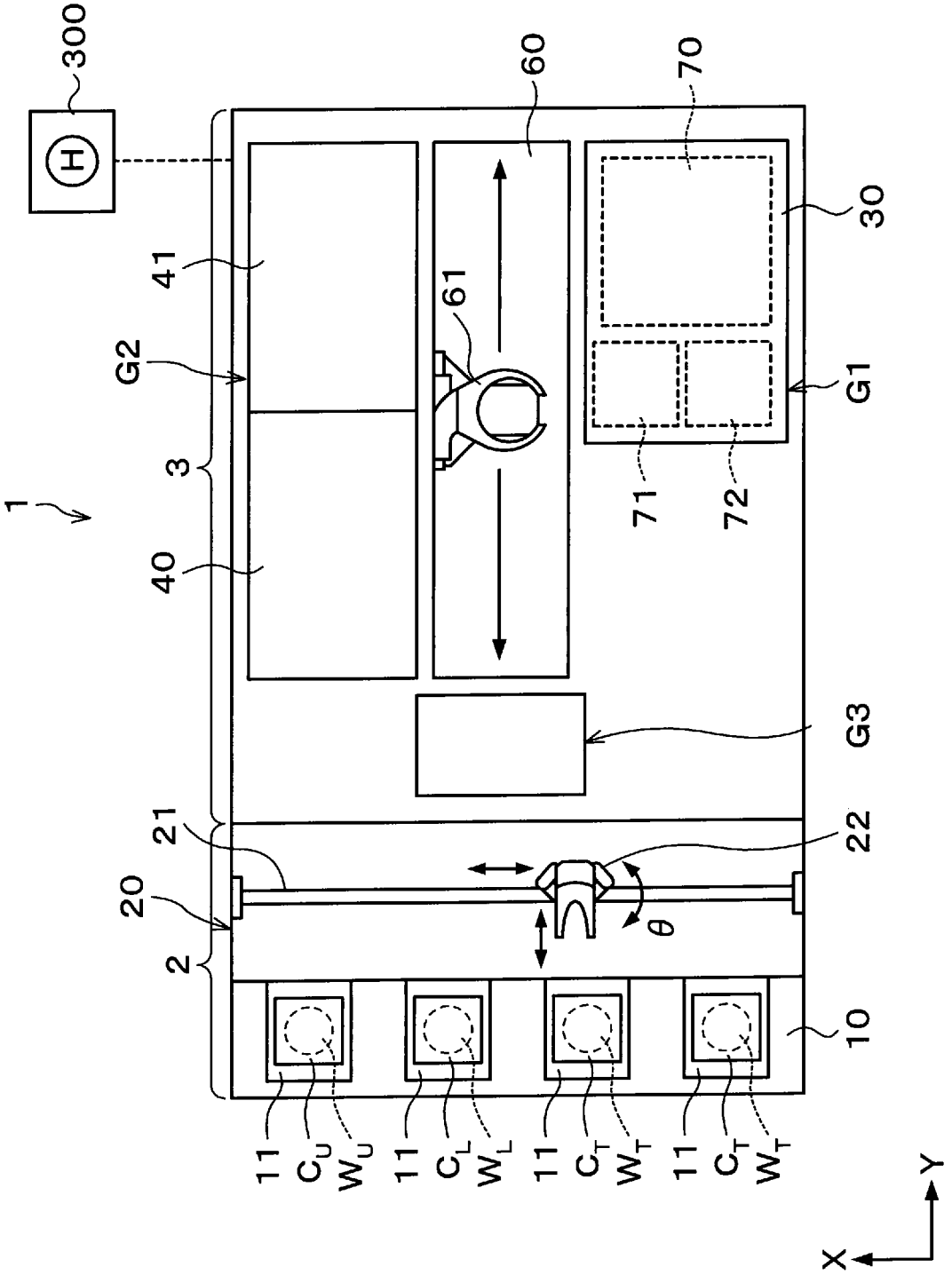
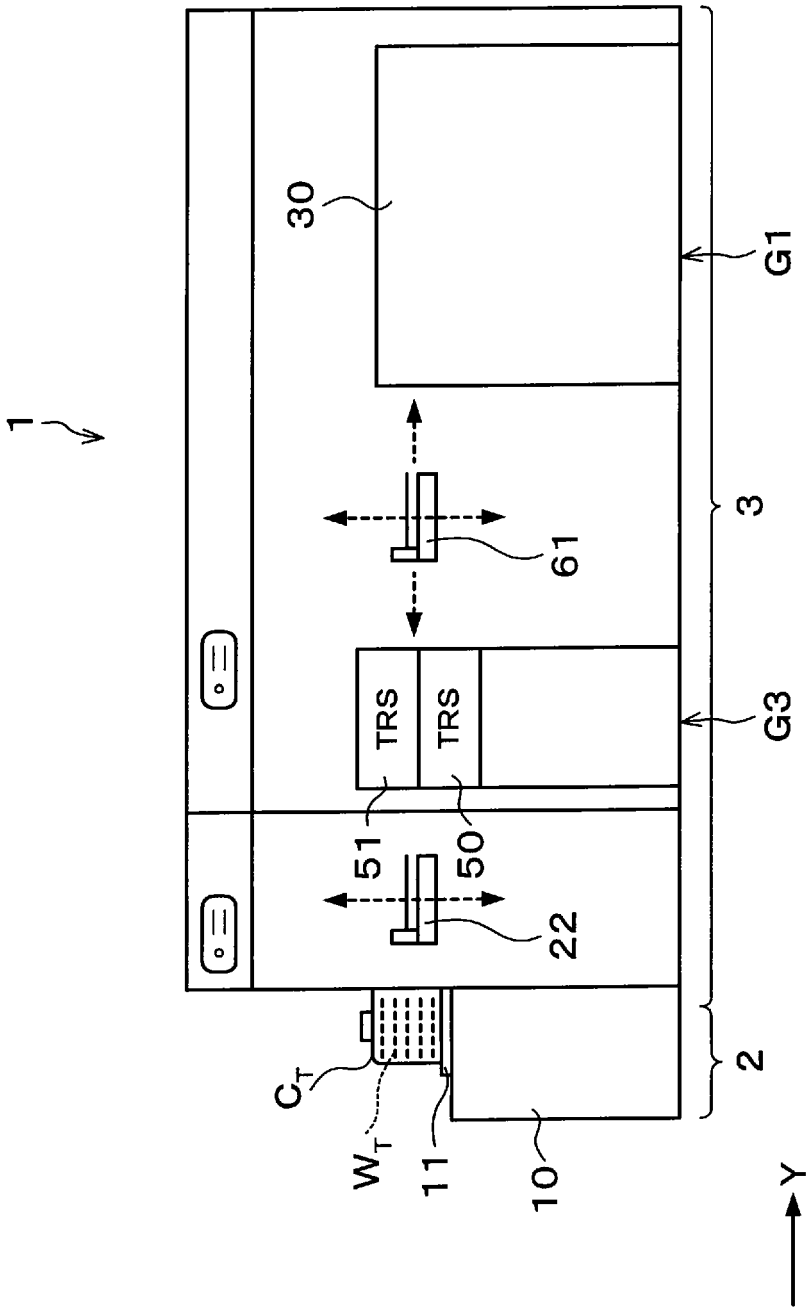
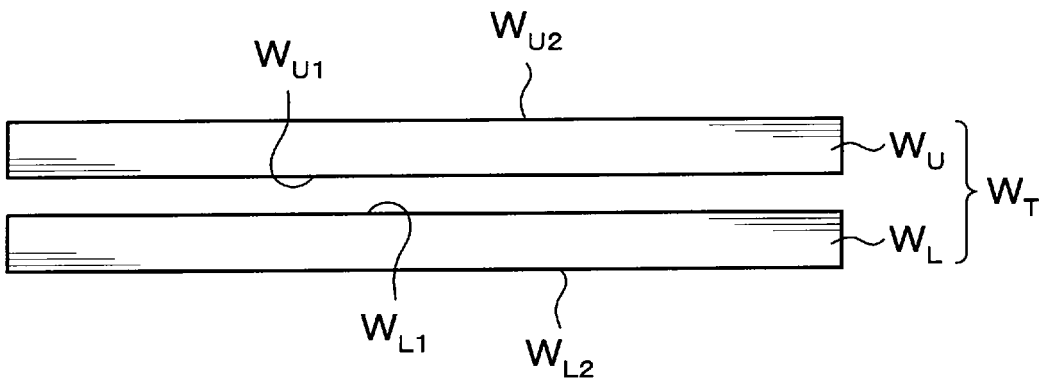
[図1]


300
H
60
70
30
41
61
G2
G1
3
1
71
72
40
G3
21
22
20
θ
2
10
11
C_U
W_U
11
C_L
W_L
11
C_T
W_T
11
C_T
W_T
Y
X

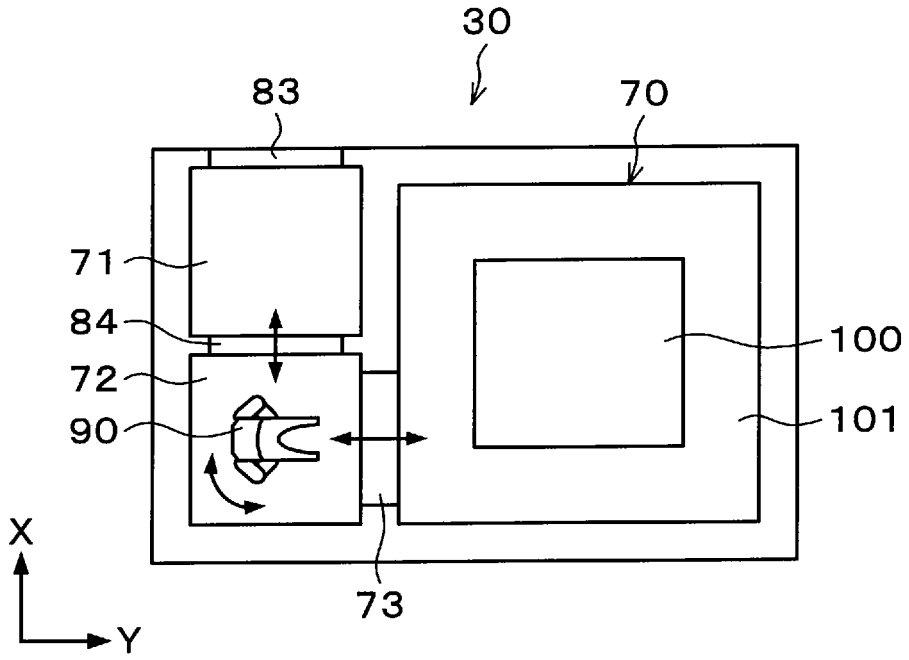
[図2]


1
30
G1
3
61
TRS
TRS
G3
51
50
22
2
C_T
W_T
11
10
Y

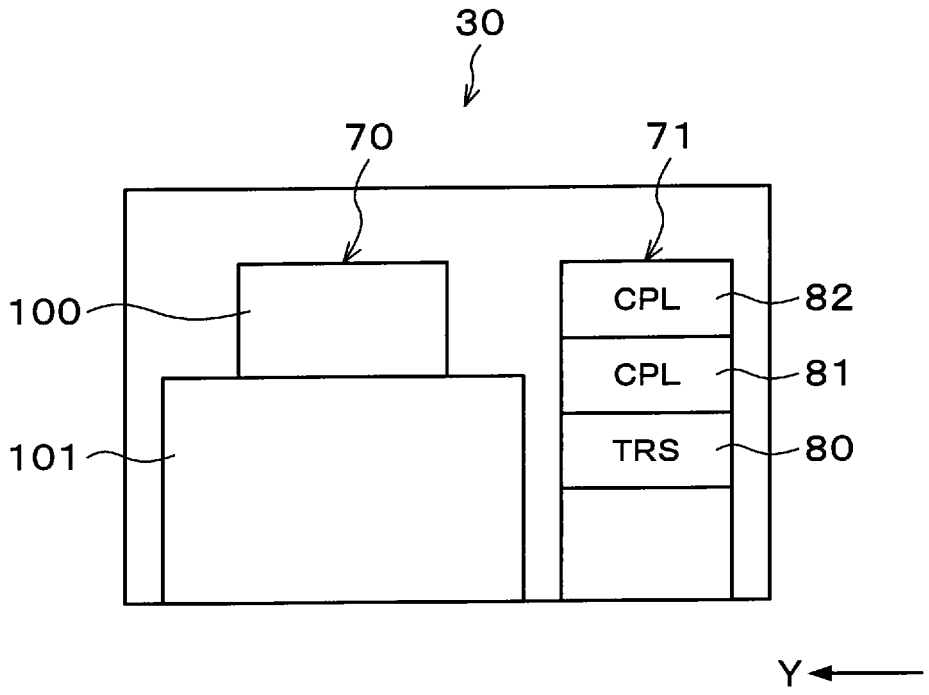
[図3]


W_{U1}
W_{U2}
W_U
W_T
W_L
W_{L1}
W_{L2}

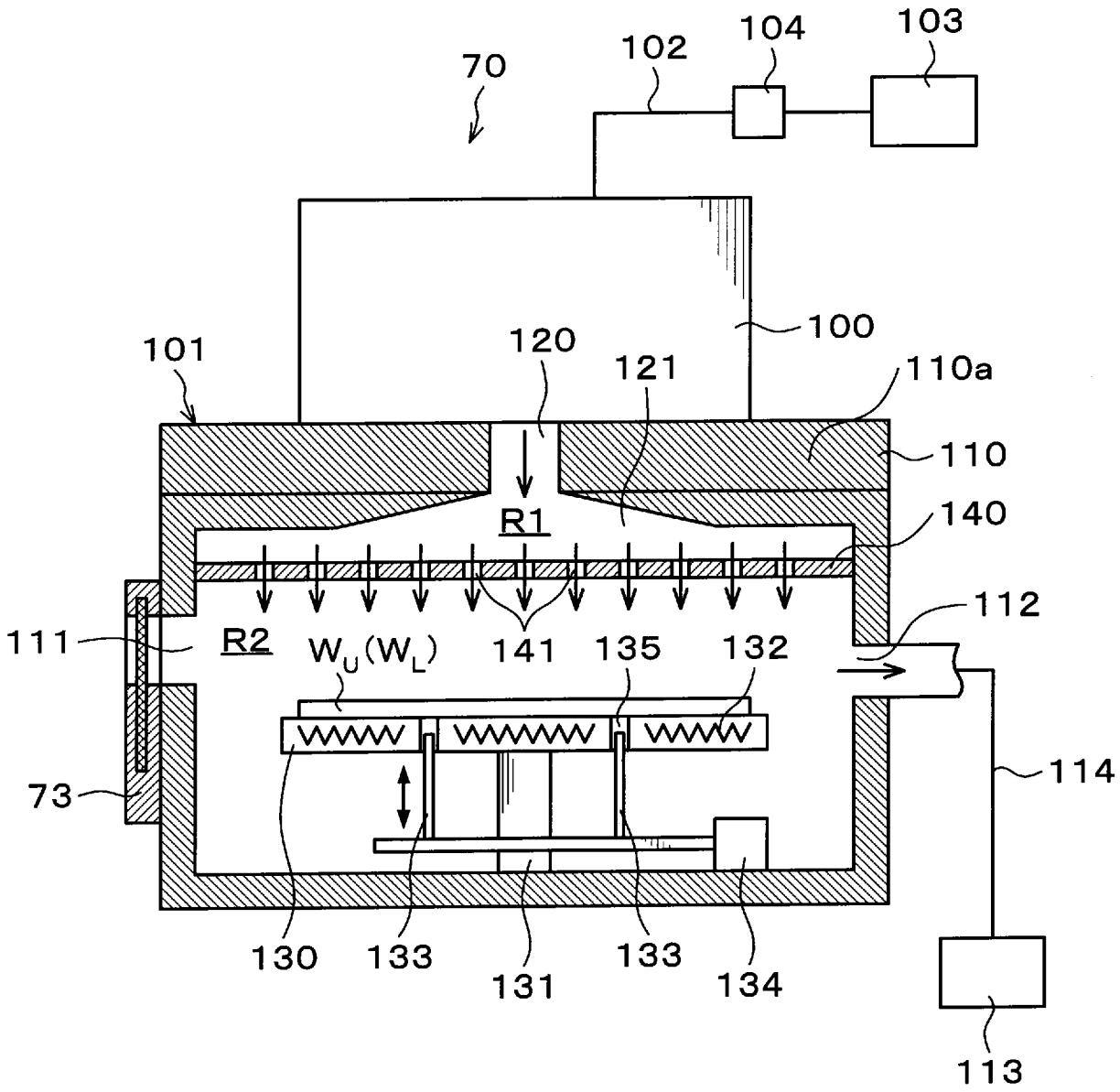
[図4]


30
83
70
71
84
72
90
100
101
73
X
Y

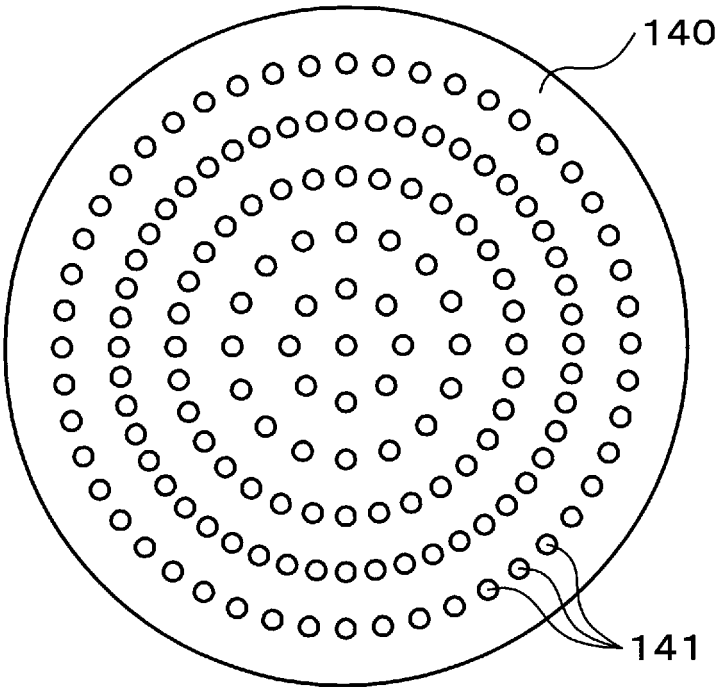
[図5]


30
70
71
100
101
CPL
82
CPL
81
TRS
80
Y

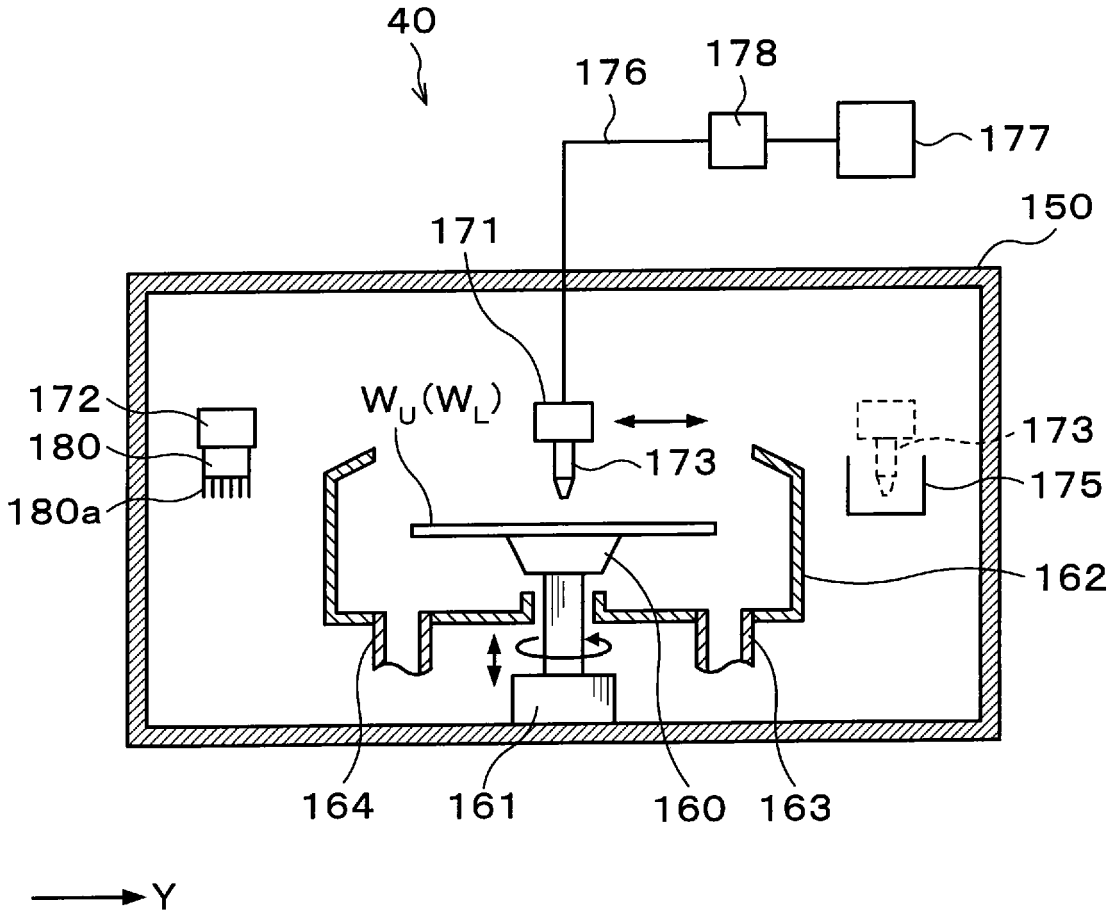
[図6]


70
102
104
103
100
101
120
121
110a
110
R1
140
111
R2
$W_U(W_L)$
141
135
132
112
114
73
130
133
131
133
134
113

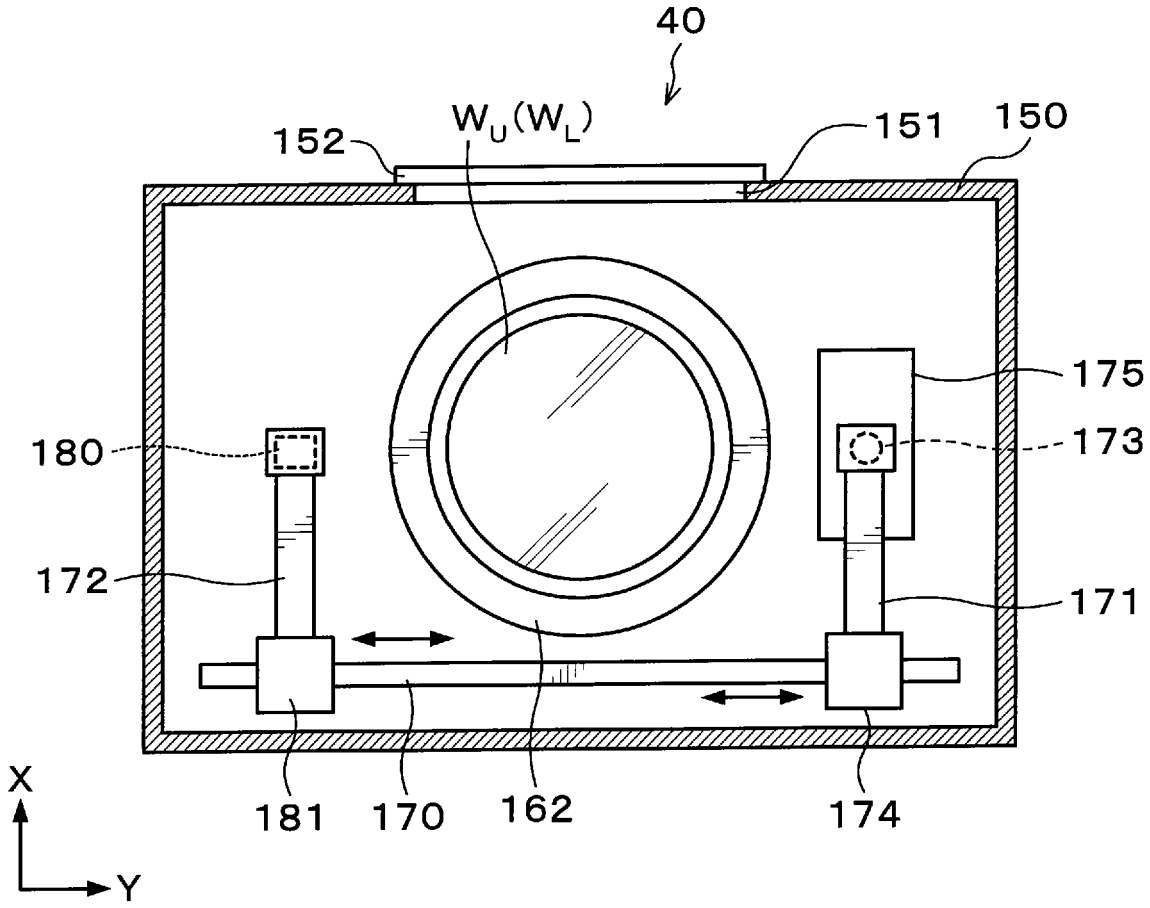
[図7]


140
141

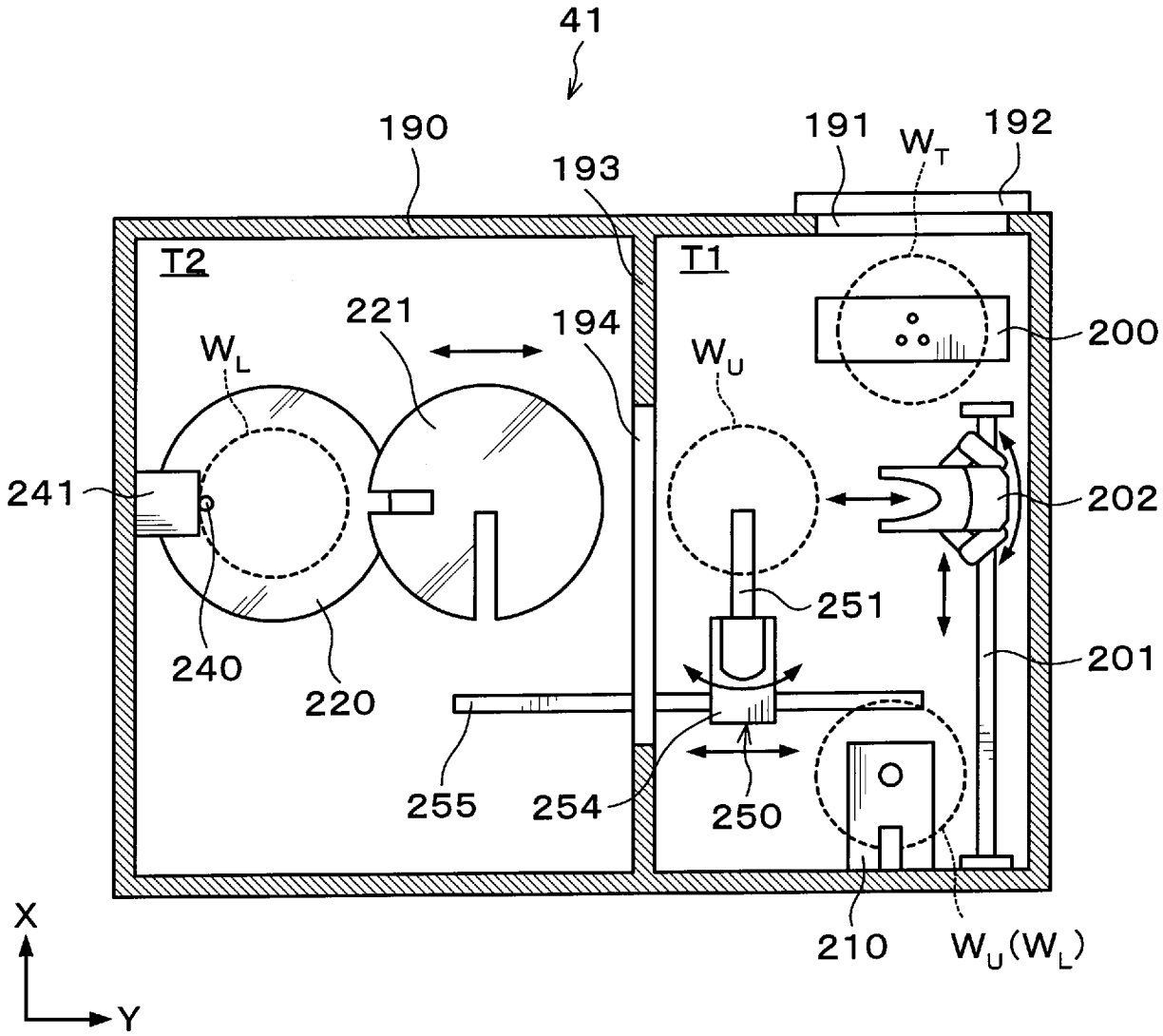
[図8]


40
176
178
177
150
171
172
180
180a
$W_U(W_L)$
173
173
175
162
164
161
160
163
Y

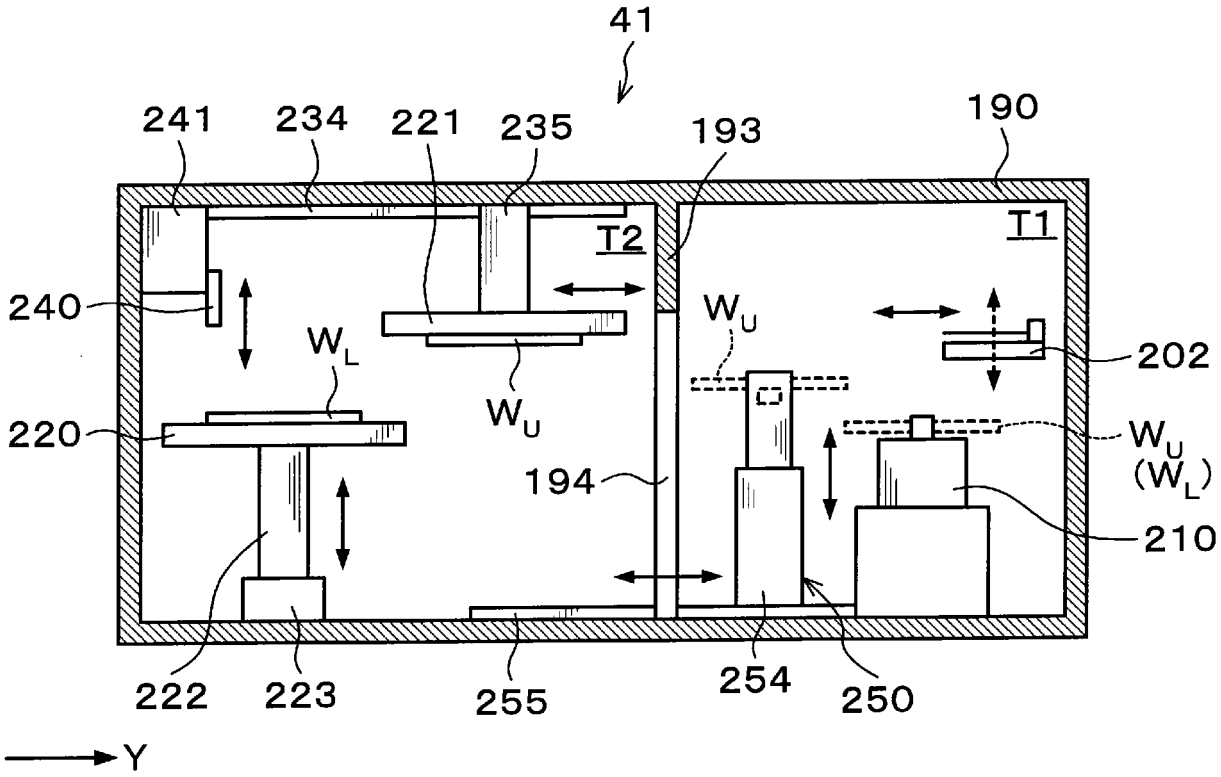
[図9]



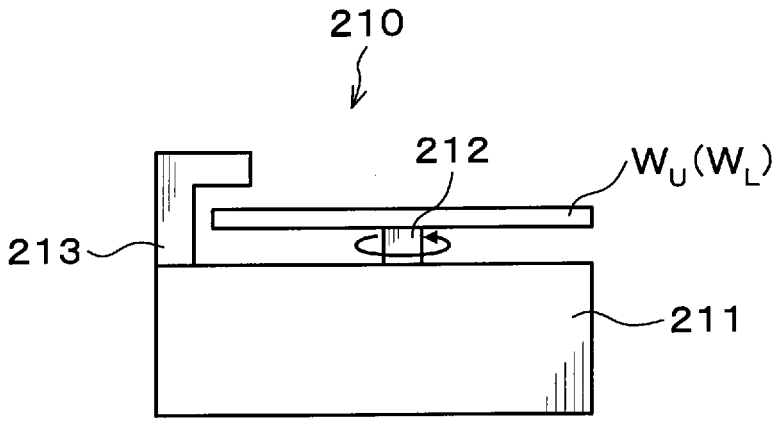
[図10]


41
190
191
W_T
192
193
T2
T1
221
194
200
W_L
W_U
241
202
251
240
220
201
255
254
250
210
$W_U(W_L)$
X
Y

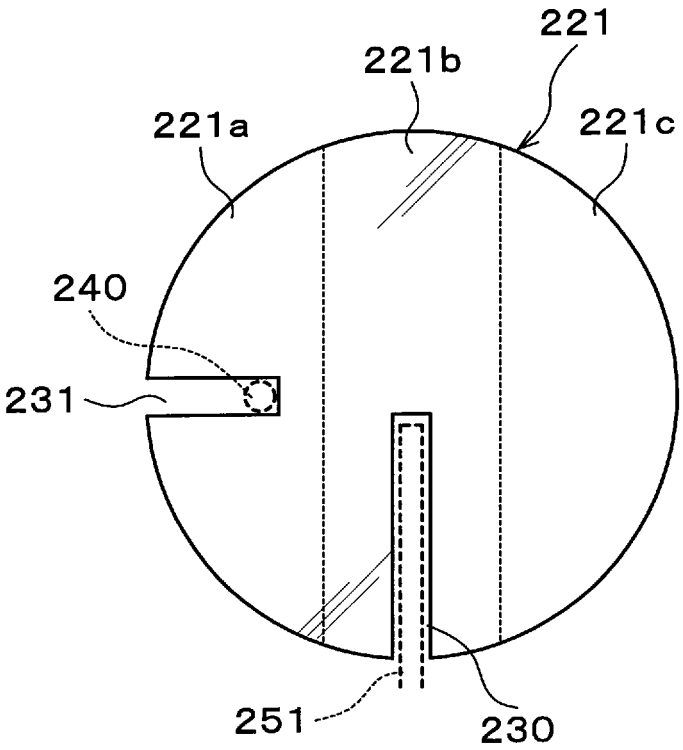
[図11]


41
241
234
221
235
193
190
T2
T1
240
W_L
W_U
W_U
202
220
W_U
(W_L)
194
210
222
223
255
254
250
Y

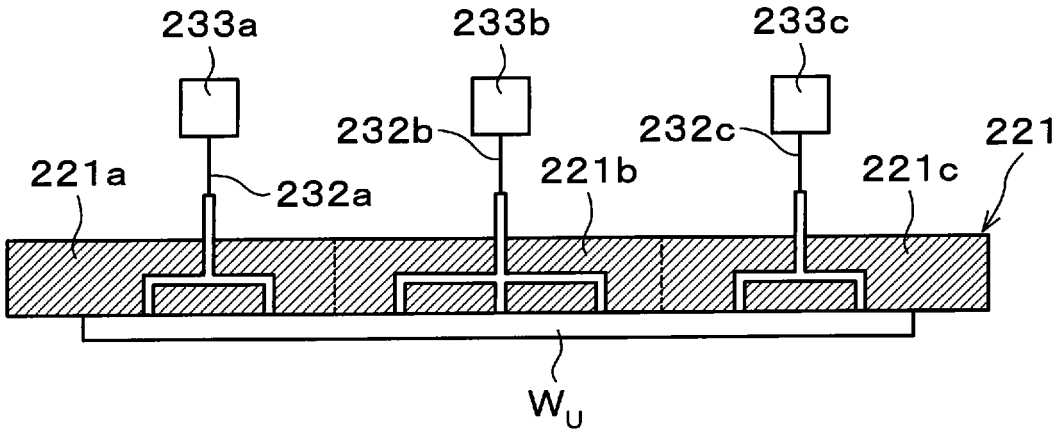
[図12]


210
212
W_U(W_L)
213
211

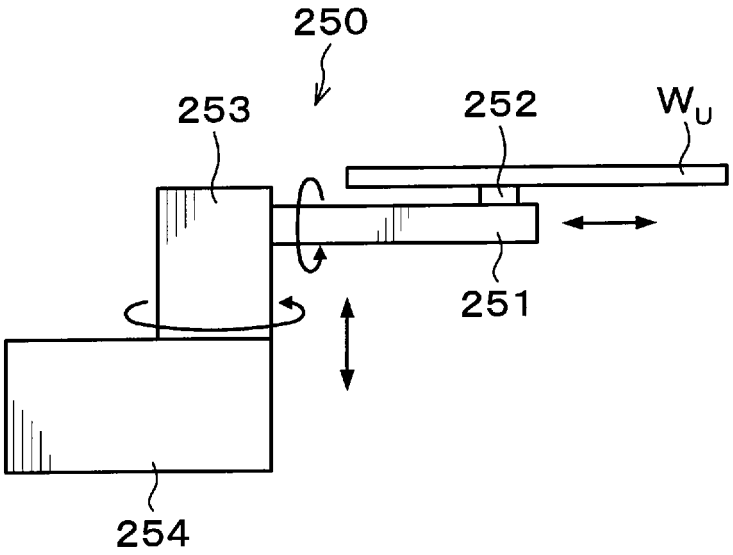
[図13]


221
221b
221a
221c
240
231
251
230

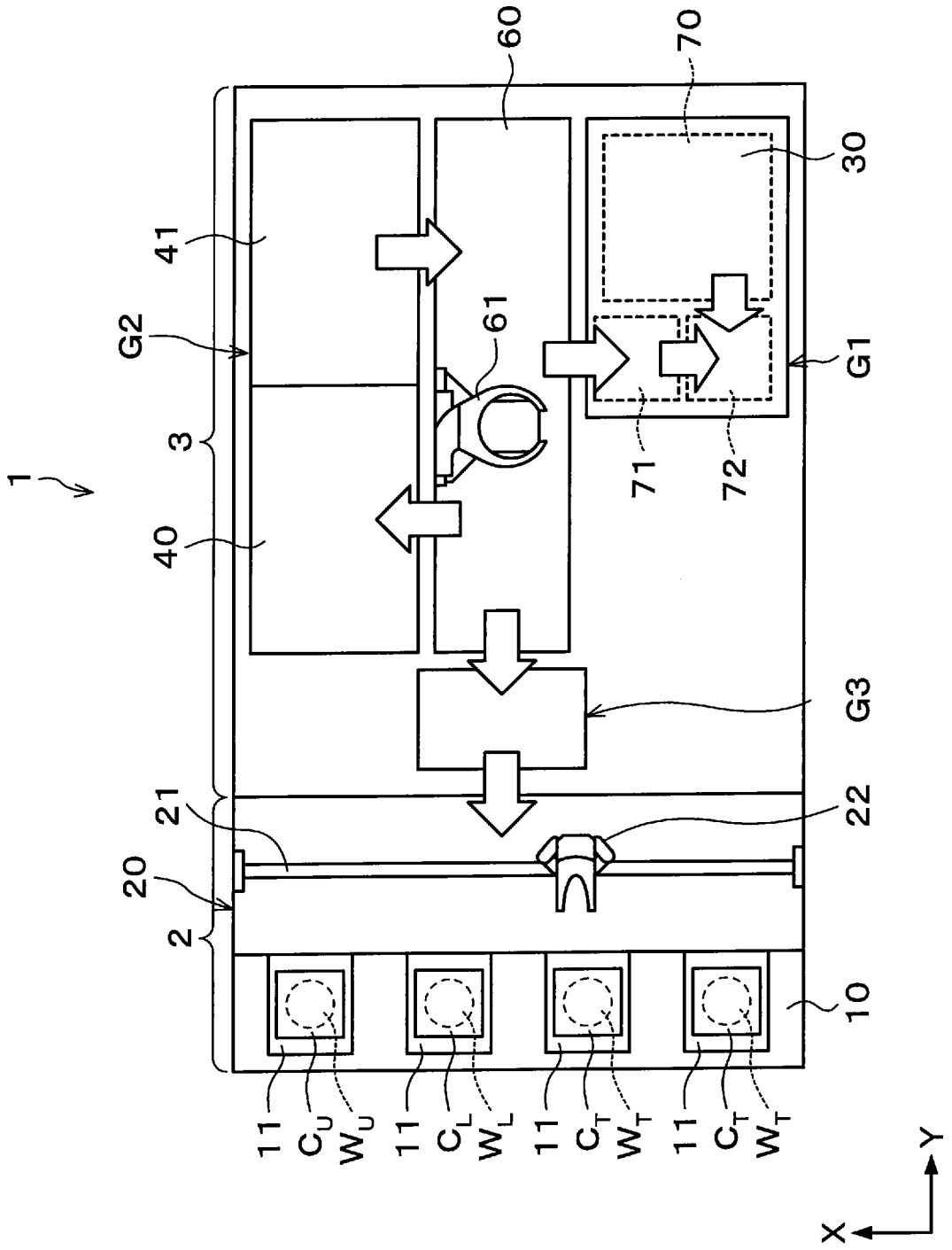
[図14]


233a
233b
233c
232b
232c
221
221a
232a
221b
221c
W_U

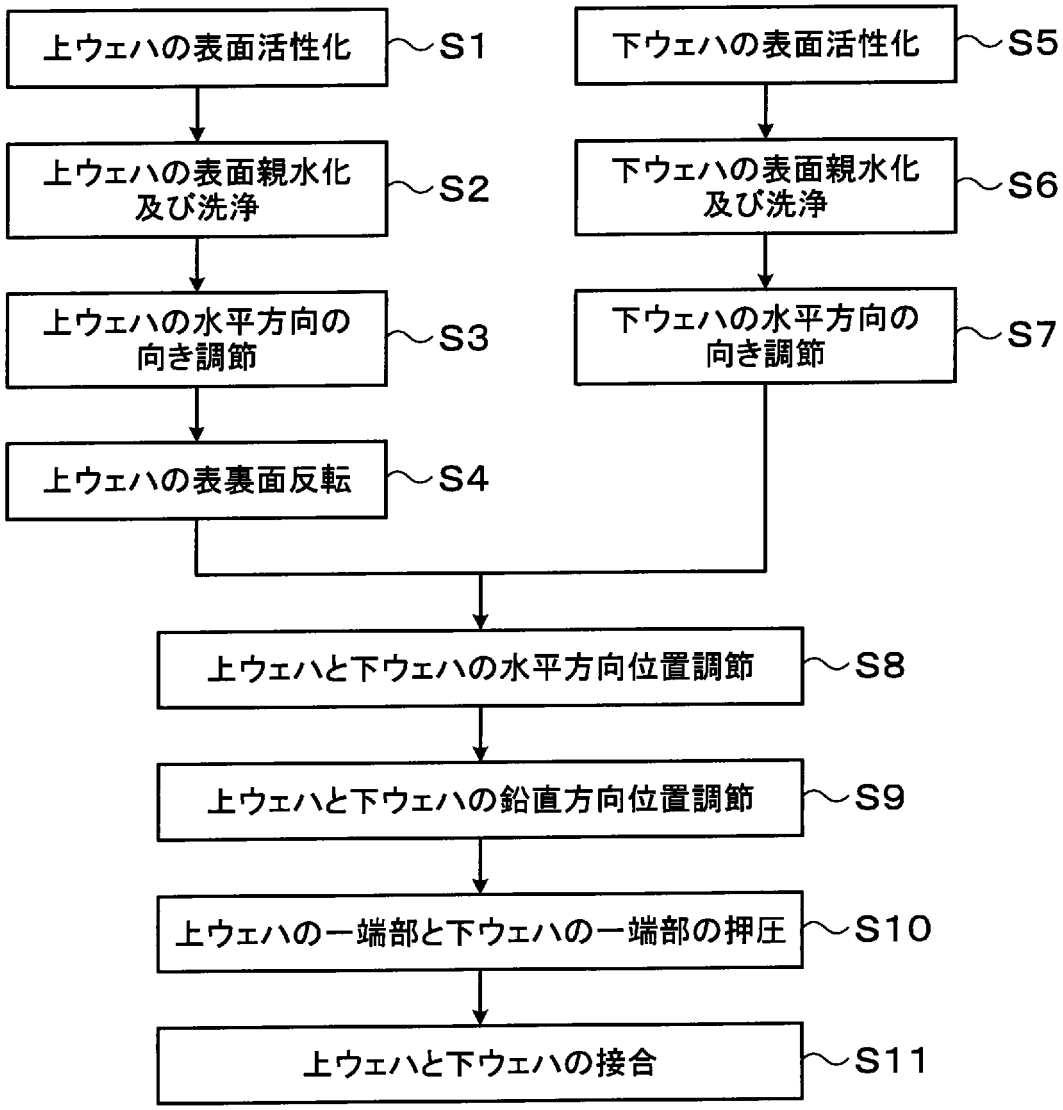
[図15]



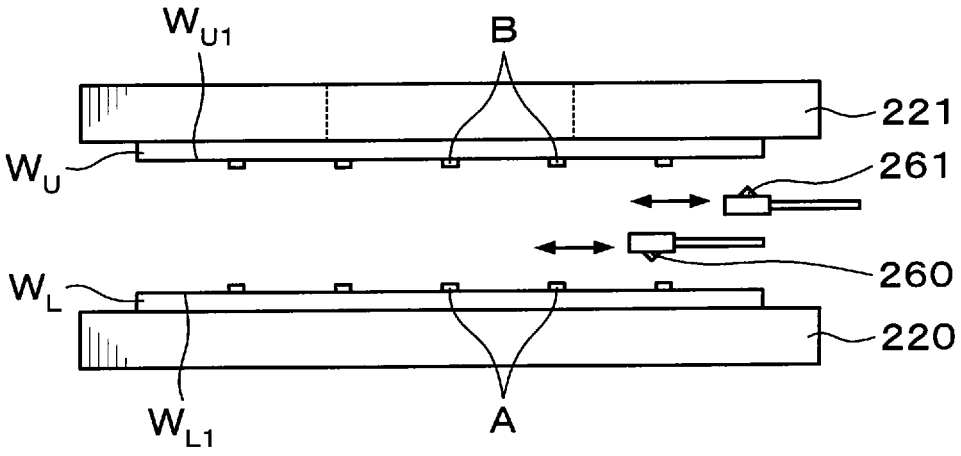
[図16]


60
70
30
41
G2
61
G1
3
1
71
72
40
G3
21
22
20
2
10
11
C_U
W_U
11
C_L
W_L
11
C_T
W_T
11
C_T
W_T
Y
X

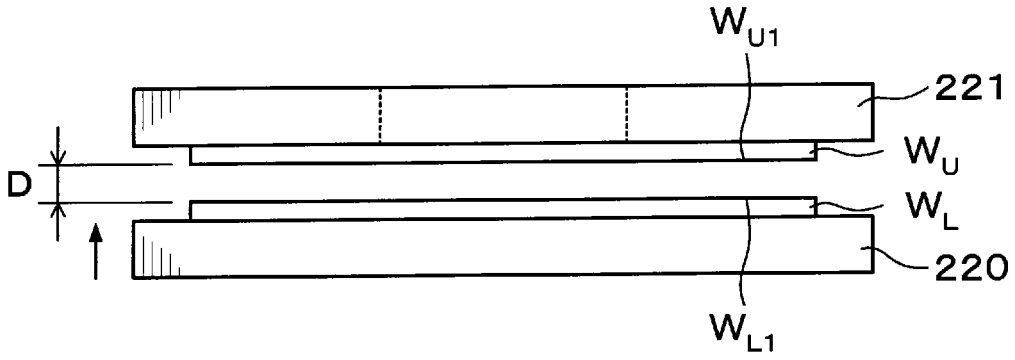
[図17]


上ウェハの表面活性化
S1
上ウェハの表面親水化及び洗浄
S2
上ウェハの水平方向の向き調節
S3
上ウェハの表裏面反転
S4
下ウェハの表面活性化
S5
下ウェハの表面親水化及び洗浄
S6
下ウェハの水平方向の向き調節
S7
上ウェハと下ウェハの水平方向位置調節
S8
上ウェハと下ウェハの鉛直方向位置調節
S9
上ウェハの一端部と下ウェハの一端部の押圧
S10
上ウェハと下ウェハの接合
S11

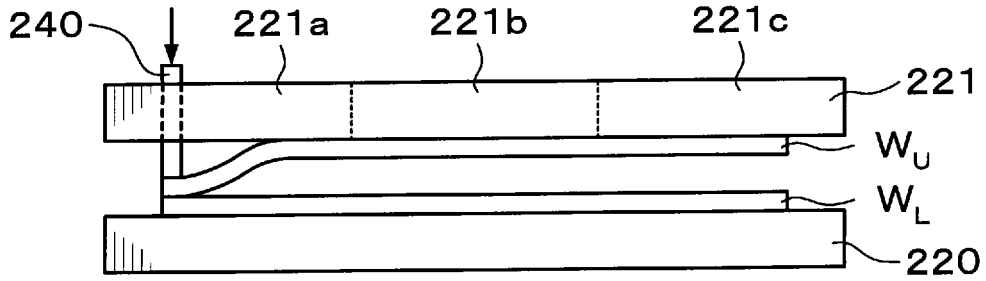
[図18]


W_{U1}
B
221
W_U
261
260
W_L
220
W_{L1}
A

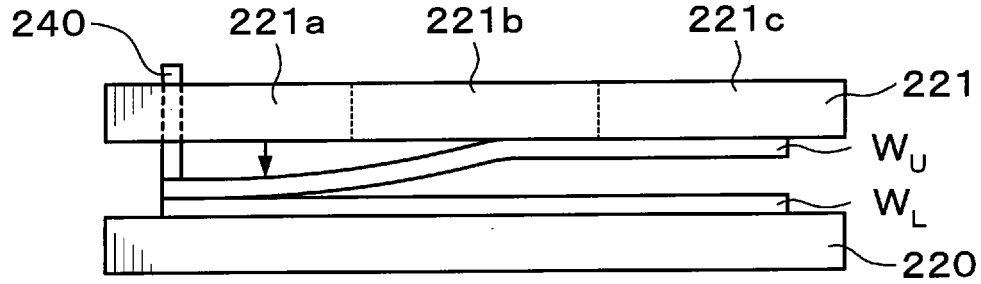
[図19]



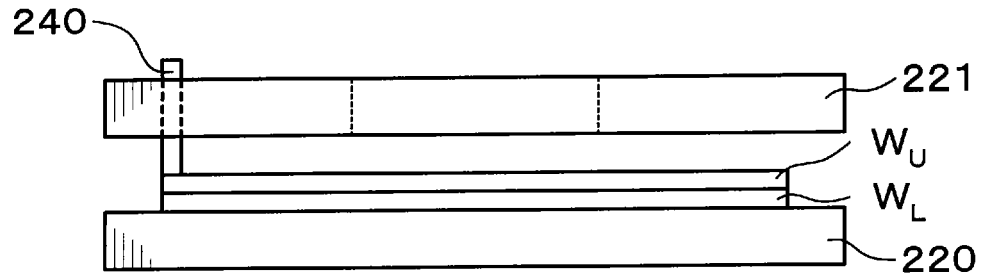
[図20]



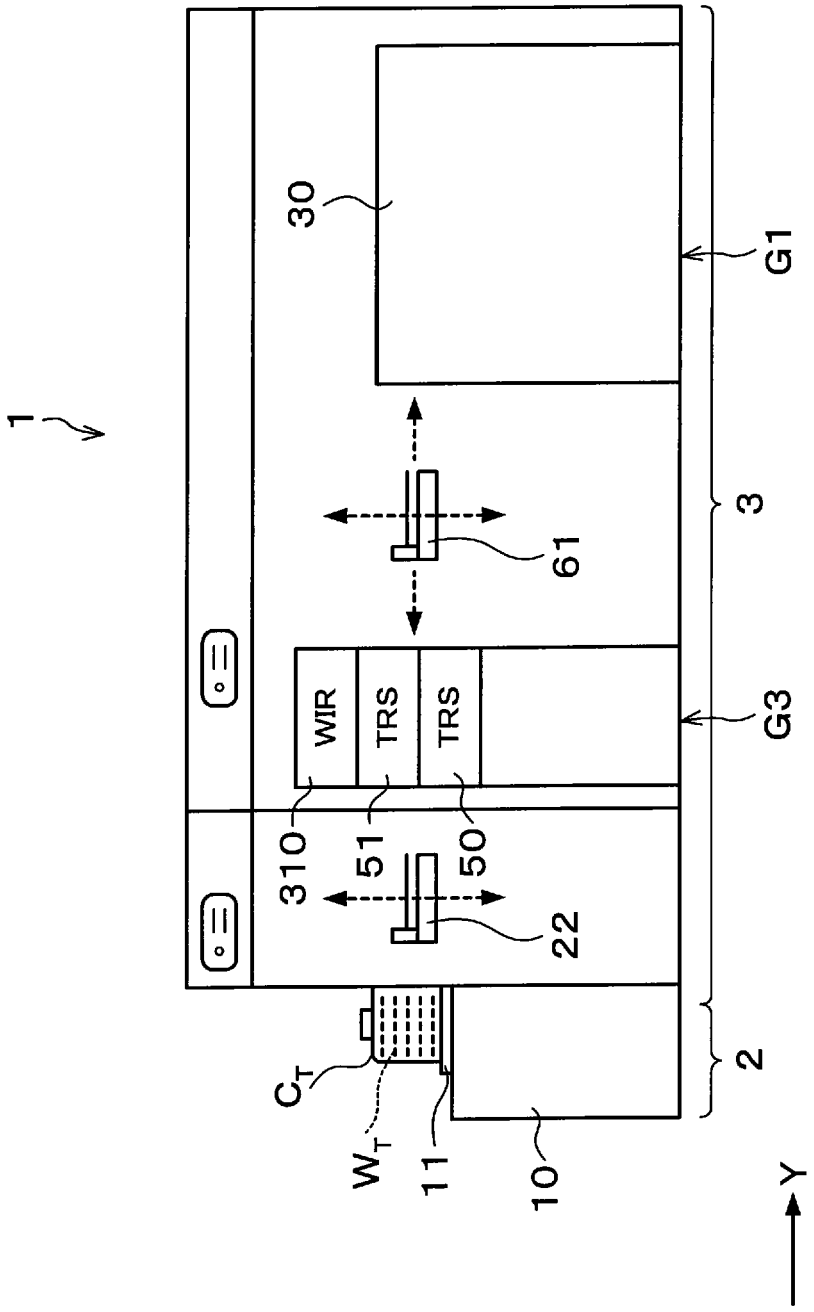
[図21]



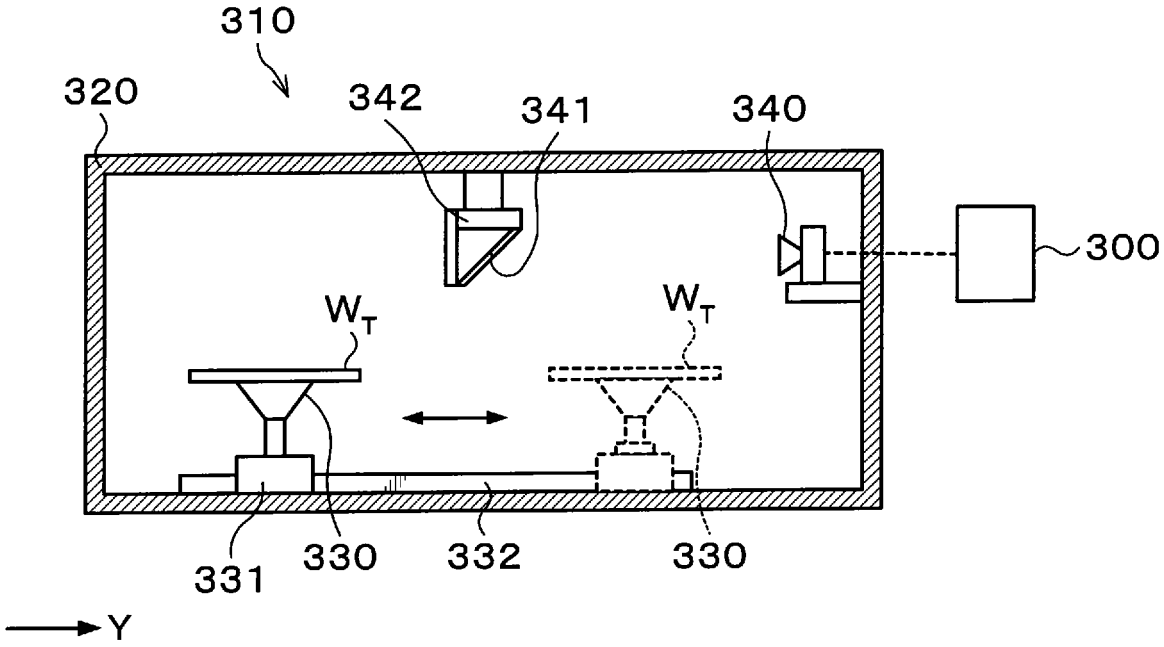
[図22]



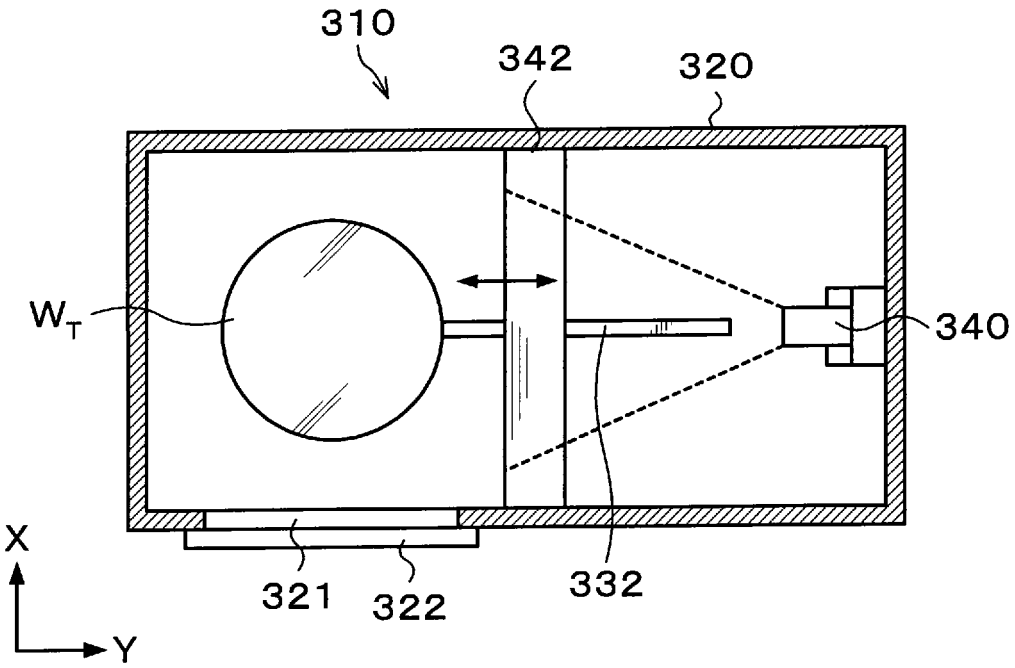
[図23]



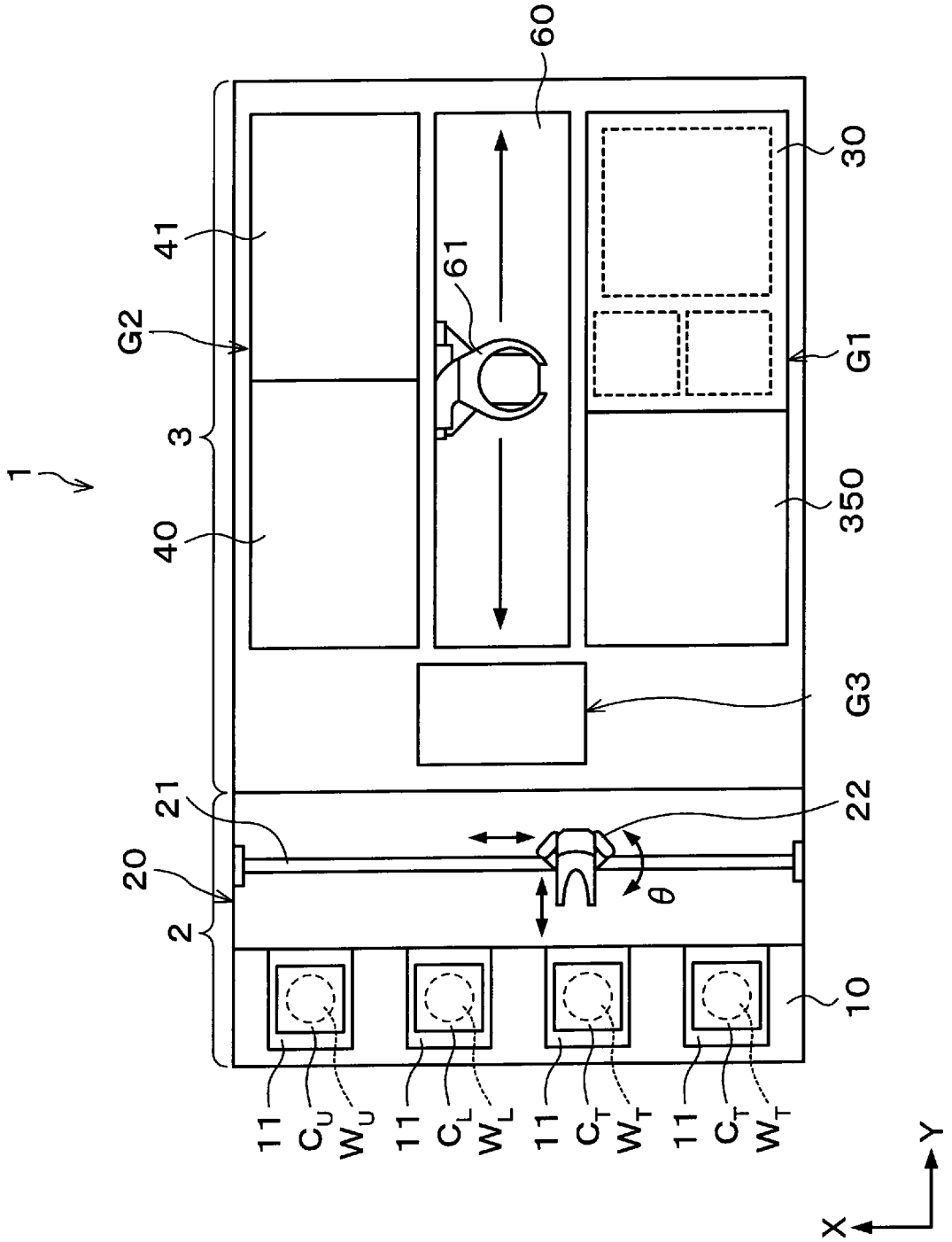
[図24]


310
320
342
341
340
300
W_T
W_T
331
330
332
330
Y

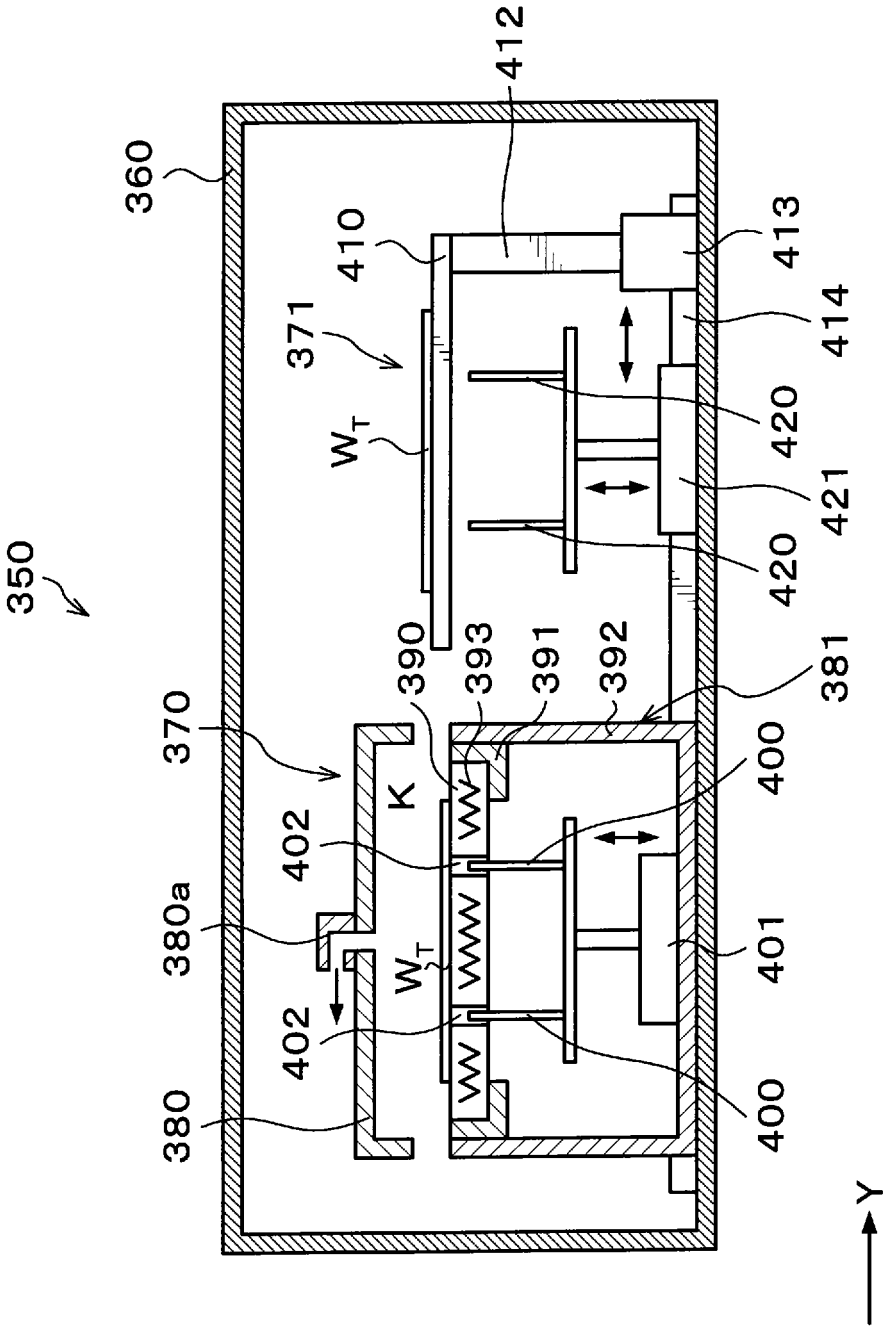
[図25]


310
342
320
W_T
340
X
321
322
332
Y

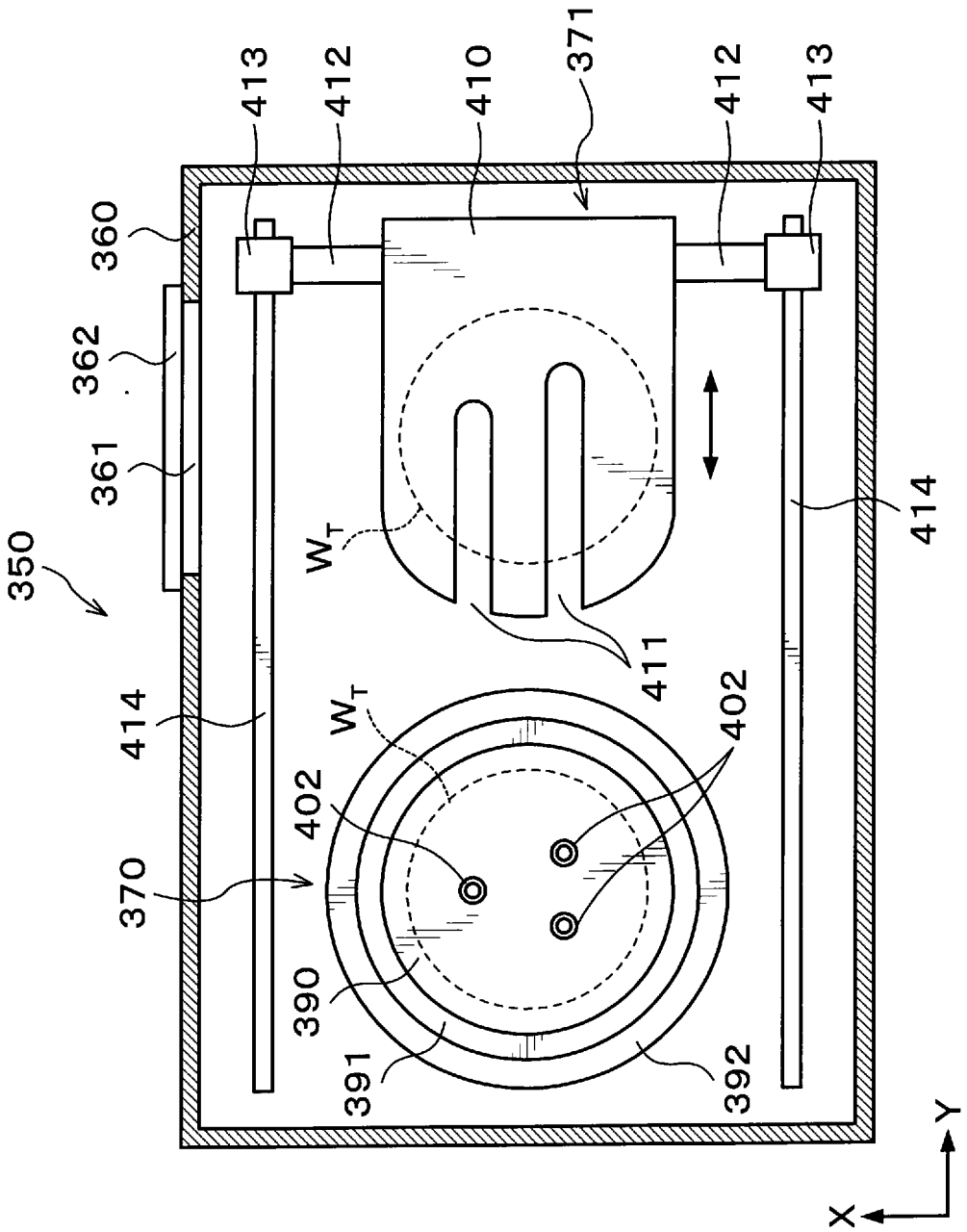
[図26]


60
30
41
61
G2
G1
3
1
350
40
G3
21
22
20
θ
2
10
11
C_U
W_U
11
C_L
W_L
11
C_T
W_T
11
C_T
W_T
Y
X

[図27]


412
360
410
413
414
371
420
421
420
350
390
393
391
392
381
370
400
K
402
380a
401
402
400
380
Y

[図28]


413
412
410
371
412
413
360
362
361
350
414
W_T
411
414
W_T
402
402
370
390
391
392
Y
X