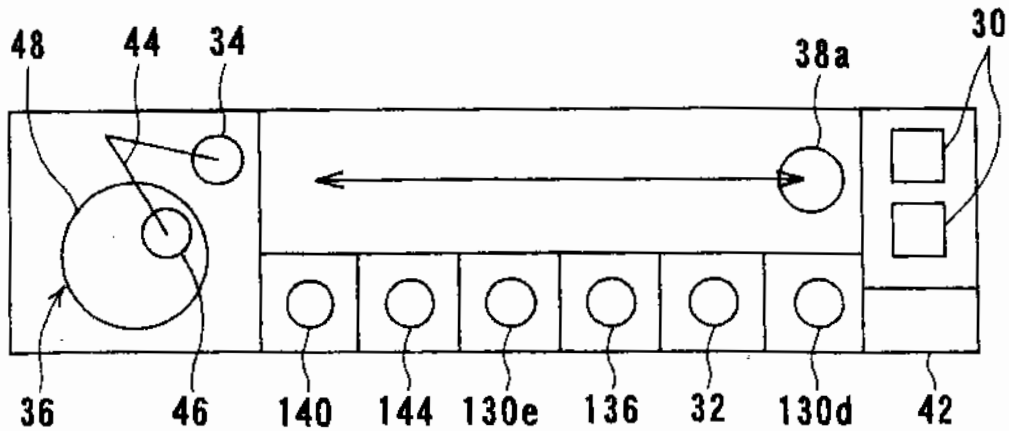

48
44
34
38a
30
36
46
140
144
130e
136
32
130d
42

FIG. 40

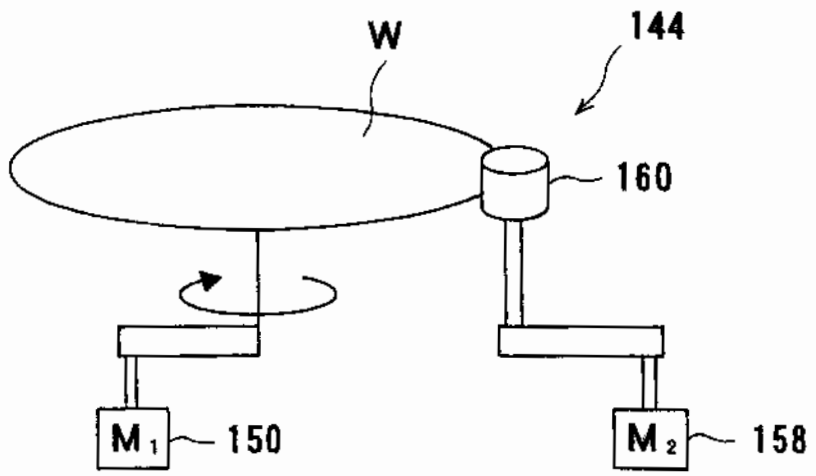

W
144
160
M1
150
M2
158

FIG. 41

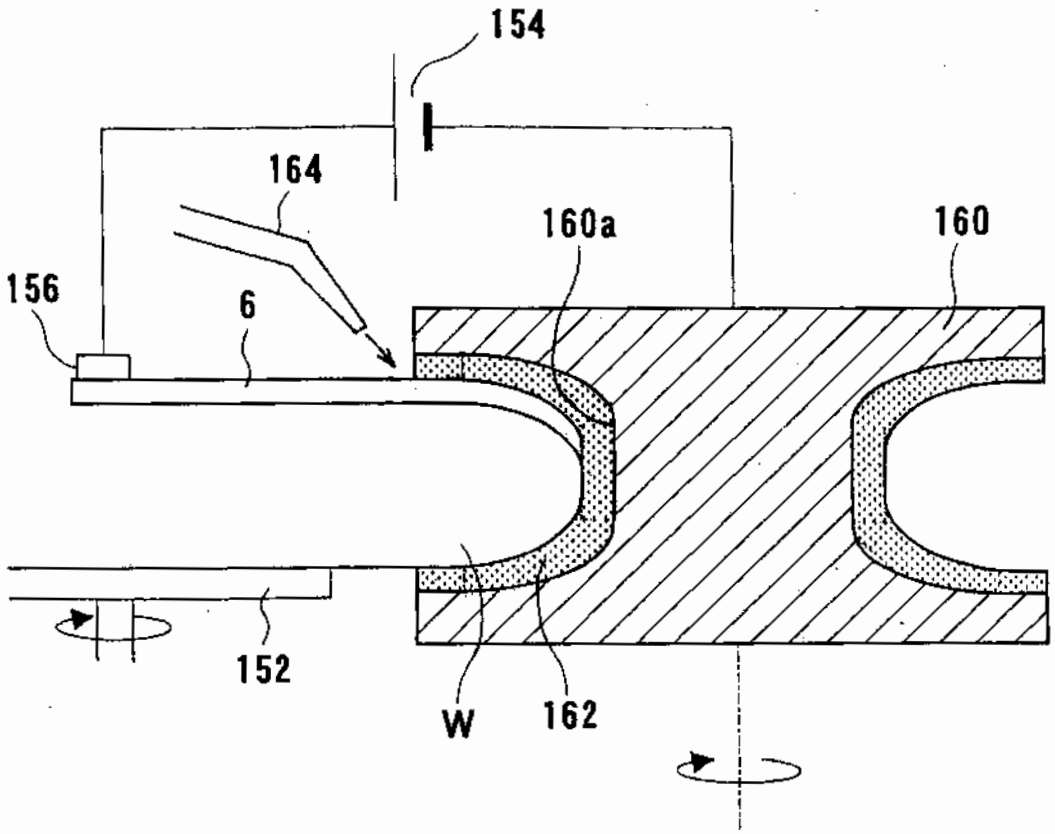

154
164
160a
160
156
6
152
W
162

FIG. 42

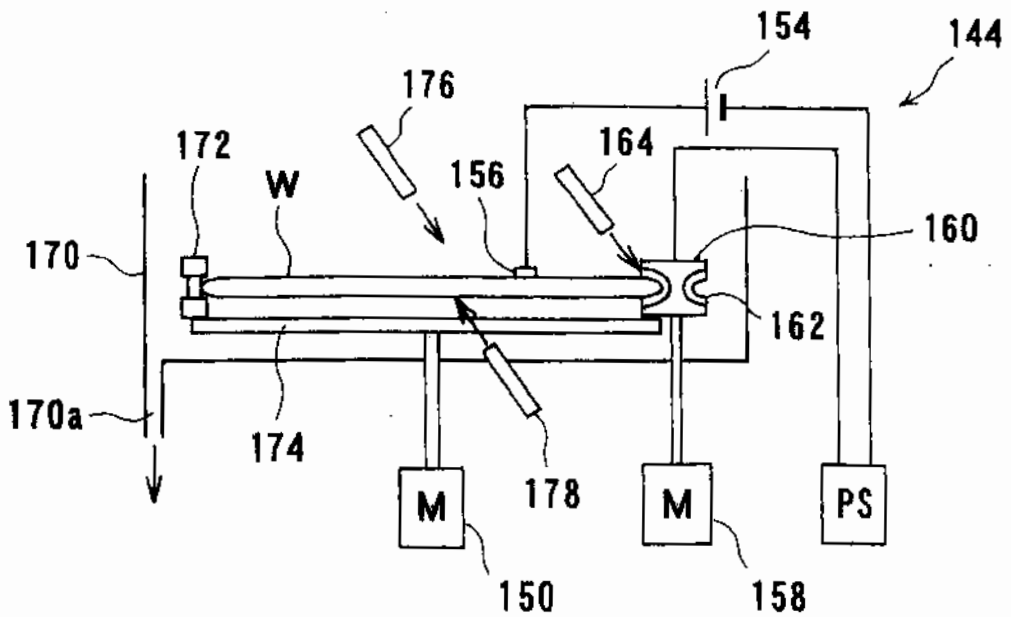

154
144
176
172
W
156
164
160
170
162
170a
174
178
M
M
PS
150
158

FIG. 43

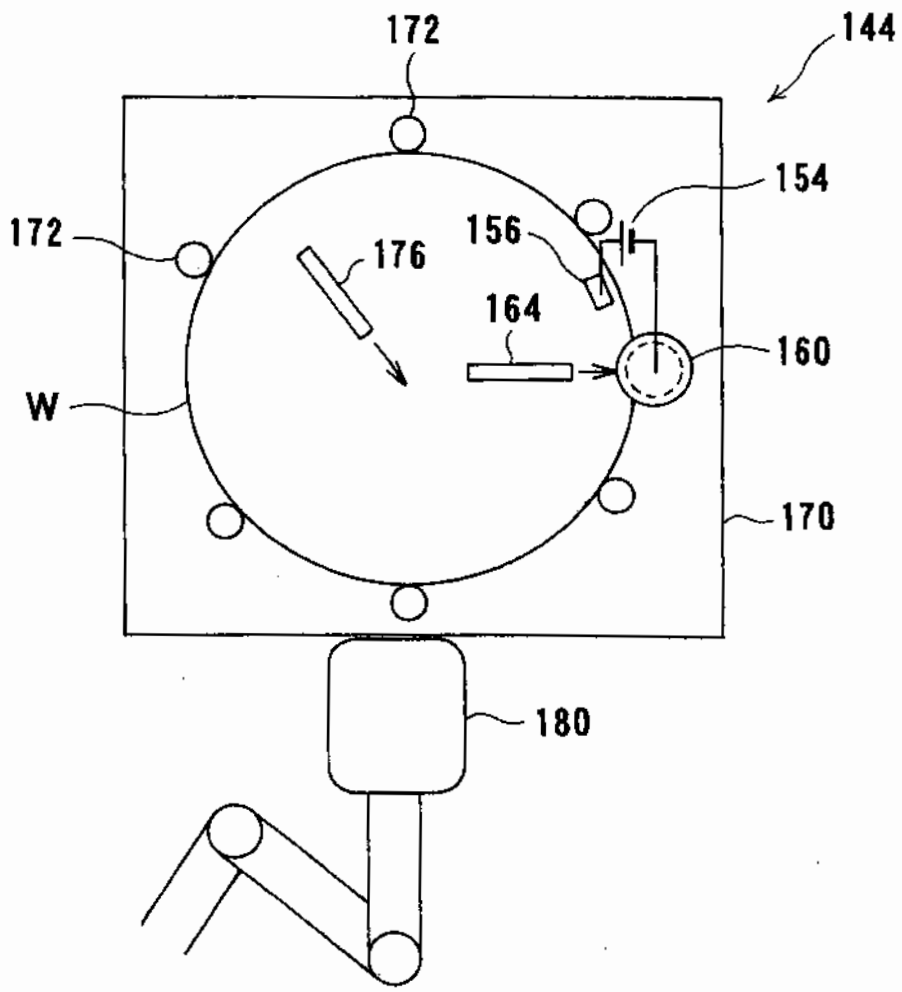


FIG. 44

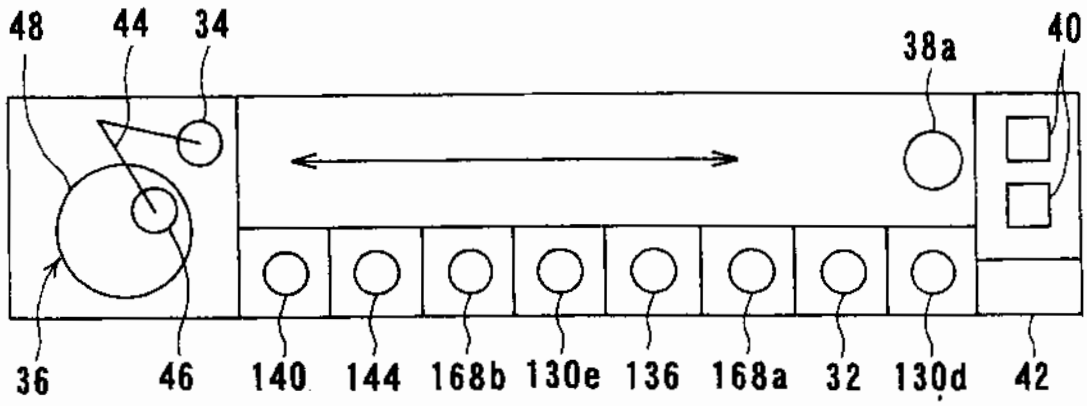

48
44
34
38a
40
36
46
140
144
168b
130e
136
168a
32
130d
42

FIG. 45

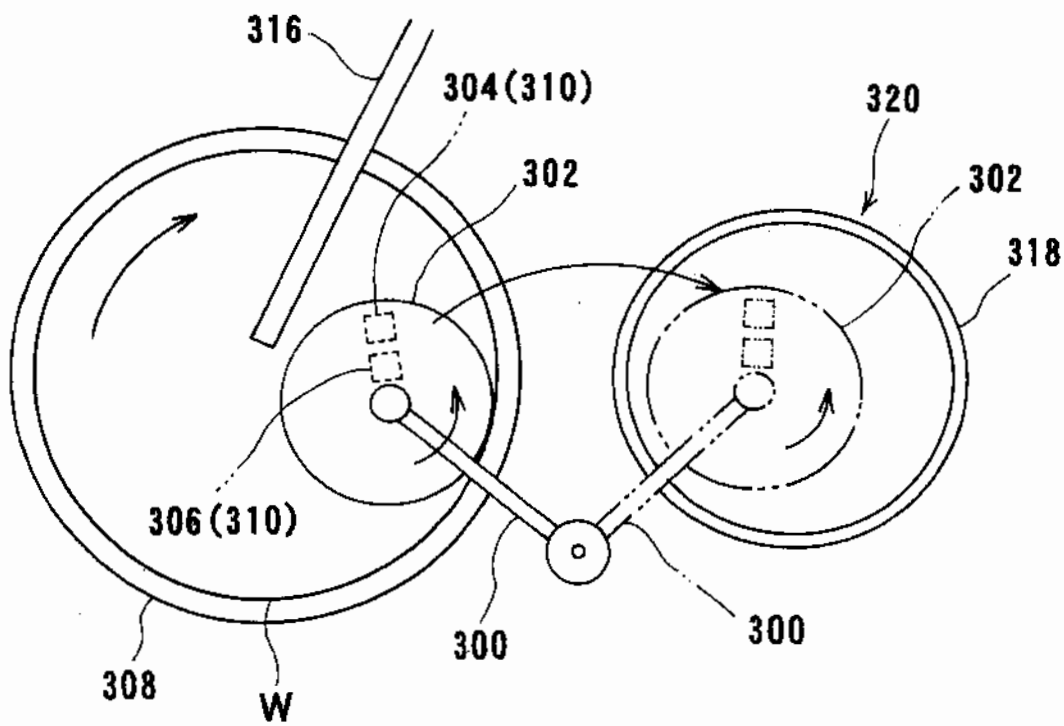

316
304(310)
320
302
302
318
306(310)
300
300
308
W

FIG. 46

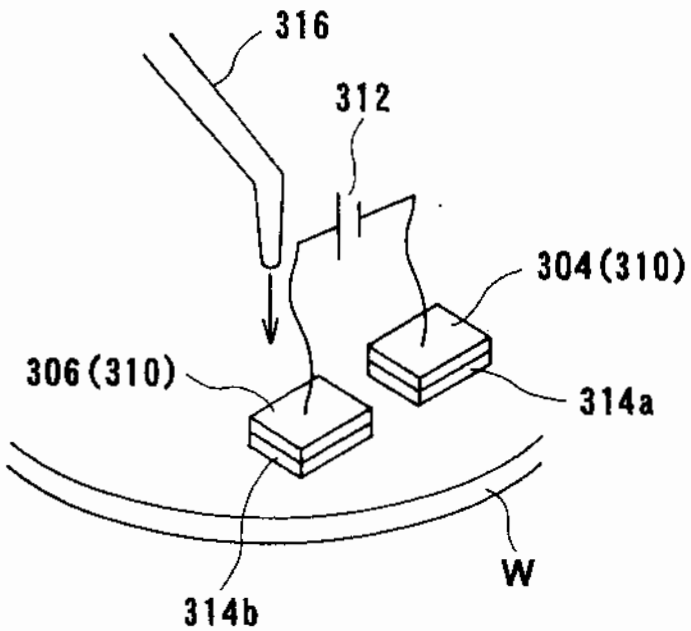

316
312
304(310)
306(310)
314a
314b
W

FIG. 47

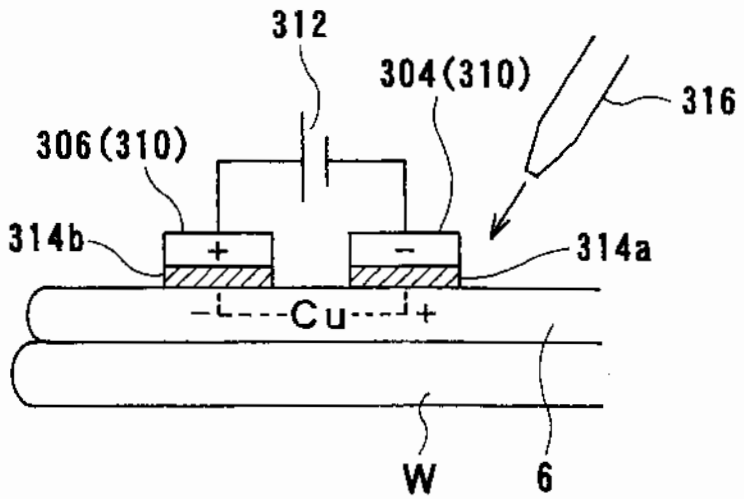

312
304(310)
316
306(310)
314b
+
−
314a
−Cu+
W
6

FIG. 48A

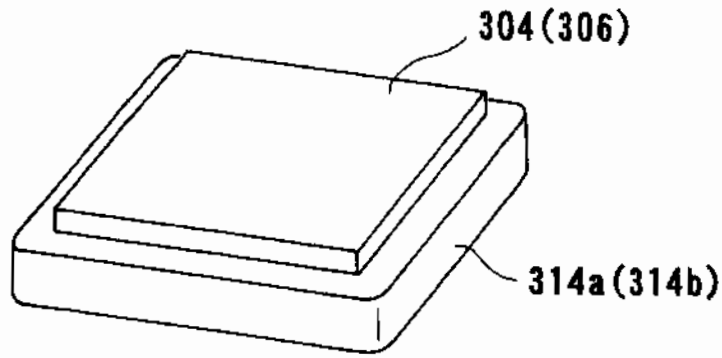


FIG. 48B

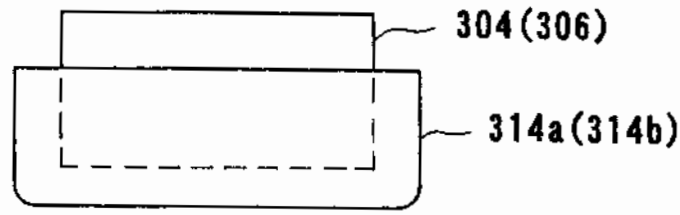


FIG. 49A

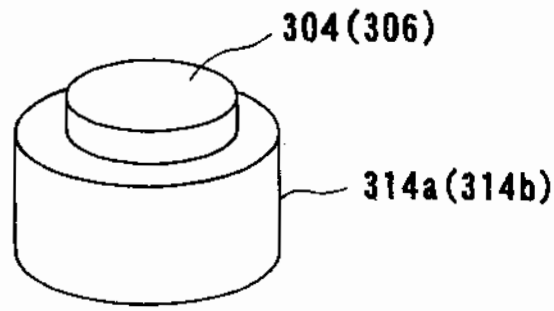


FIG. 49B

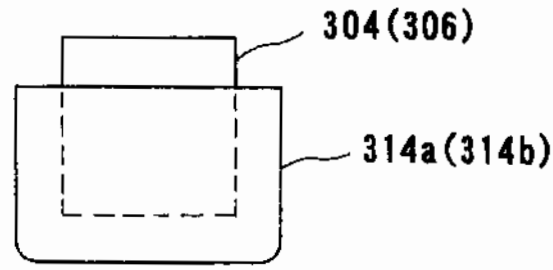


FIG. 50

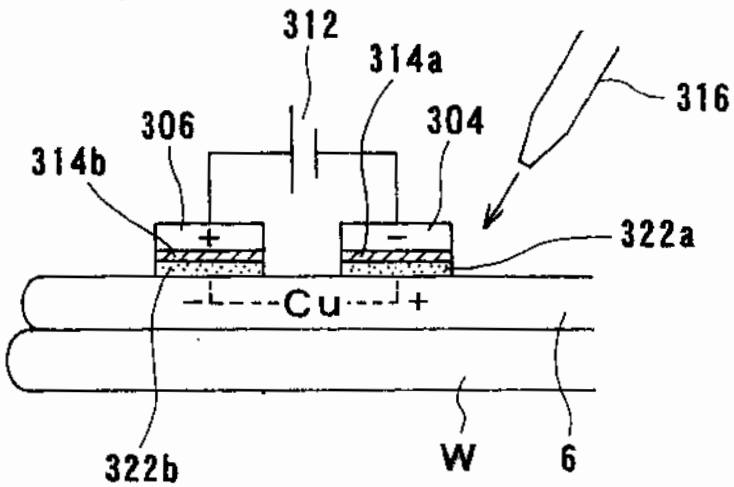


FIG. 51

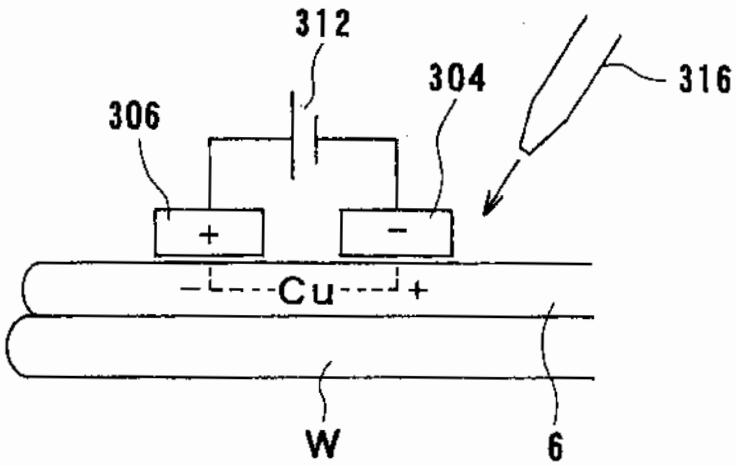


FIG. 52

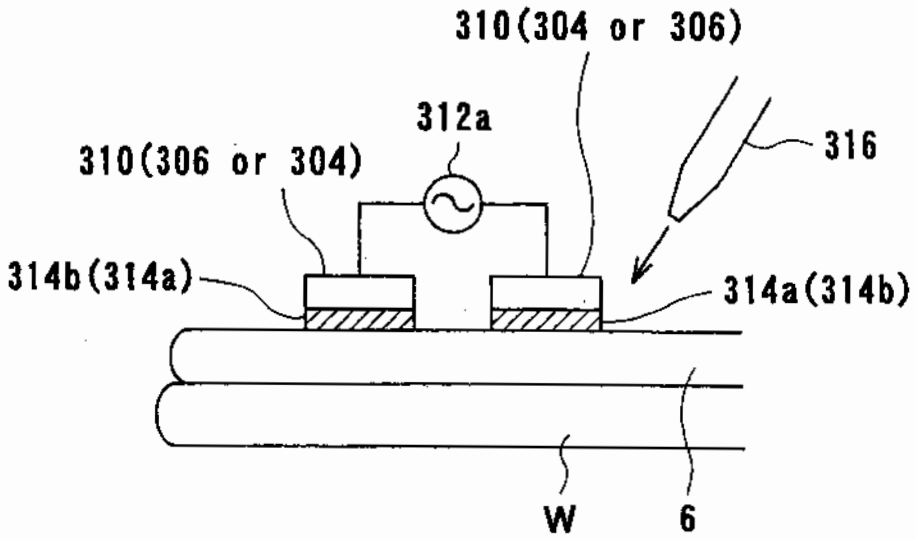

310(304 or 306)
312a
316
310(306 or 304)
314b(314a)
314a(314b)
W
6

FIG. 53

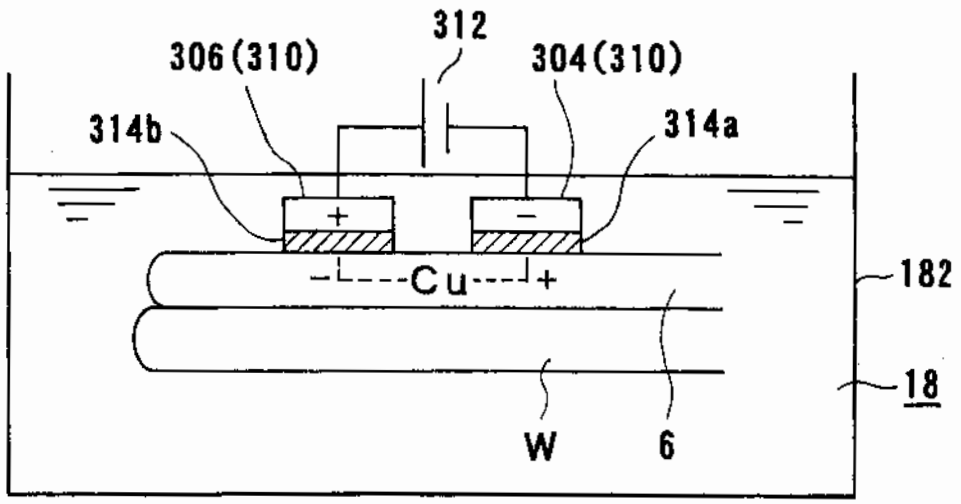

312
306(310)
304(310)
314b
314a
+
−
Cu
182
18
W
6

FIG. 54A

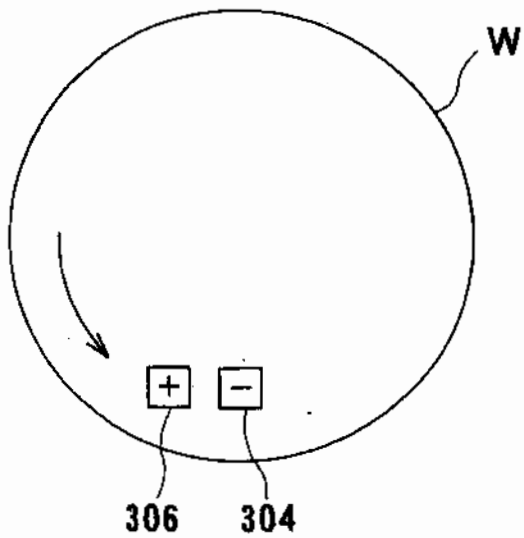


FIG. 54B

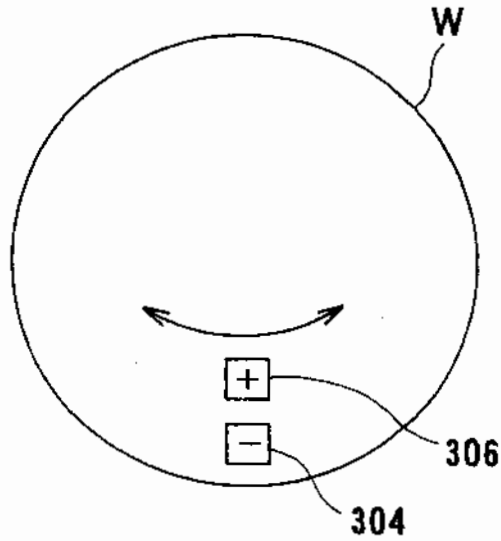


FIG. 55

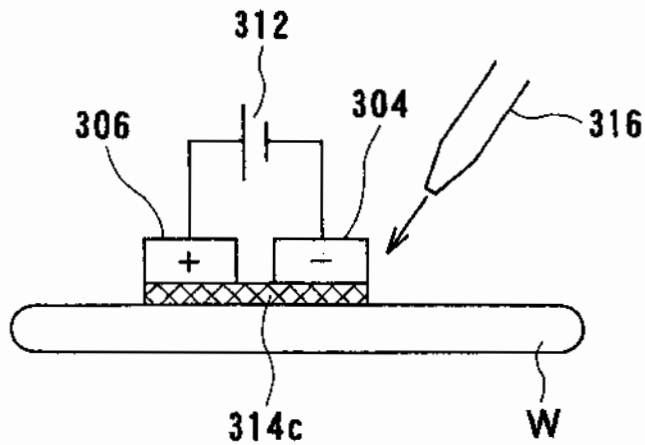


FIG. 56

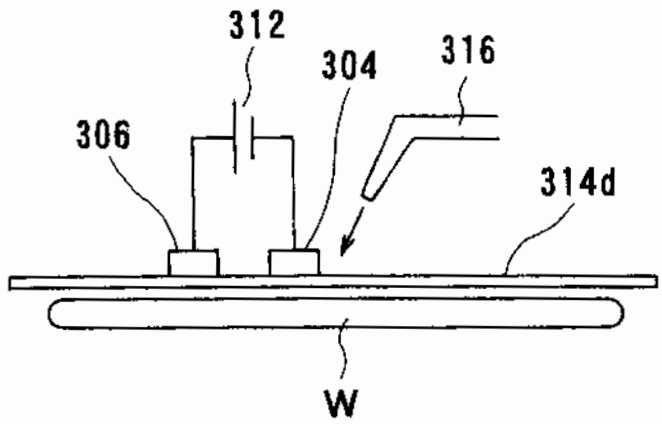

312
304
316
306
314d
W

FIG. 57

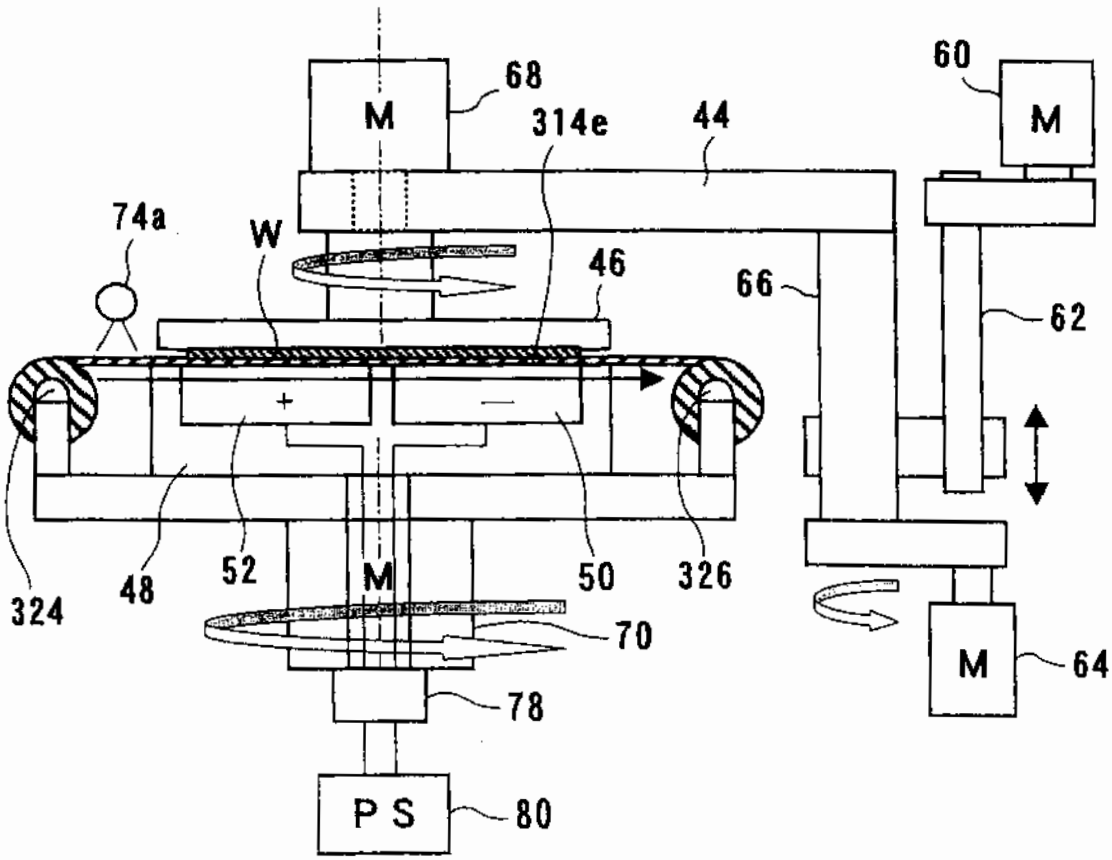

M
68
314e
44
60
M
74a
W
46
66
62
+
−
324
48
52
M
50
326
70
M
64
78
PS
80

FIG. 58

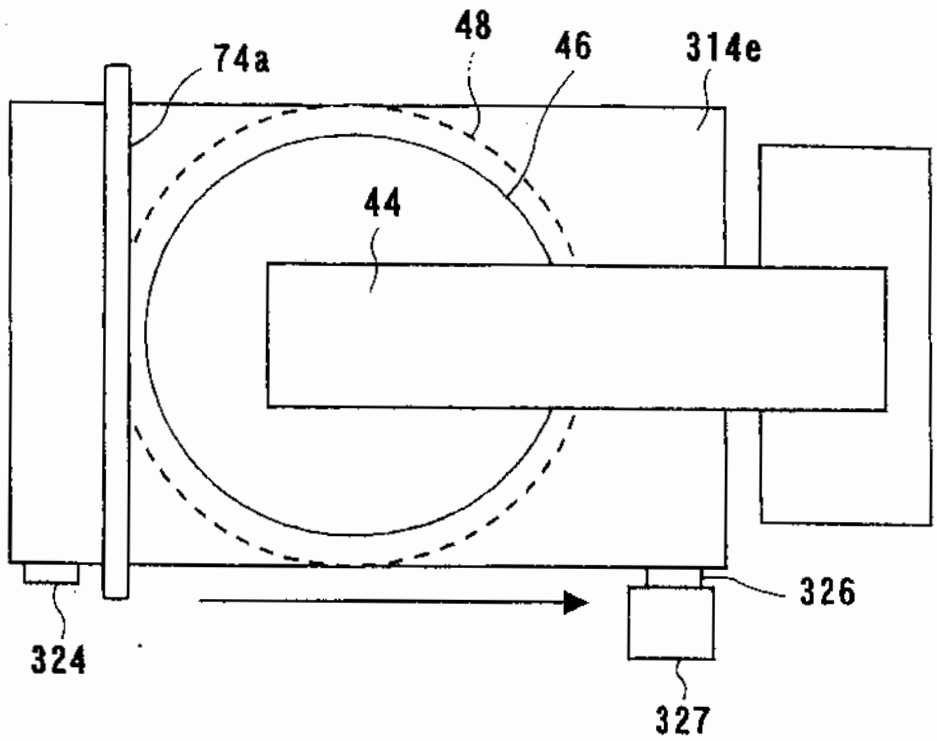


FIG. 59

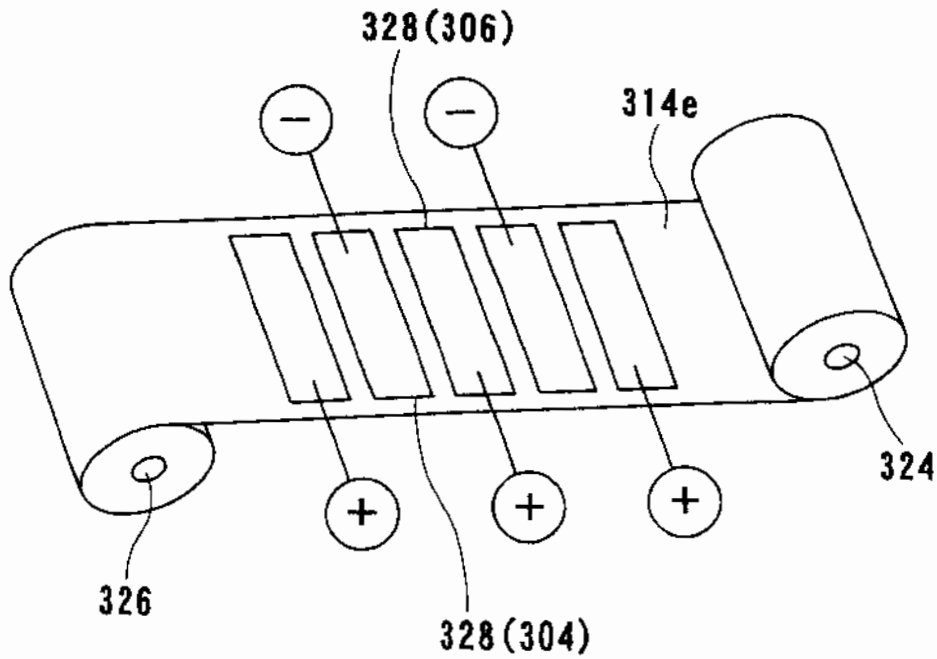


FIG. 60

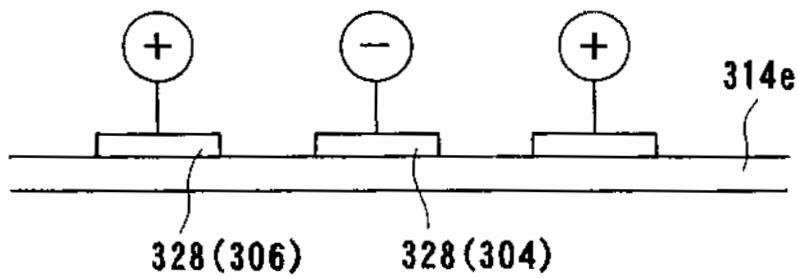


FIG. 61A

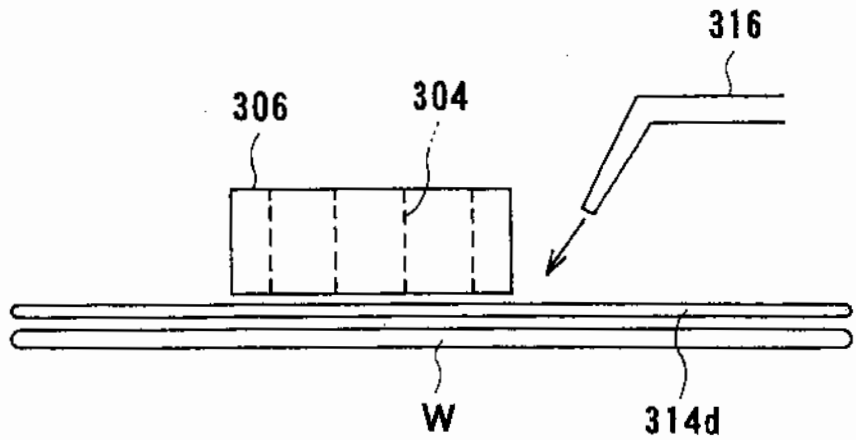


FIG. 61B

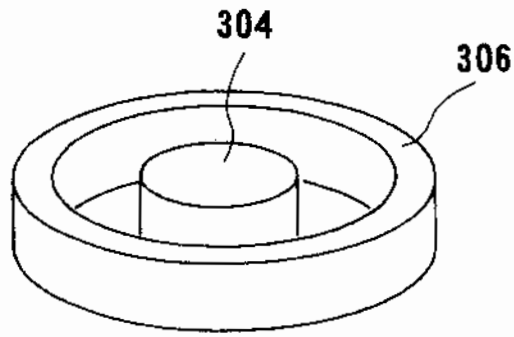


FIG. 62

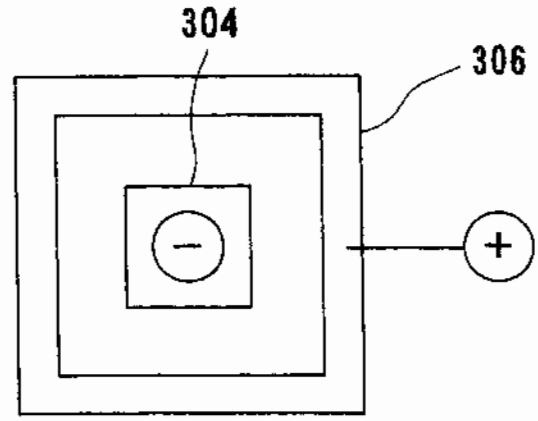


FIG. 63

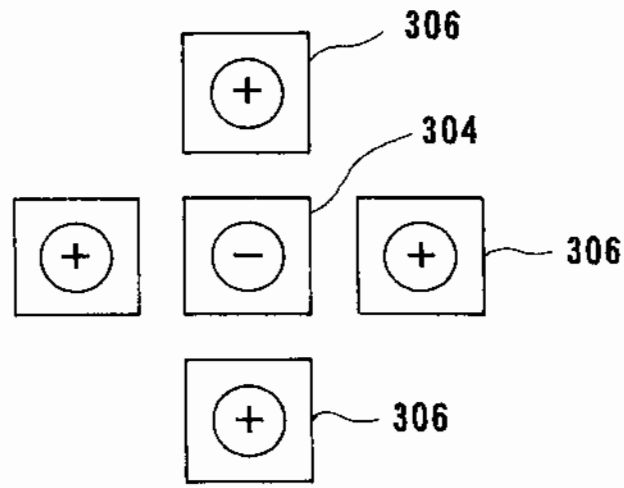


FIG. 64

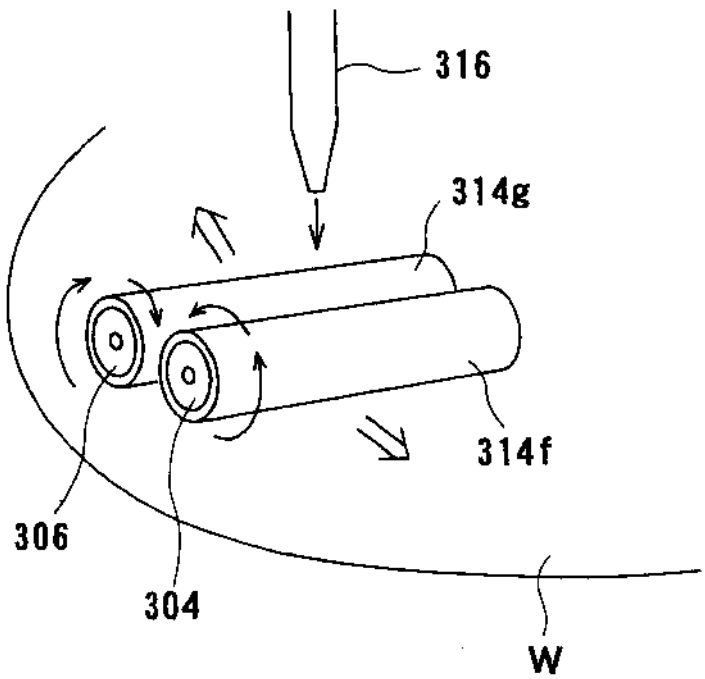


FIG. 65

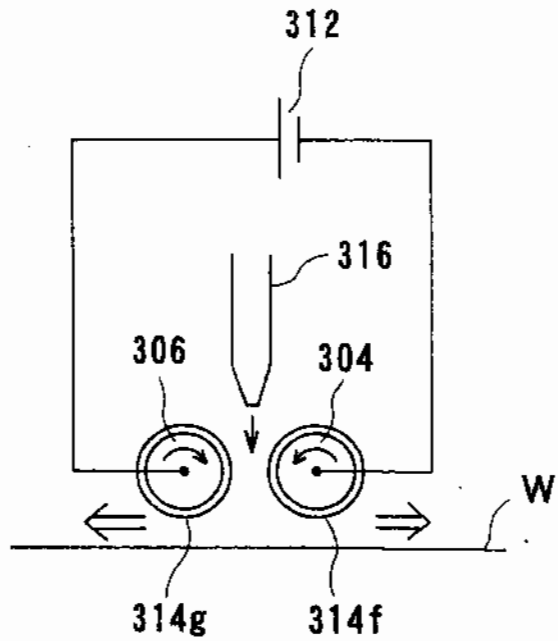

312
316
306
304
W
314g
314f

FIG. 66

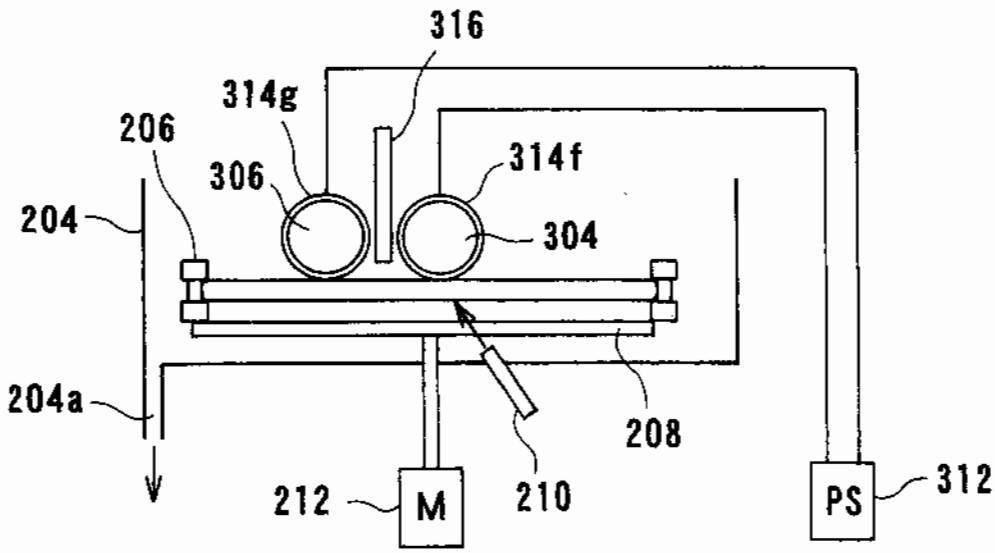

316
314g
206
306
314f
204
304
204a
208
212
M
210
PS
312

FIG. 67

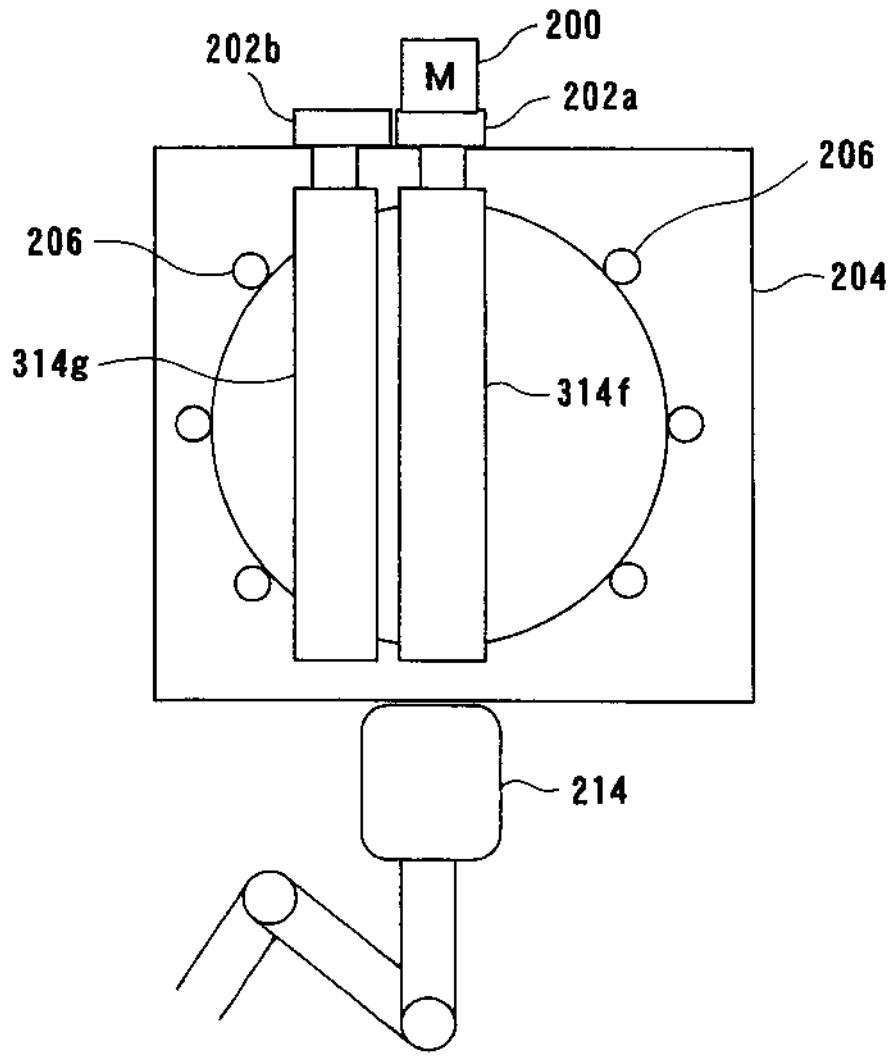


FIG. 68

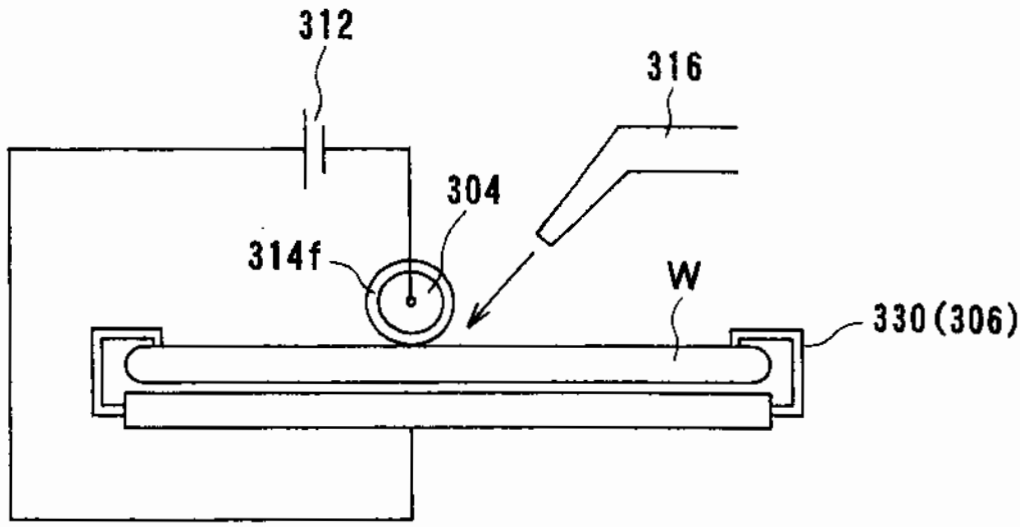


FIG. 69

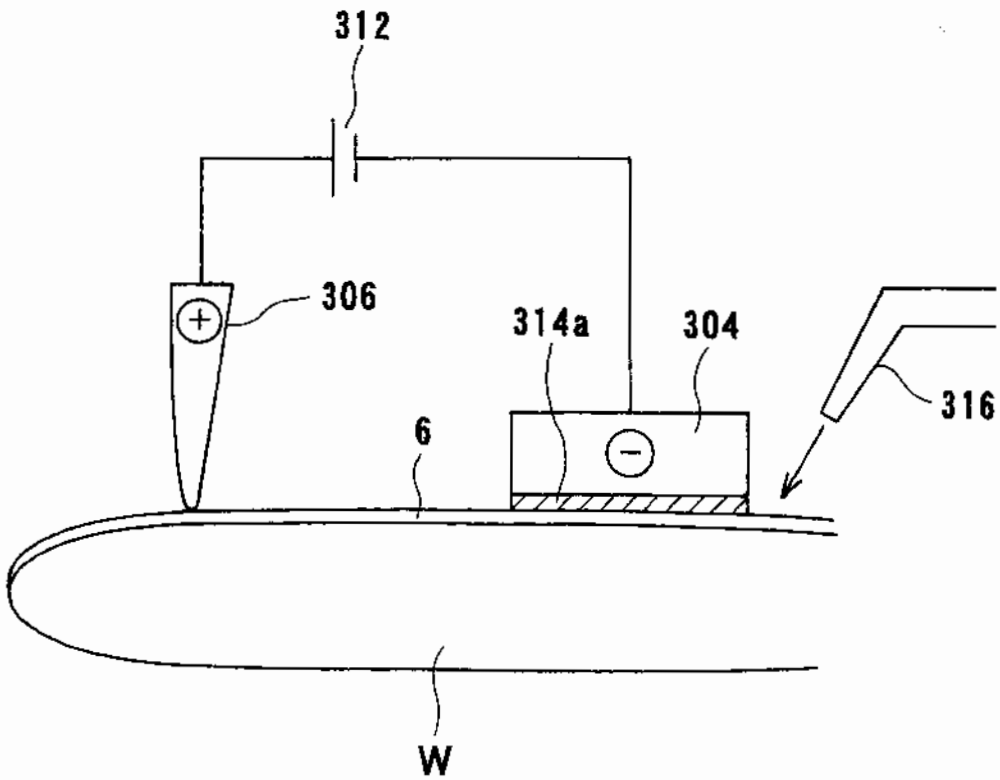


FIG. 70

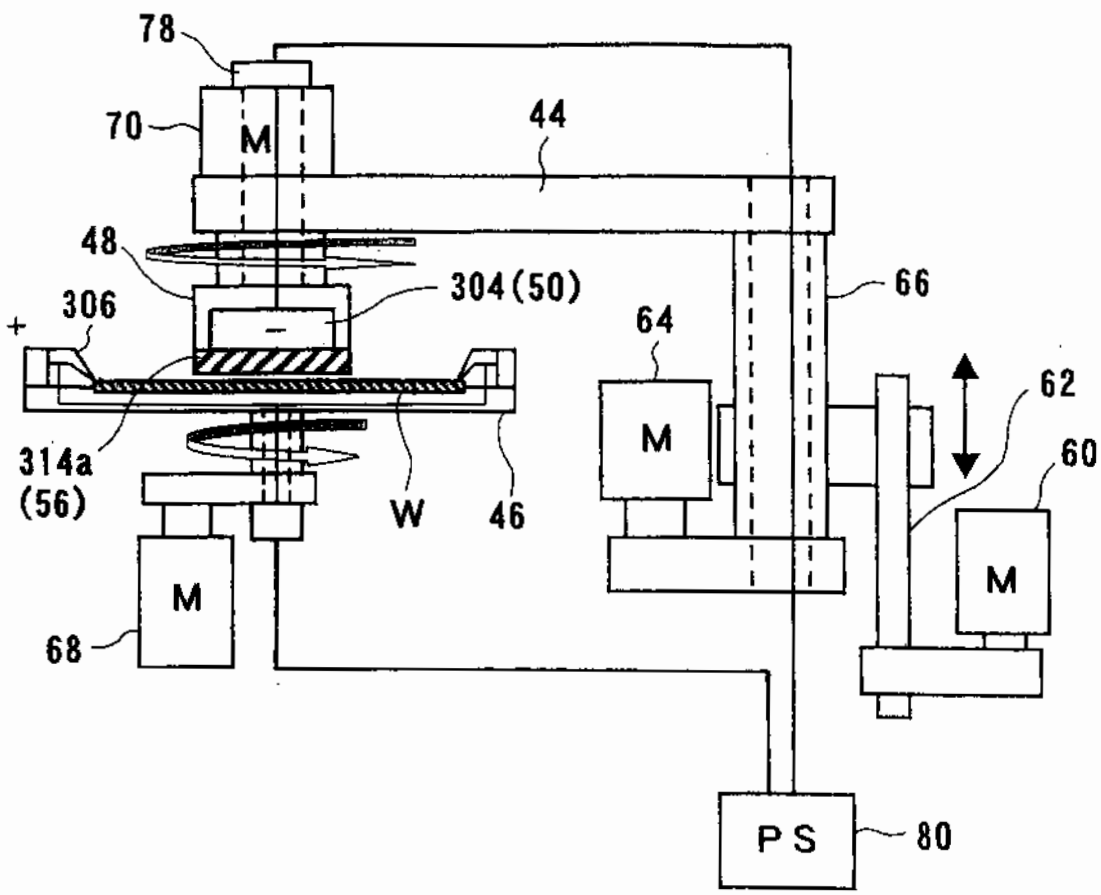


FIG. 71

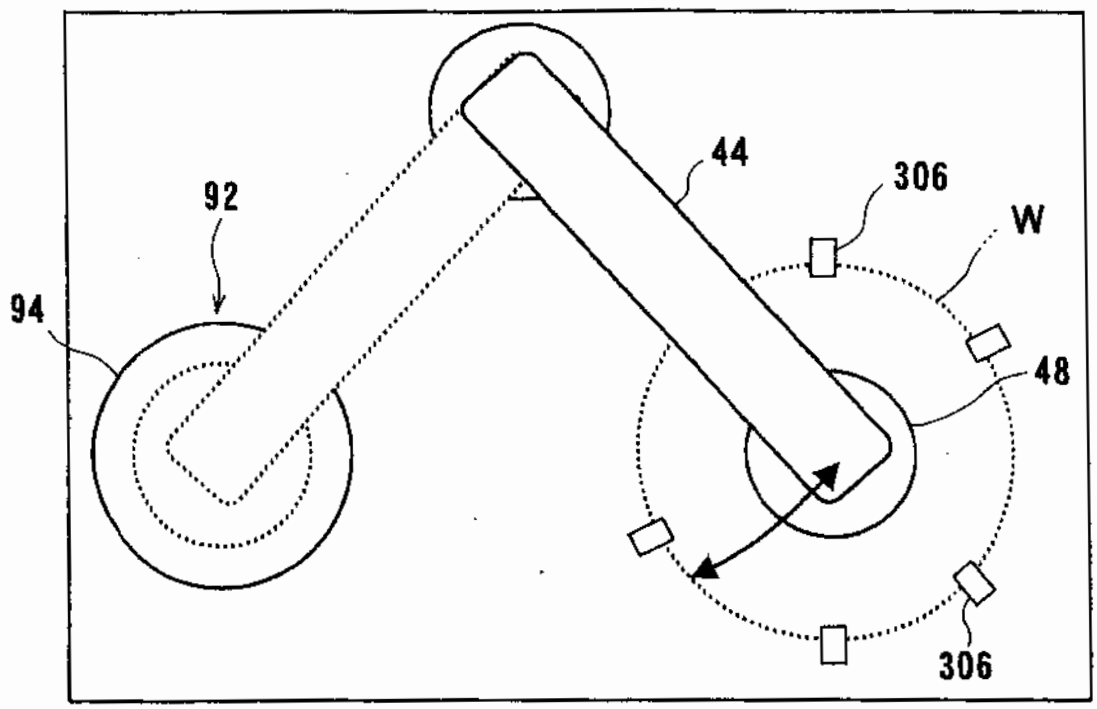


FIG. 72

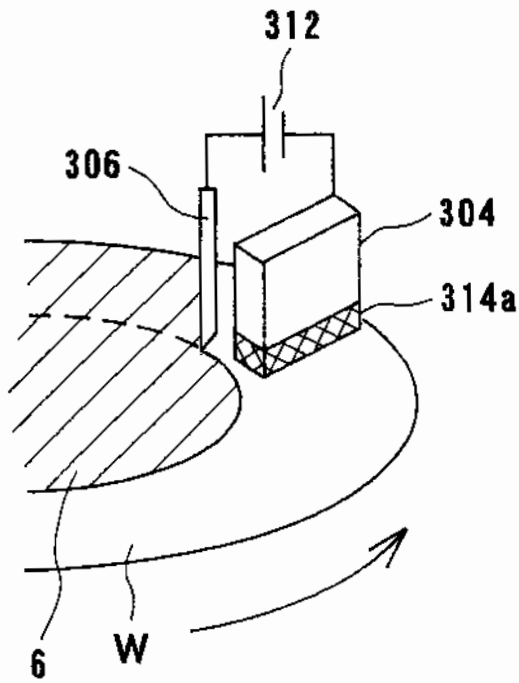


FIG. 73

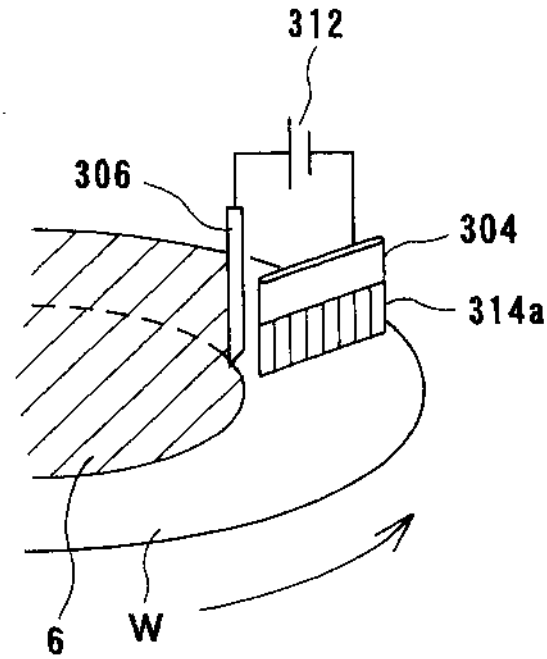


FIG. 74

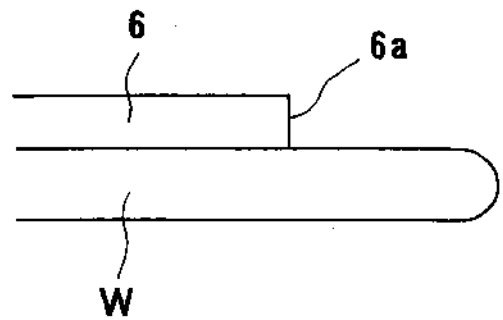


FIG. 75

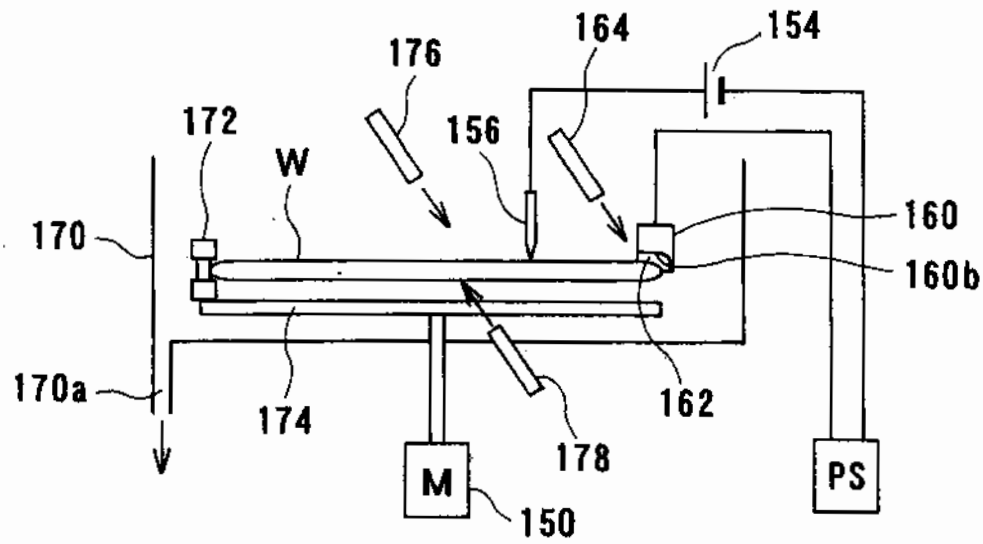


FIG. 76

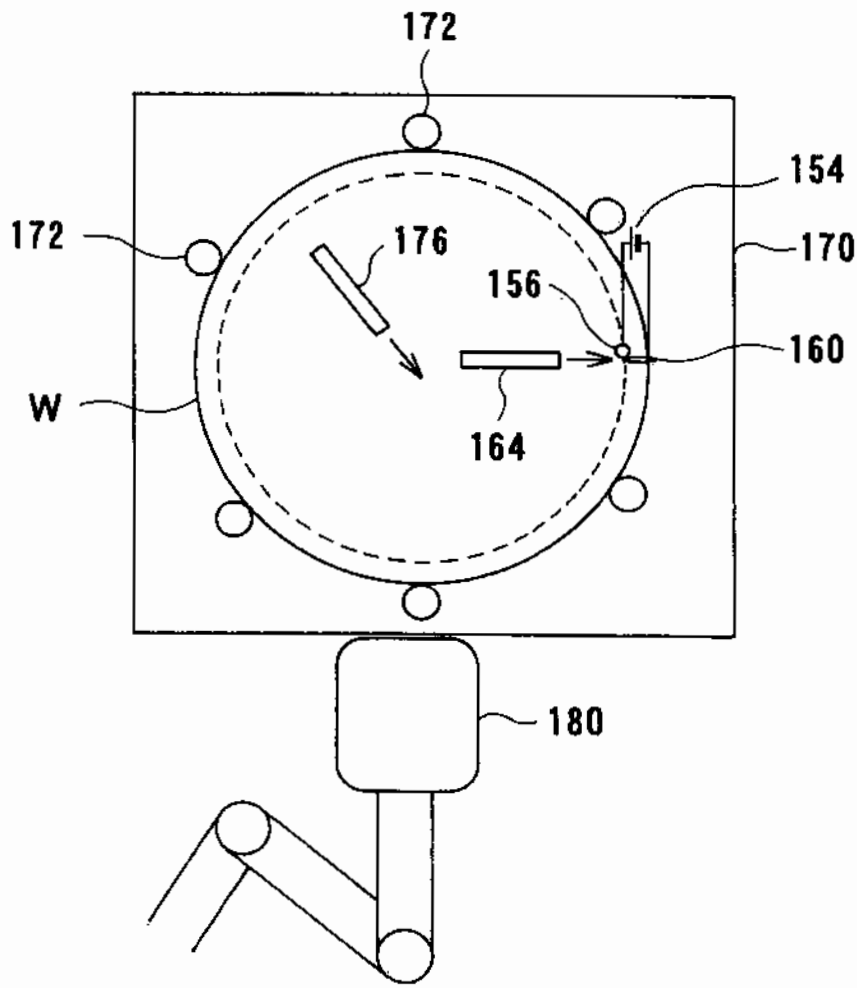


FIG. 77

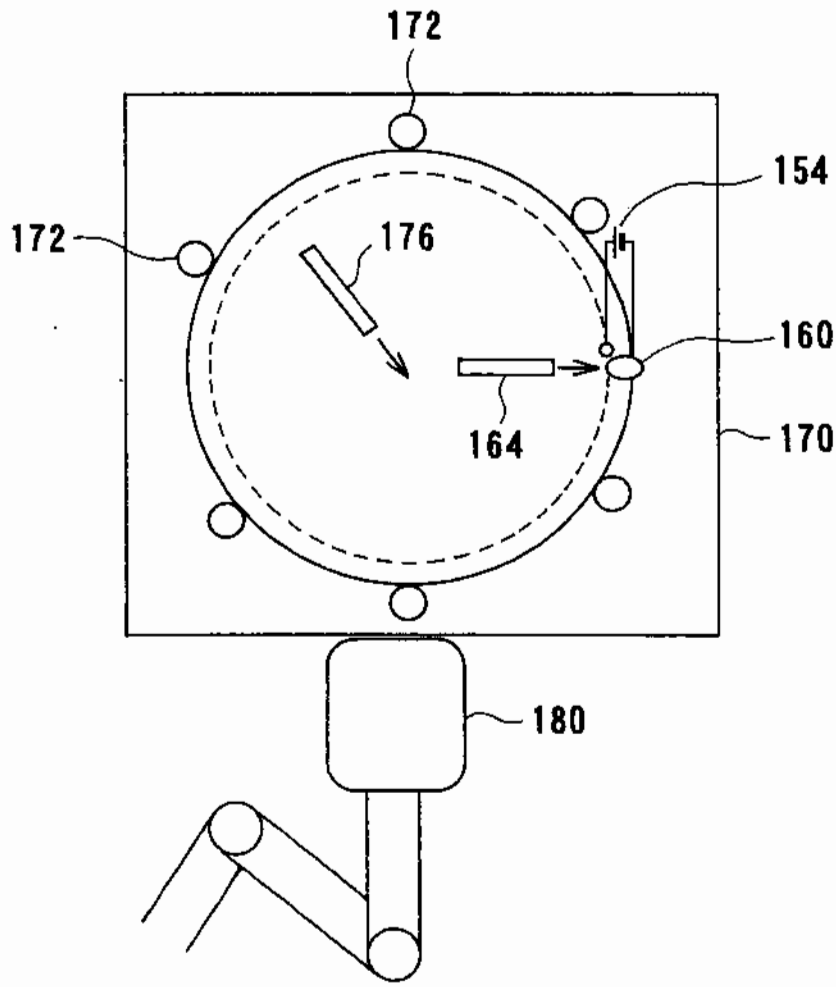


FIG. 78

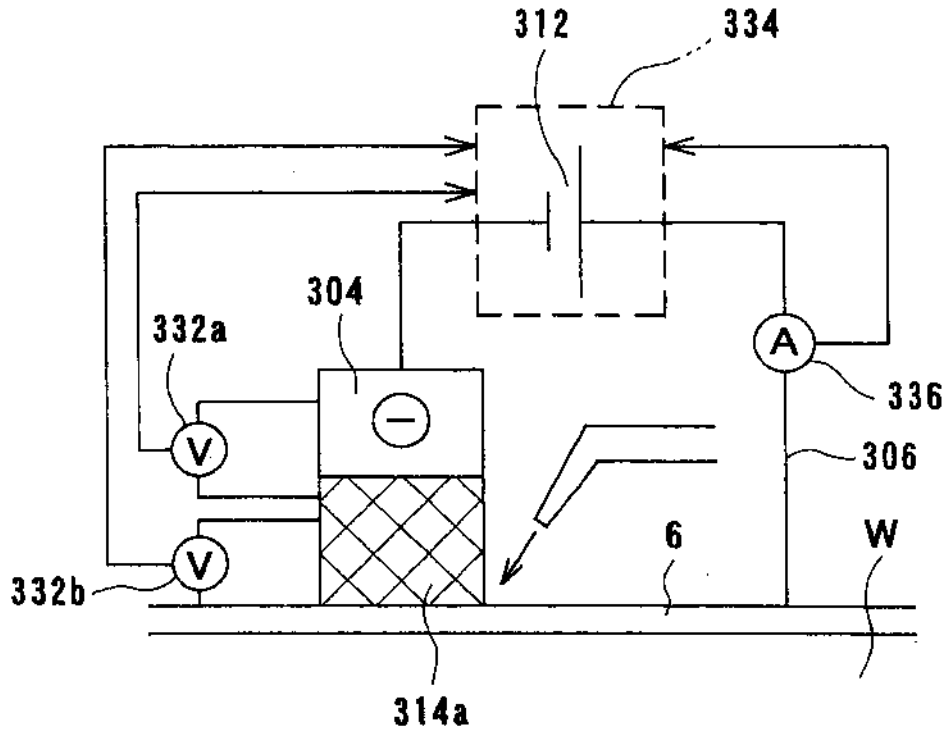

312
334
304
332a
A
336
V
306
V
6
W
332b
314a

FIG. 79

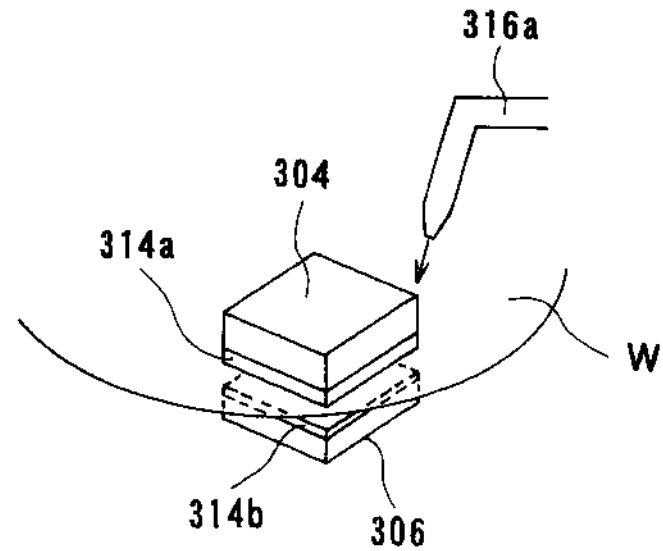

316a
304
314a
W
314b
306

FIG. 80

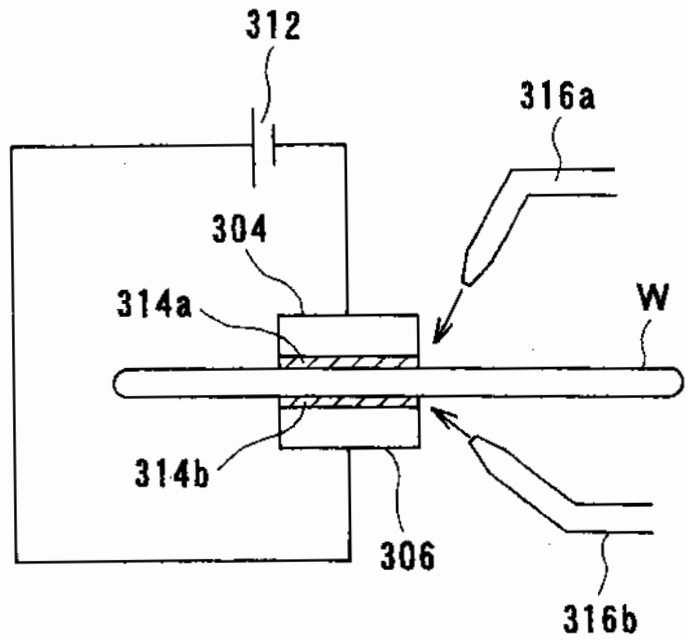


FIG. 81

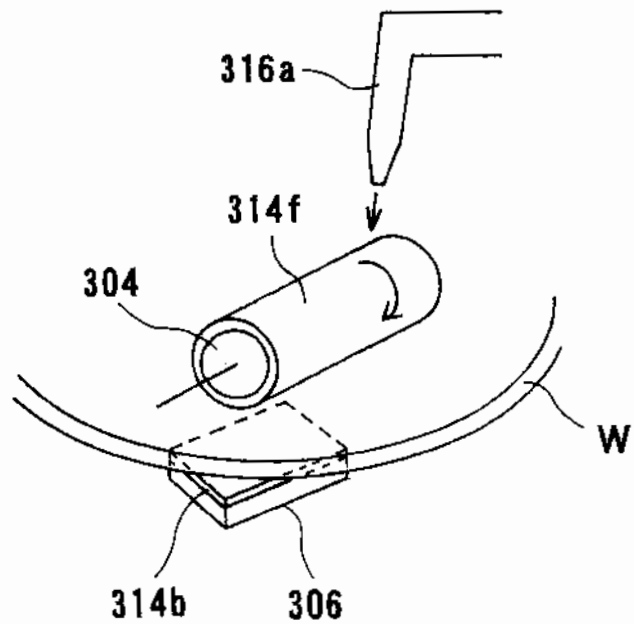


FIG. 82

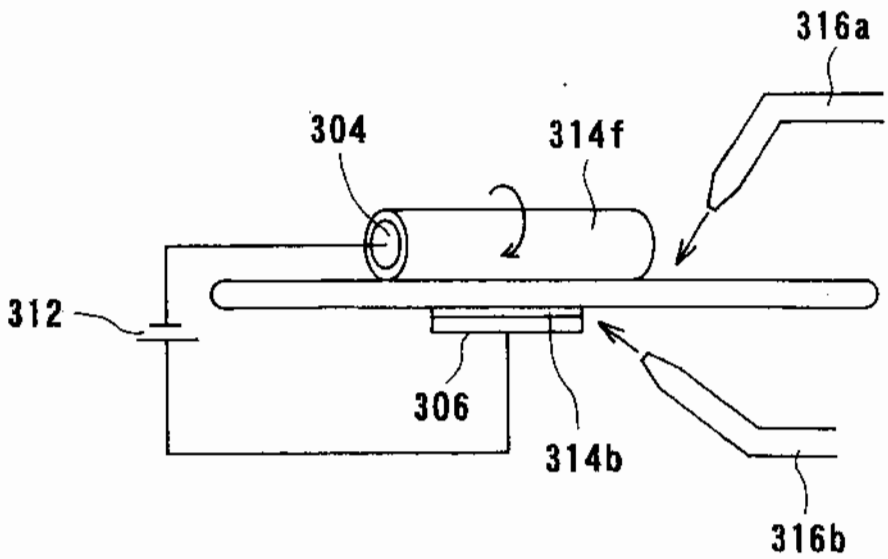


FIG. 83

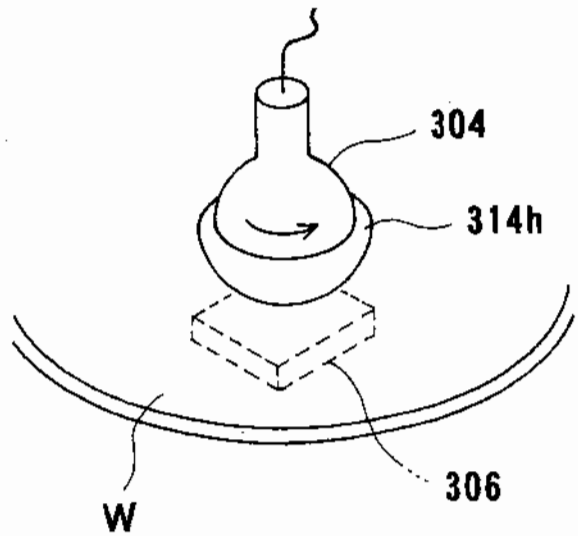


FIG. 84

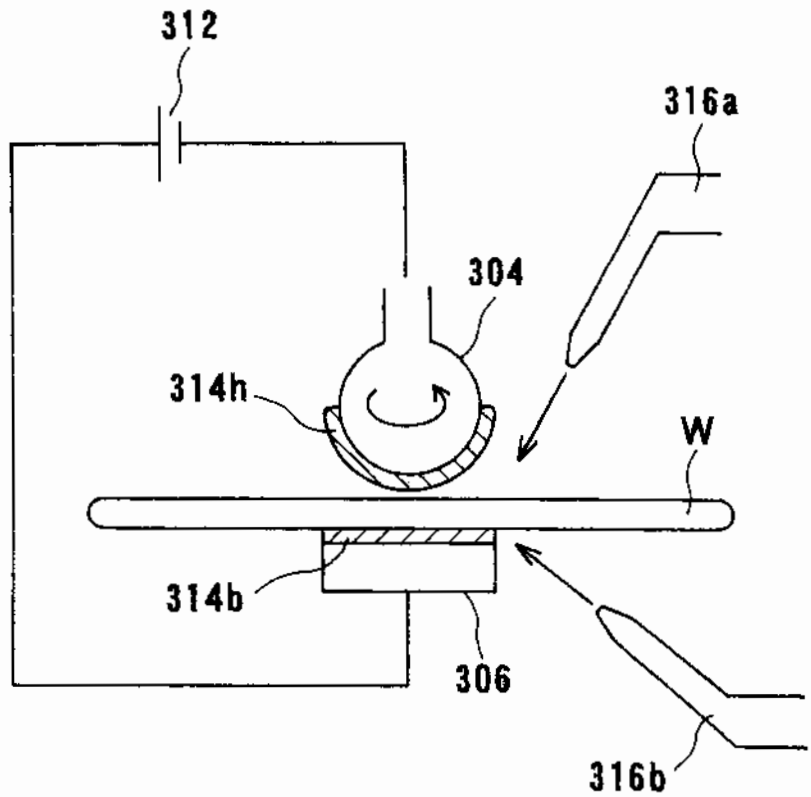


FIG. 85A

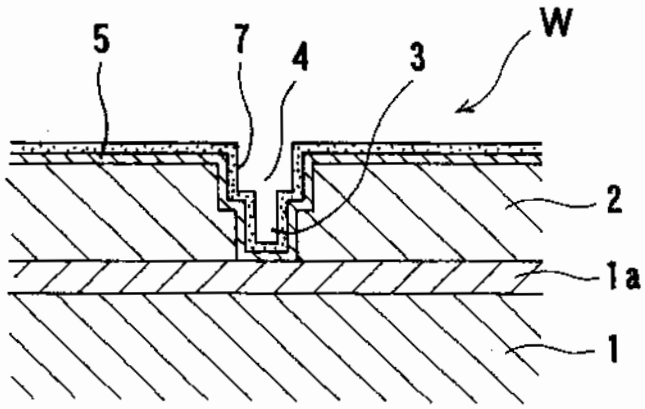


FIG. 85B

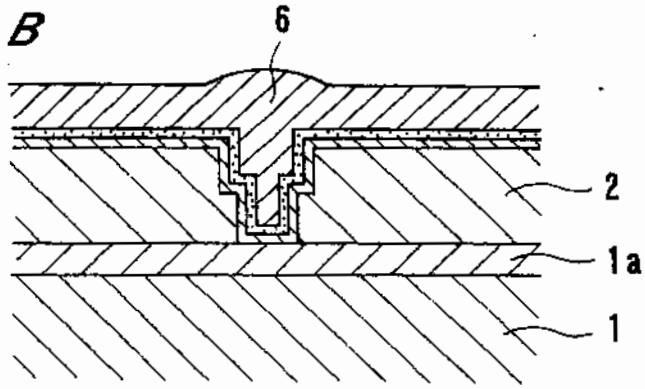


FIG. 85C

