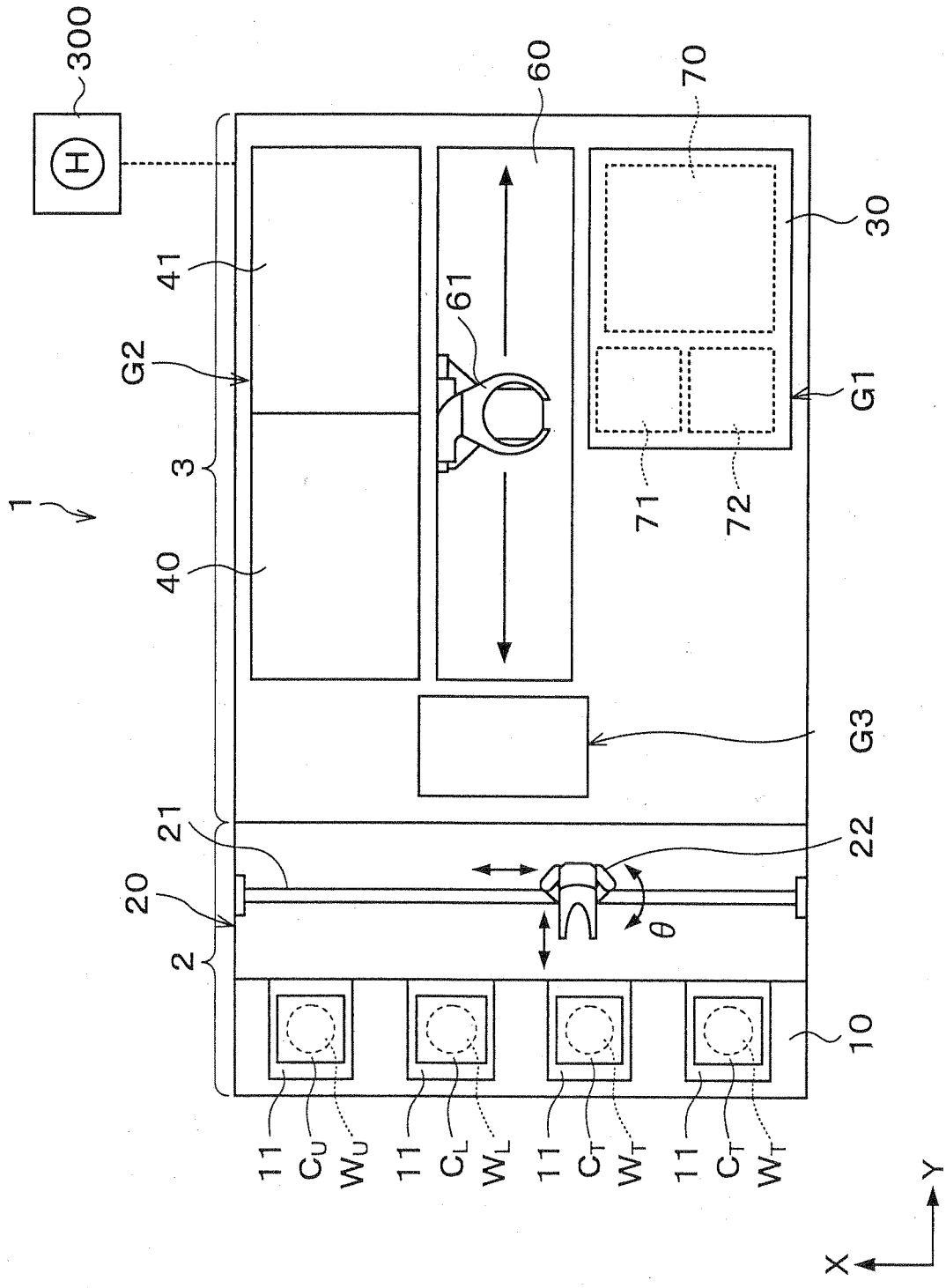

300
H
60
70
30
41
61
G2
G1
3
1
71
72
40
G3
21
22
20
θ
2
10
11
C_U
W_U
11
C_L
W_L
11
C_T
W_T
11
C_T
W_T
Y
X

FIG.1

FIG.2

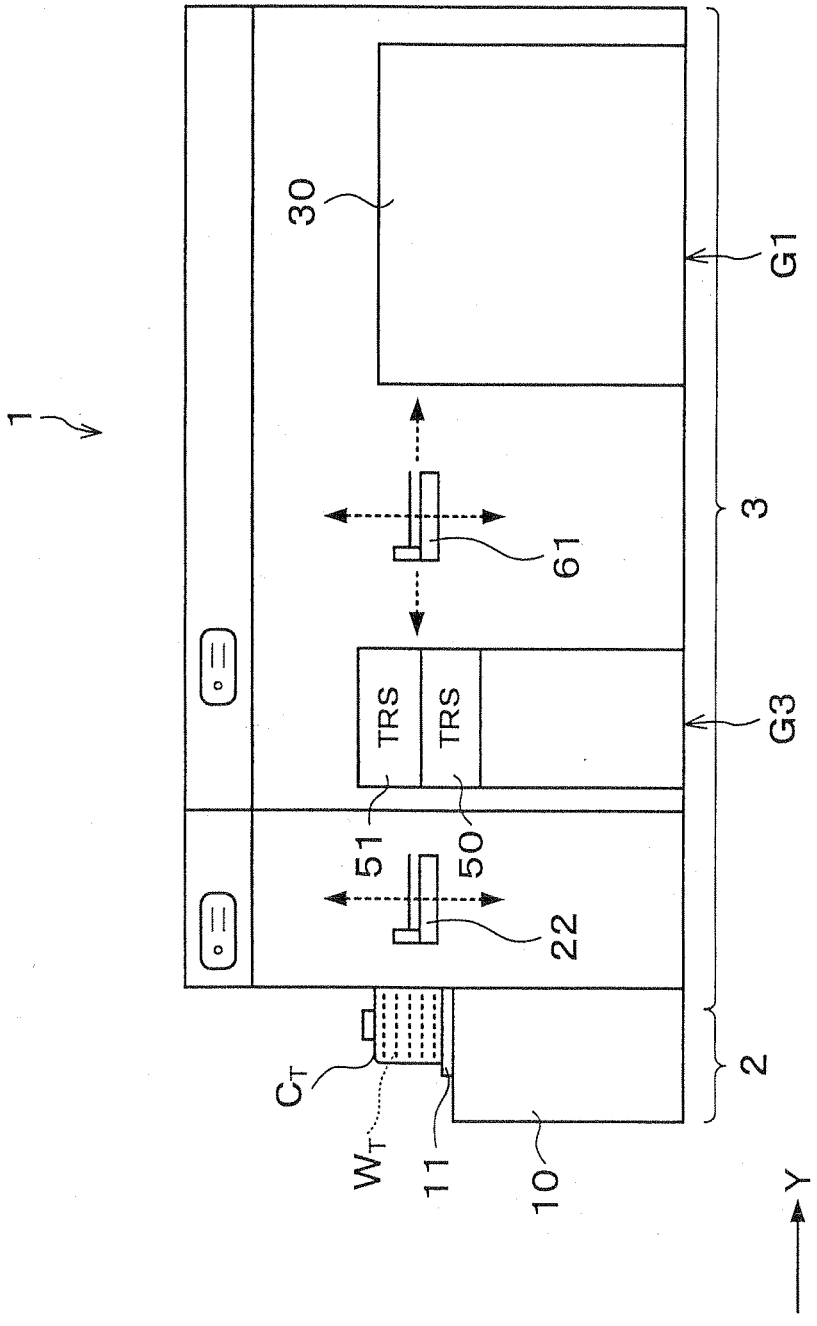


FIG.3

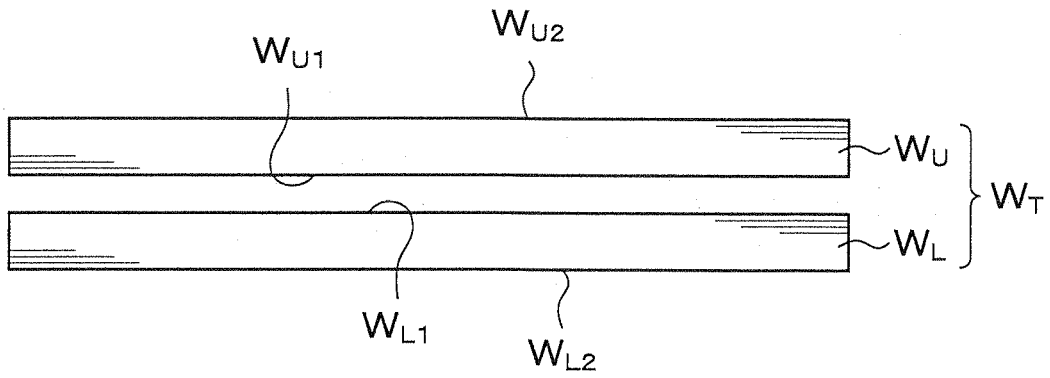


FIG.4

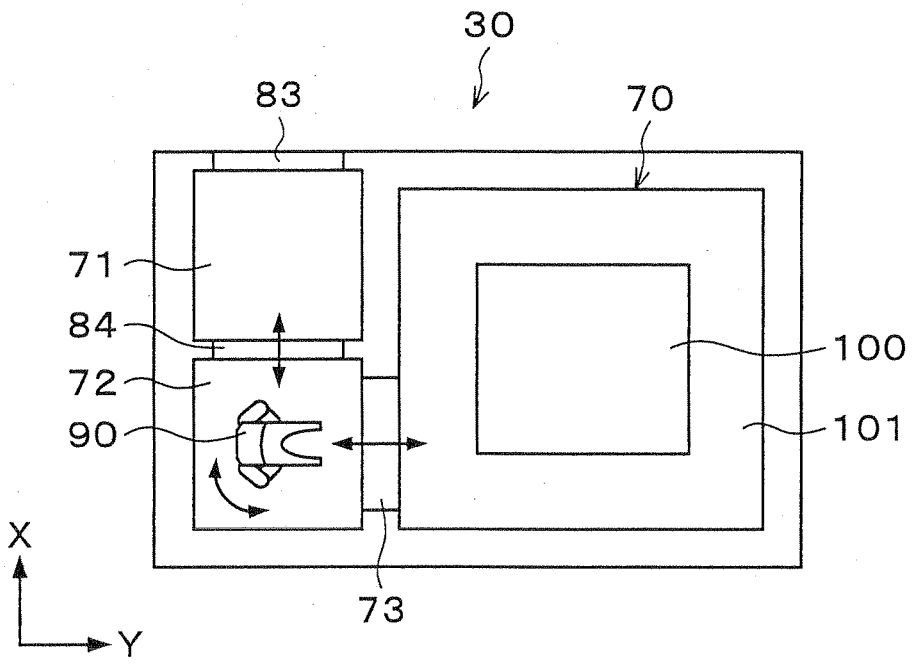

30
83
70
71
84
72
90
100
101
73
X
Y

FIG.5

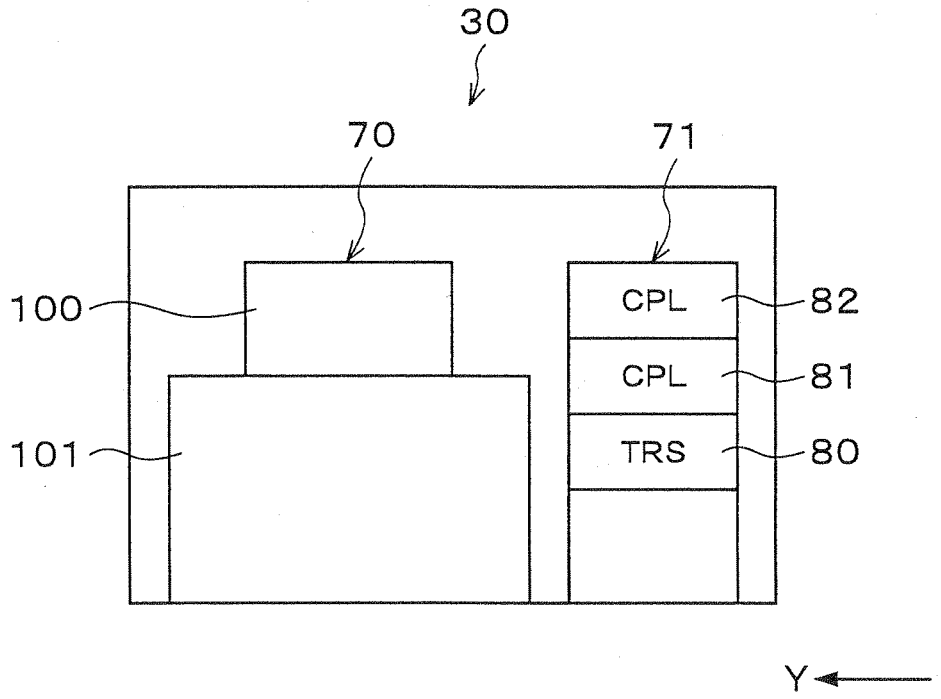

30
70
71
100
101
CPL
82
CPL
81
TRS
80
Y

FIG.6

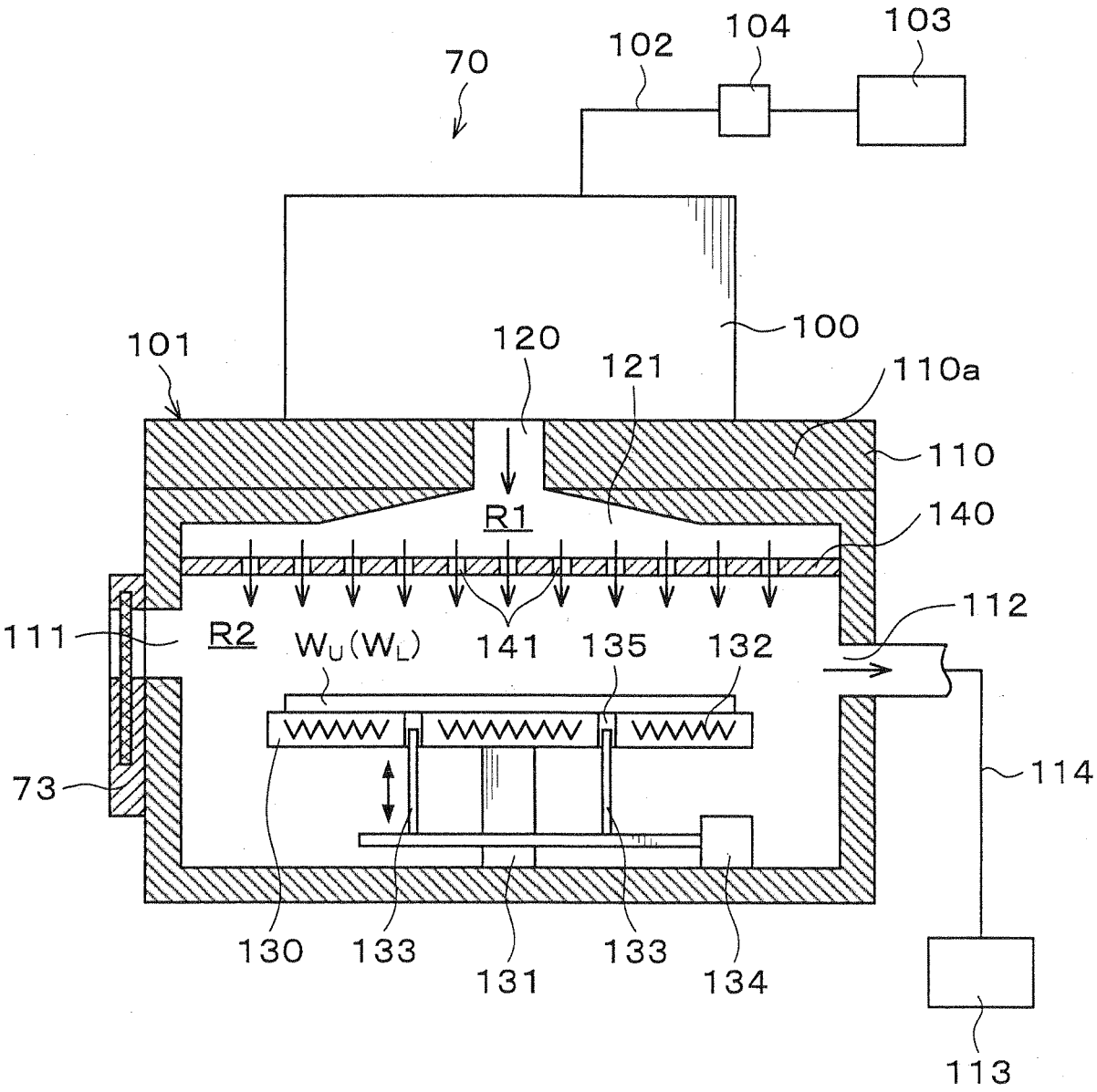

70
102
104
103
101
120
121
100
110a
110
R1
140
111
R2
$W_U(W_L)$
141
135
132
112
114
73
130
133
131
133
134
113

FIG.7

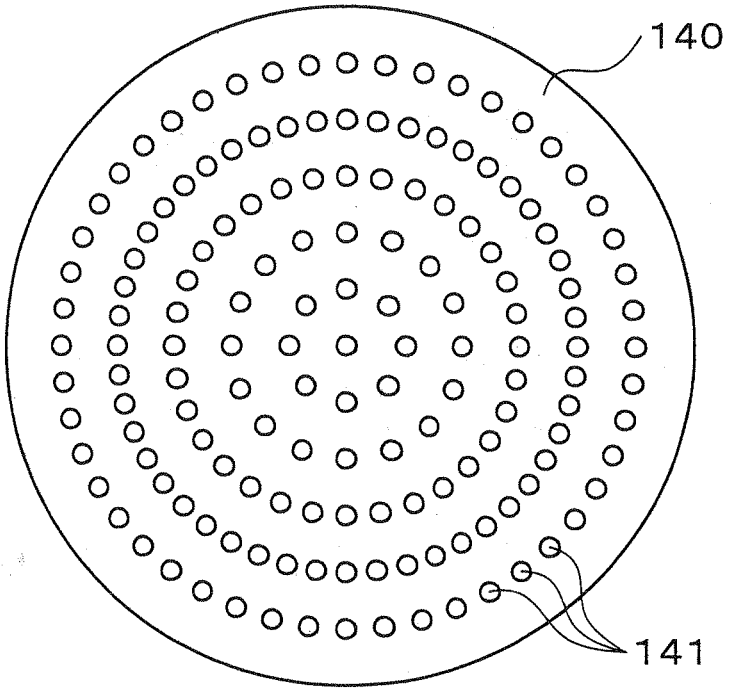

140
141

FIG.8

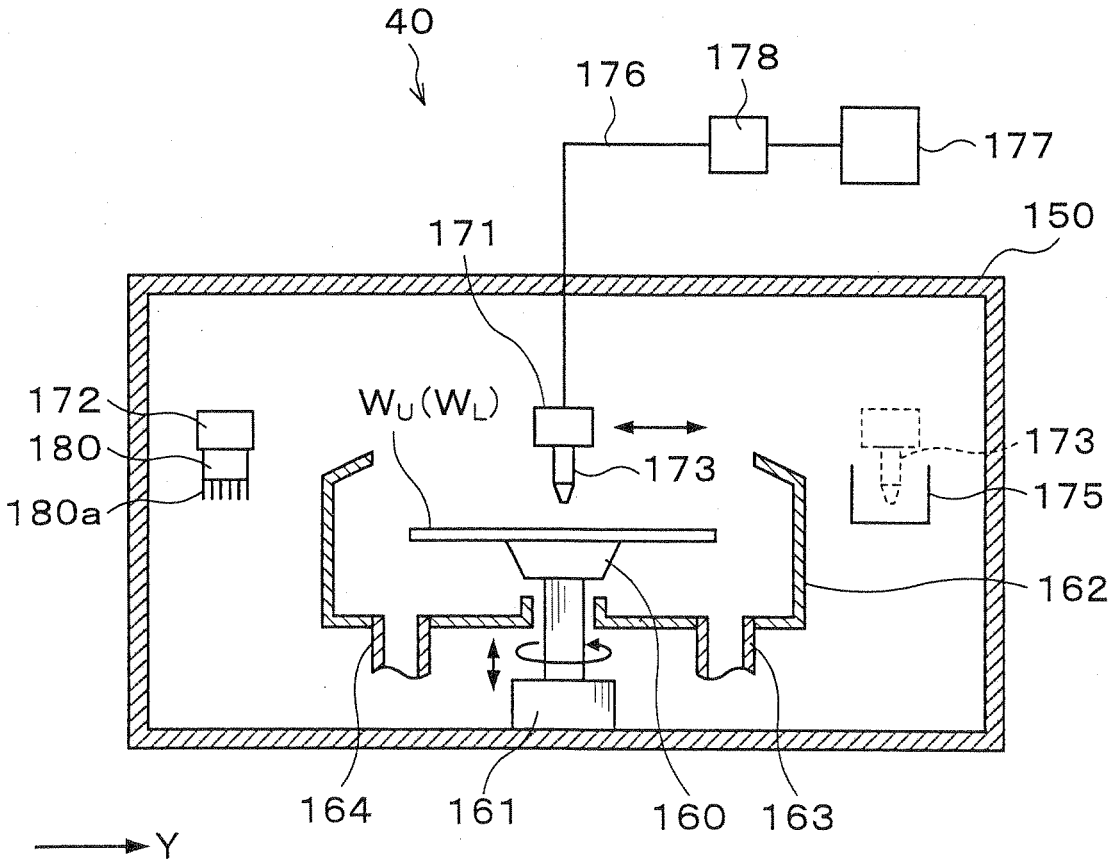

40
176
178
177
150
171
172
180
180a
$W_U(W_L)$
173
173
175
162
164
161
160
163
Y

FIG.9

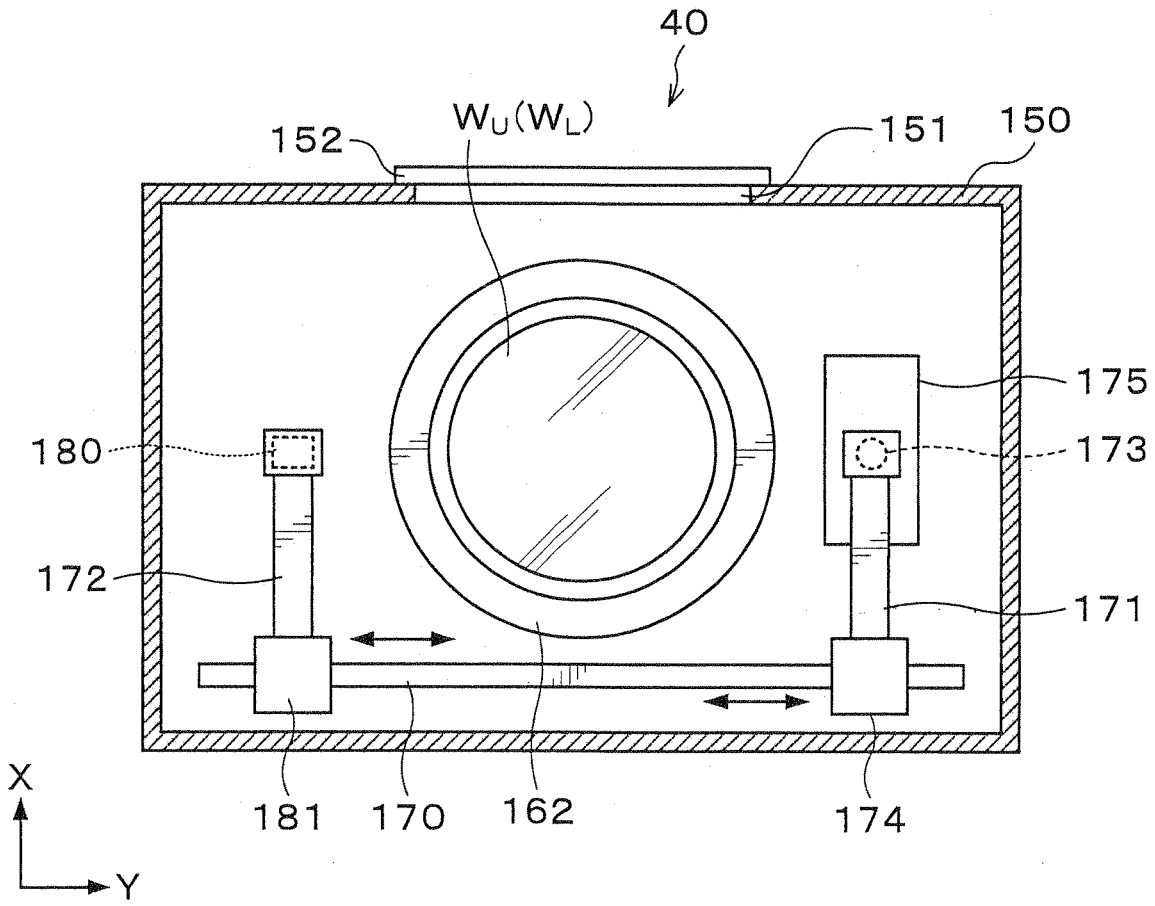


FIG.10

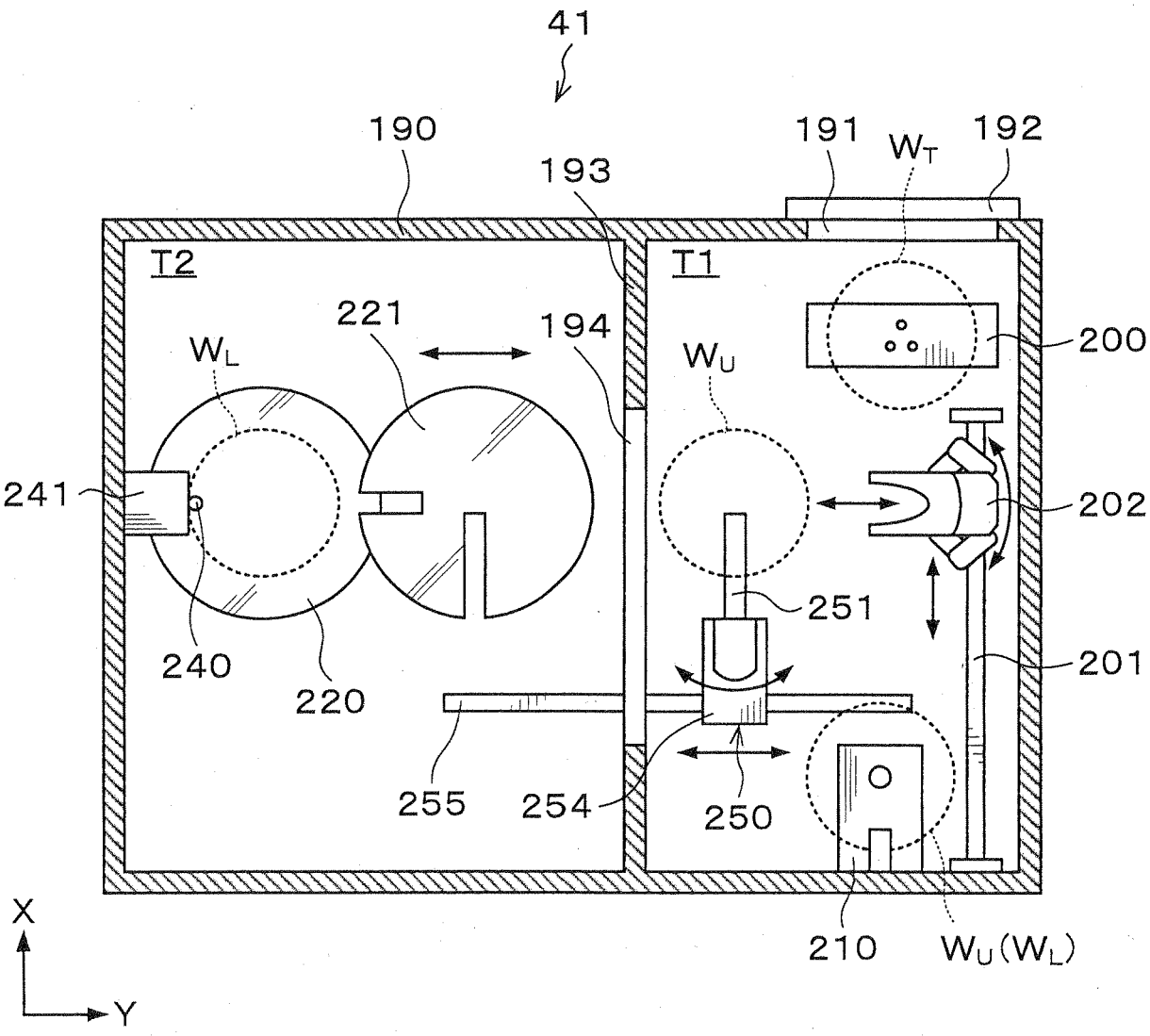

41
190
191
W_T
192
193
T2
T1
221
194
W_L
W_U
200
241
202
251
240
220
201
255
254
250
210
$W_U(W_L)$
X
Y

FIG.11

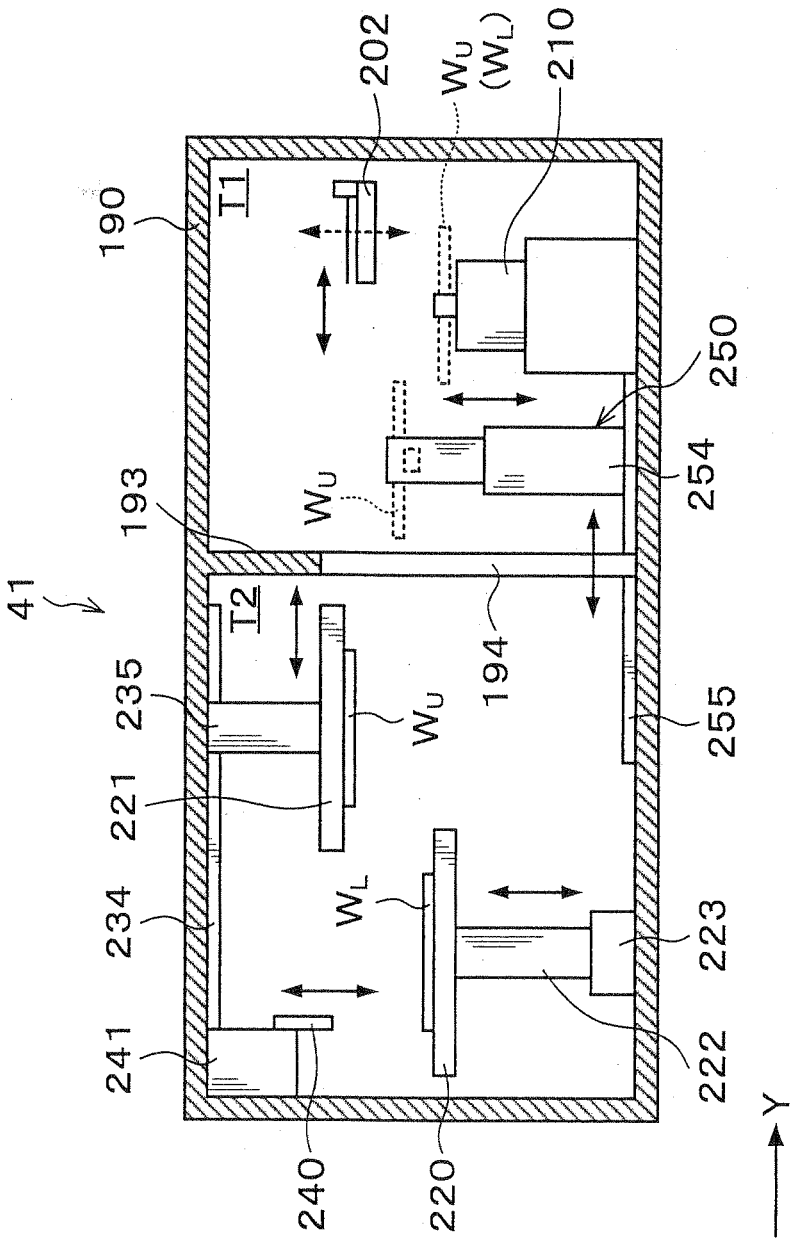

41
190
193
194
202
210
250
254
255
235
221
234
241
223
222
240
220
T1
T2
W_U
W_L
W_U (W_L)
Y

FIG.12

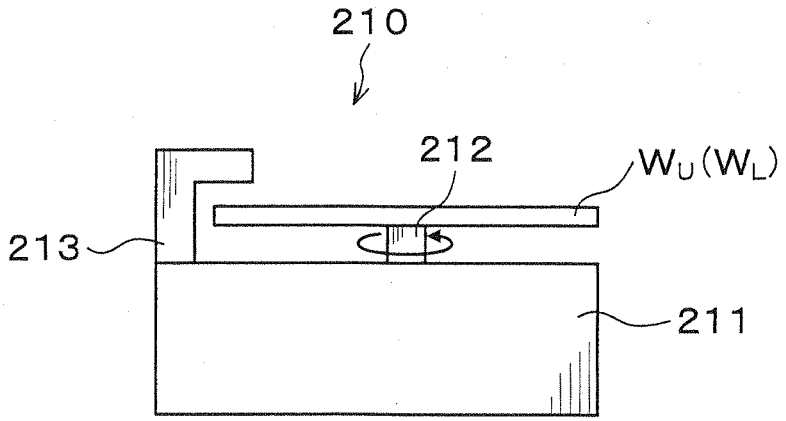


FIG.13

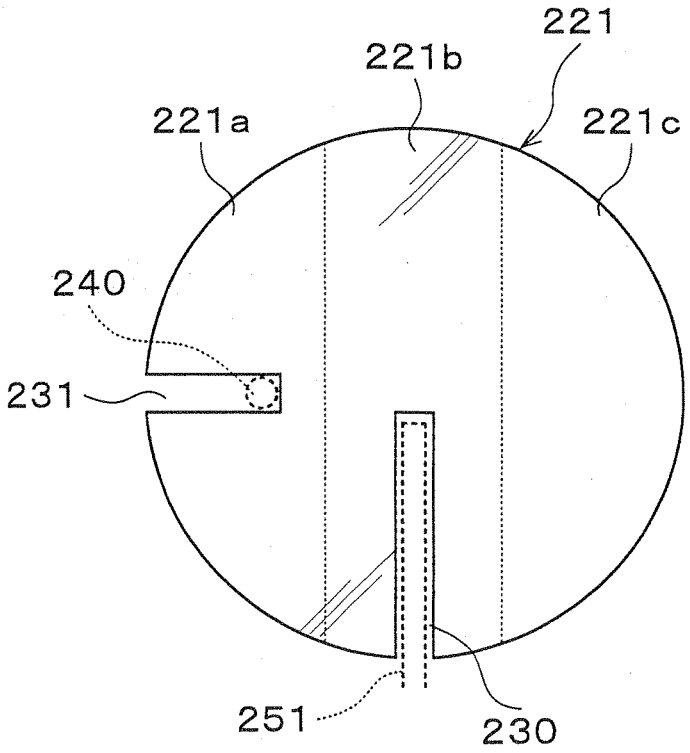


FIG.14

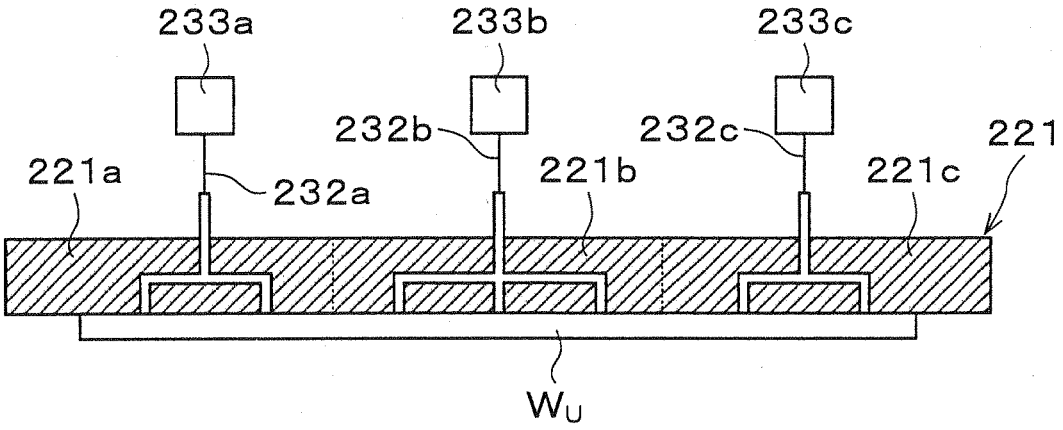
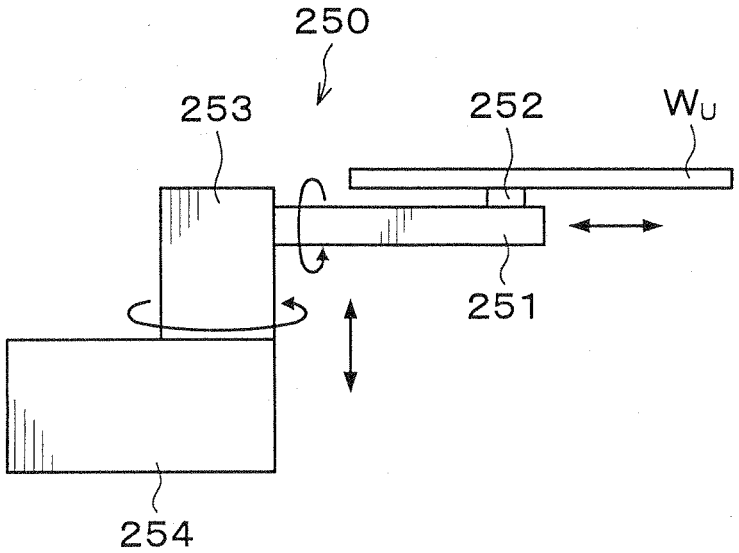

233a
233b
233c
232b
232c
221
221a
232a
221b
221c
W_U

FIG.15


250
253
252
W_U
251
254

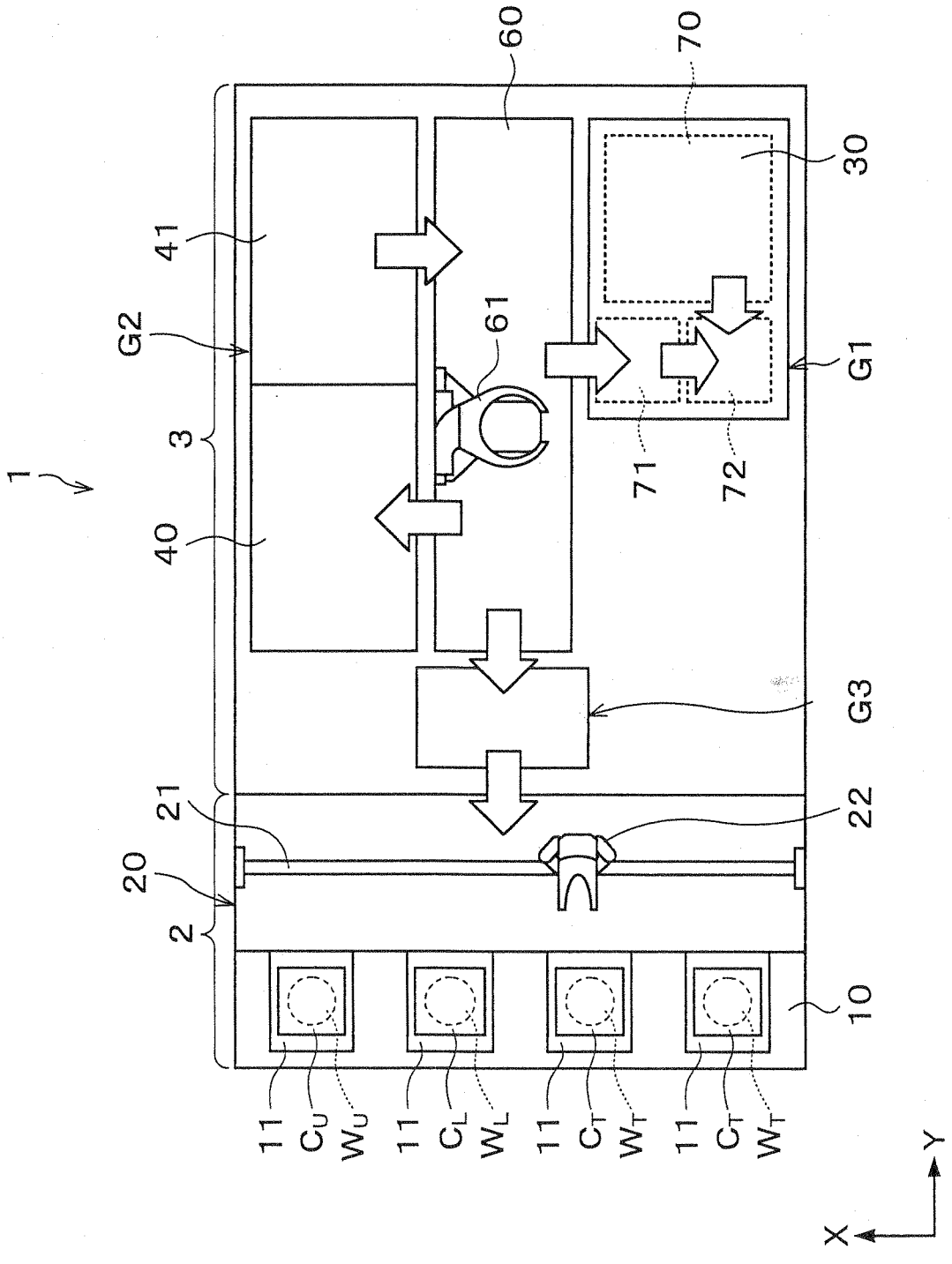

1
2
3
10
11
20
21
22
30
40
41
60
61
70
71
72
G1
G2
G3
C_U
W_U
C_L
W_L
C_T
W_T
C_T
W_T
X
Y

FIG.16

FIG.17

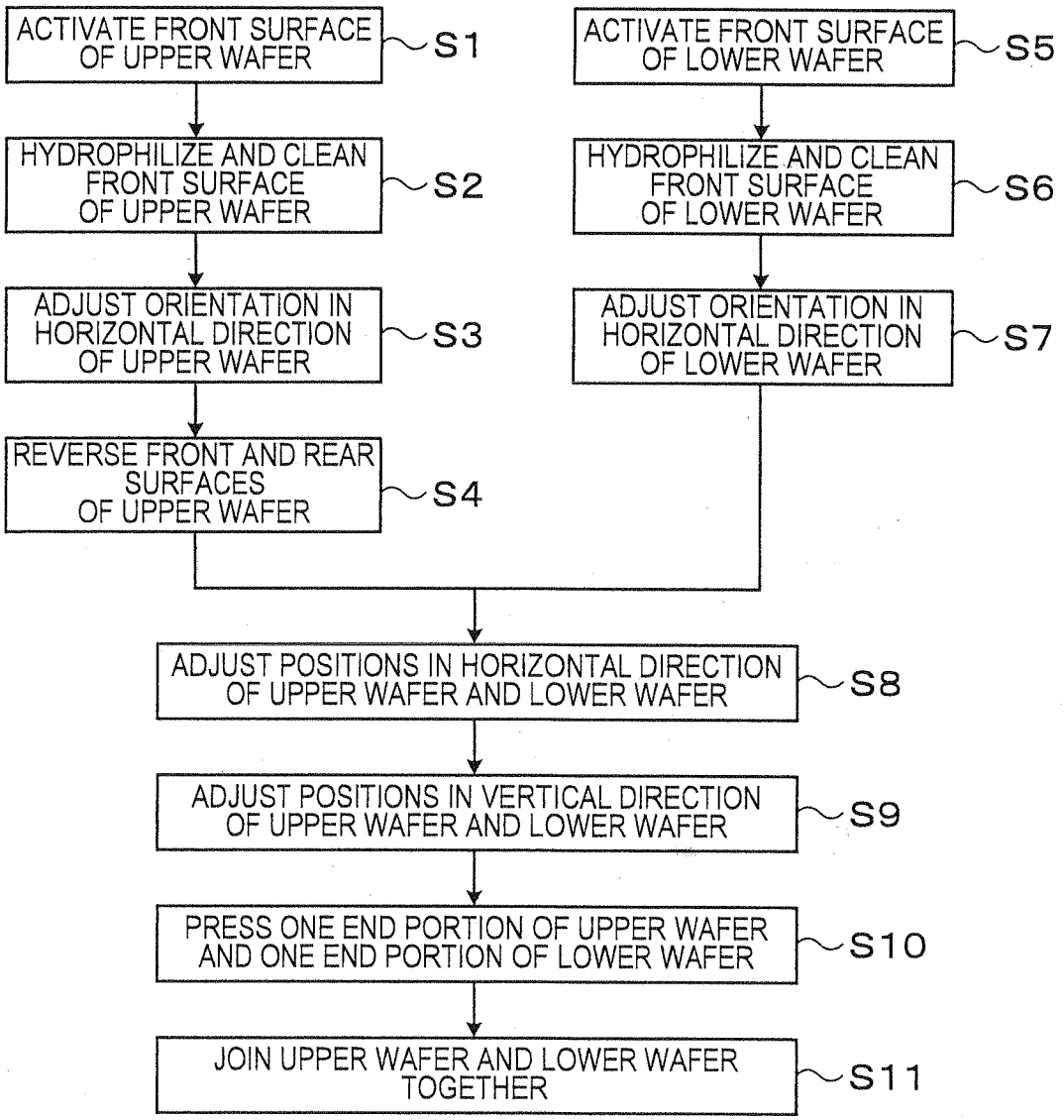

ACTIVATE FRONT SURFACE OF UPPER WAFER
S1
HYDROPHILIZE AND CLEAN FRONT SURFACE OF UPPER WAFER
S2
ADJUST ORIENTATION IN HORIZONTAL DIRECTION OF UPPER WAFER
S3
REVERSE FRONT AND REAR SURFACES OF UPPER WAFER
S4
ACTIVATE FRONT SURFACE OF LOWER WAFER
S5
HYDROPHILIZE AND CLEAN FRONT SURFACE OF LOWER WAFER
S6
ADJUST ORIENTATION IN HORIZONTAL DIRECTION OF LOWER WAFER
S7
ADJUST POSITIONS IN HORIZONTAL DIRECTION OF UPPER WAFER AND LOWER WAFER
S8
ADJUST POSITIONS IN VERTICAL DIRECTION OF UPPER WAFER AND LOWER WAFER
S9
PRESS ONE END PORTION OF UPPER WAFER AND ONE END PORTION OF LOWER WAFER
S10
JOIN UPPER WAFER AND LOWER WAFER TOGETHER
S11

FIG.18

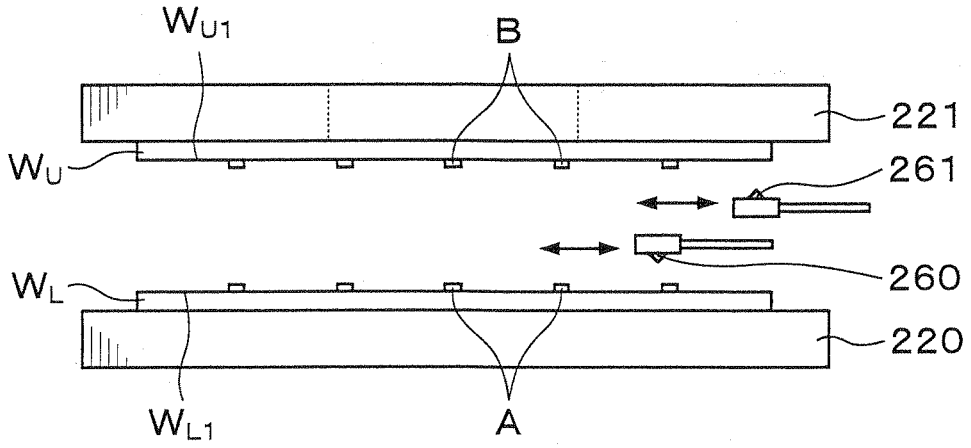


FIG.19

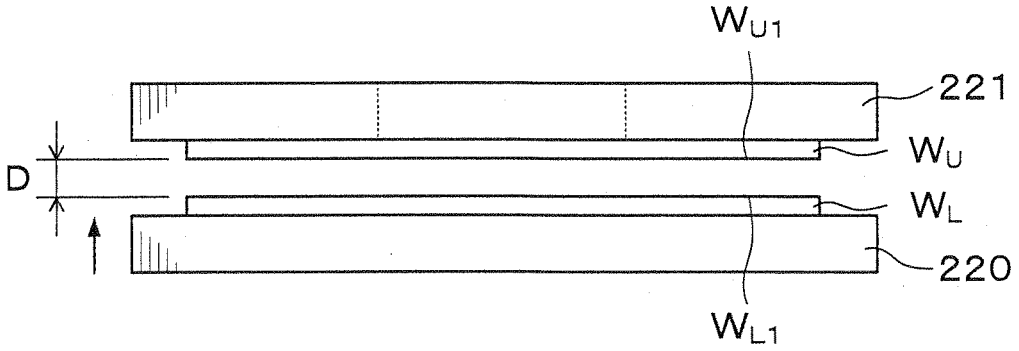


FIG.20

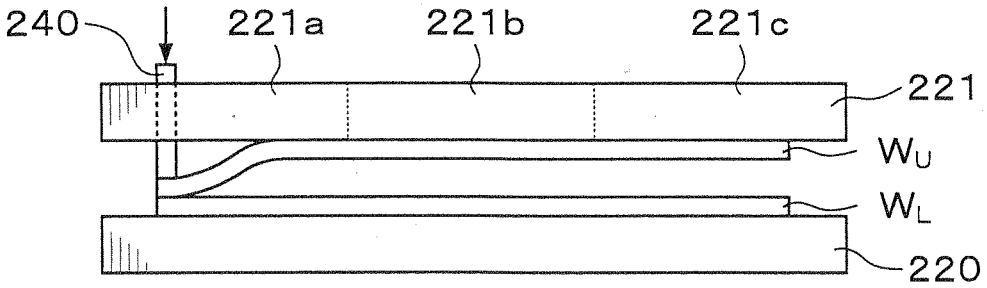


FIG.21

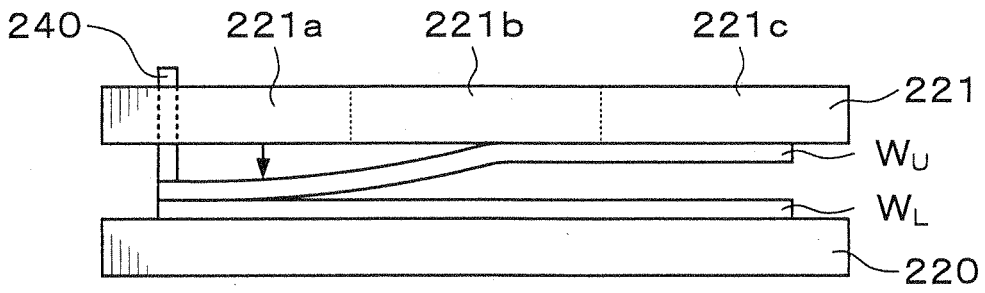


FIG.22

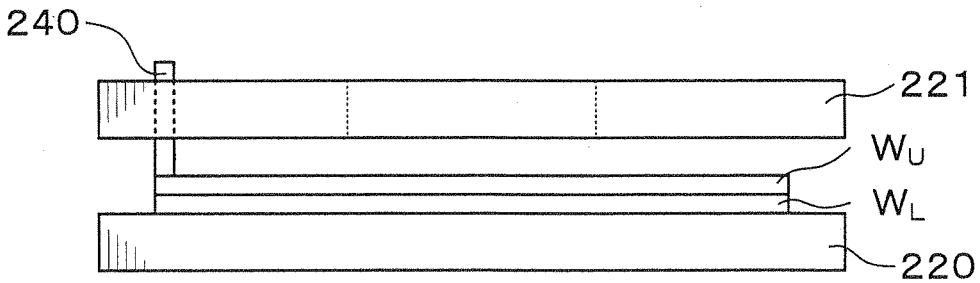


FIG.23

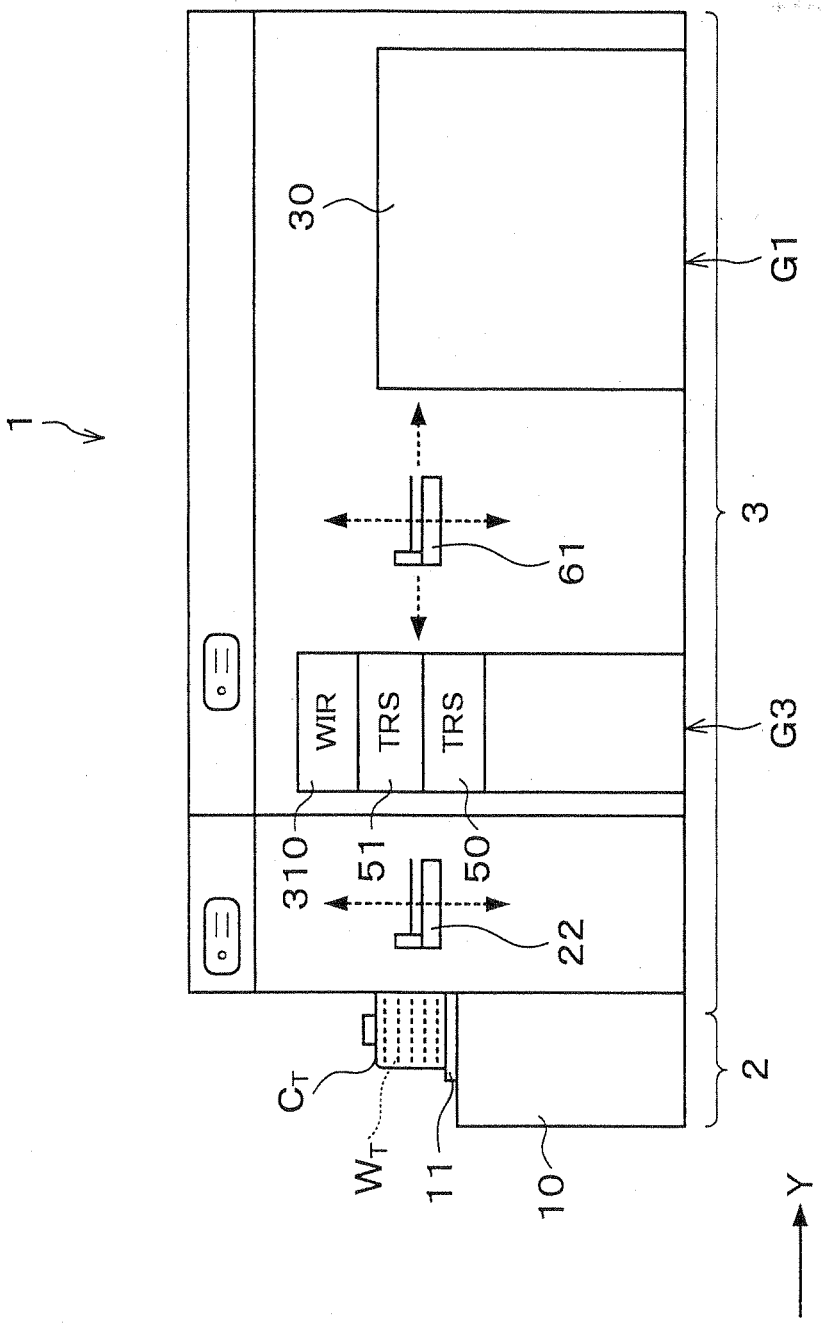


FIG.24

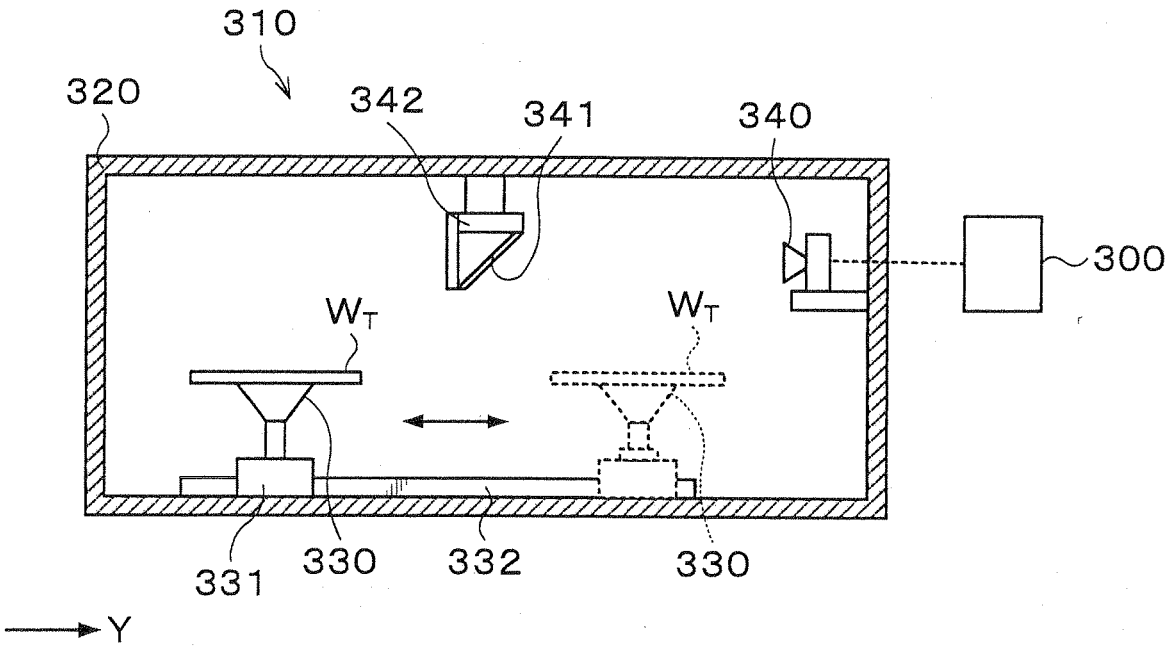
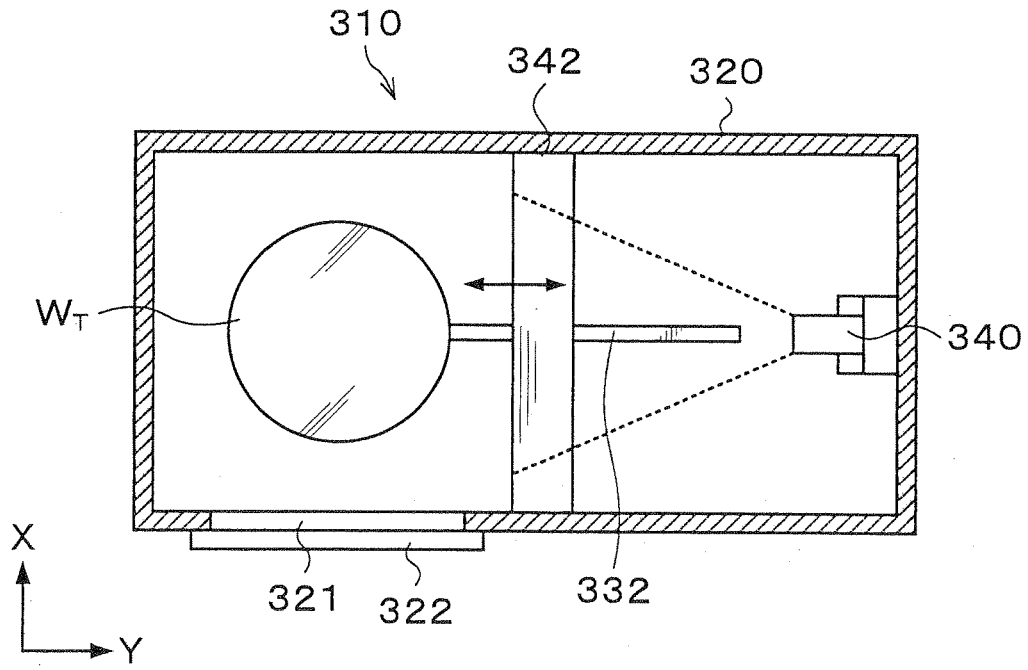

310
320
342
341
340
300
W_T
W_T
331
330
332
330
Y

FIG.25


310
342
320
W_T
340
X
321
322
332
Y

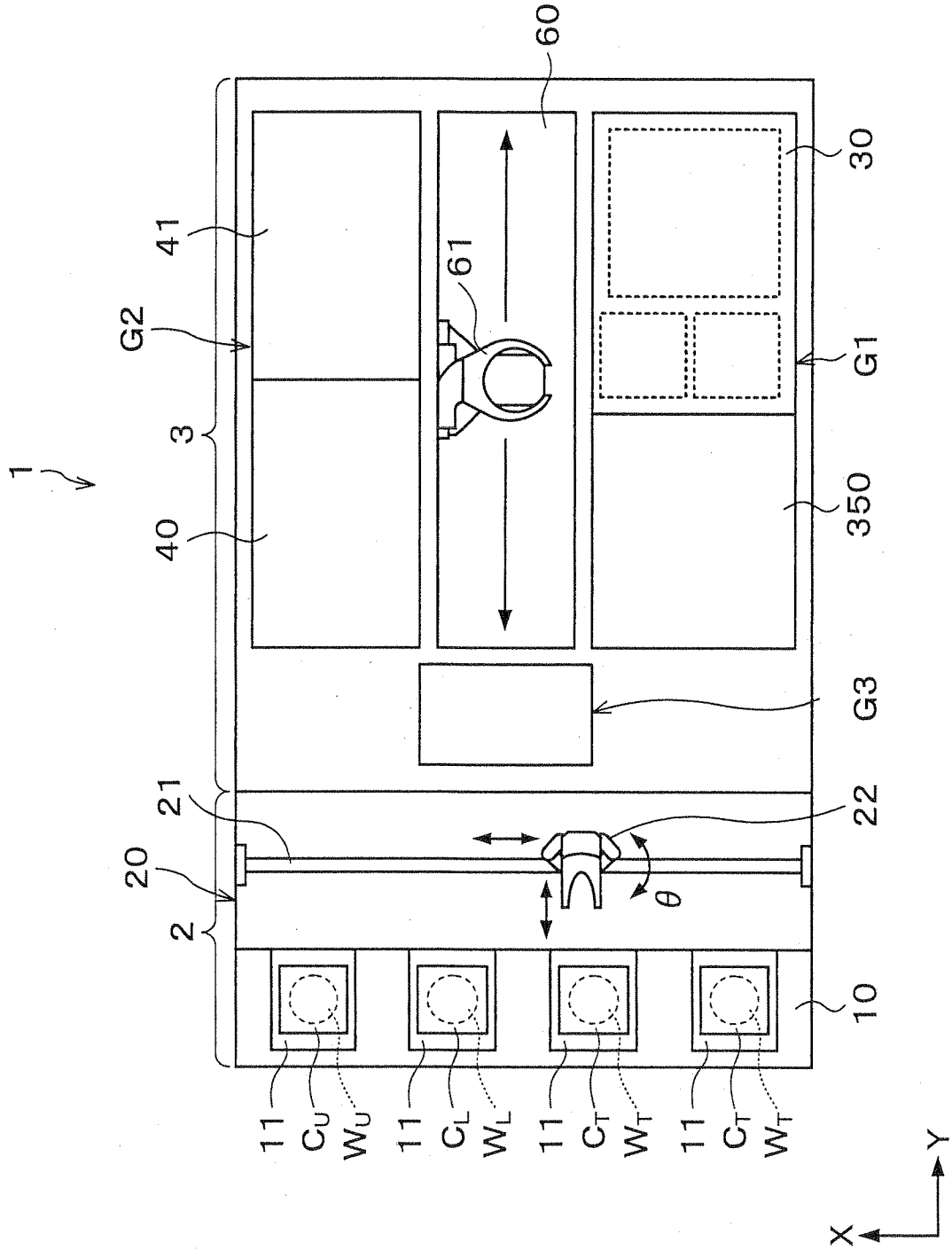

1
60
30
41
61
G2
G1
3
40
350
G3
21
22
20
θ
2
10
11
C_U
W_U
11
C_L
W_L
11
C_T
W_T
11
C_T
W_T
Y
X

FIG.26

FIG.27

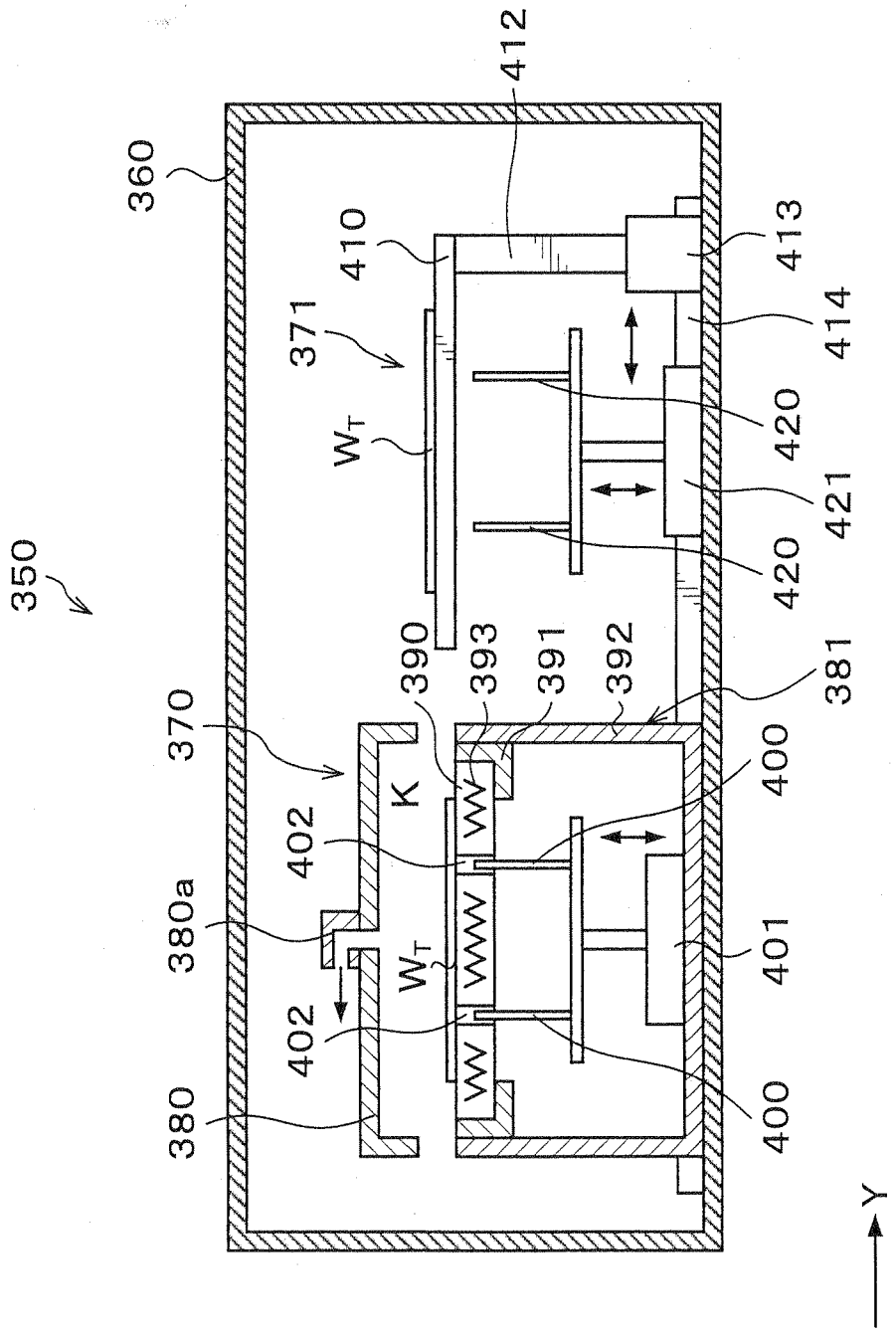
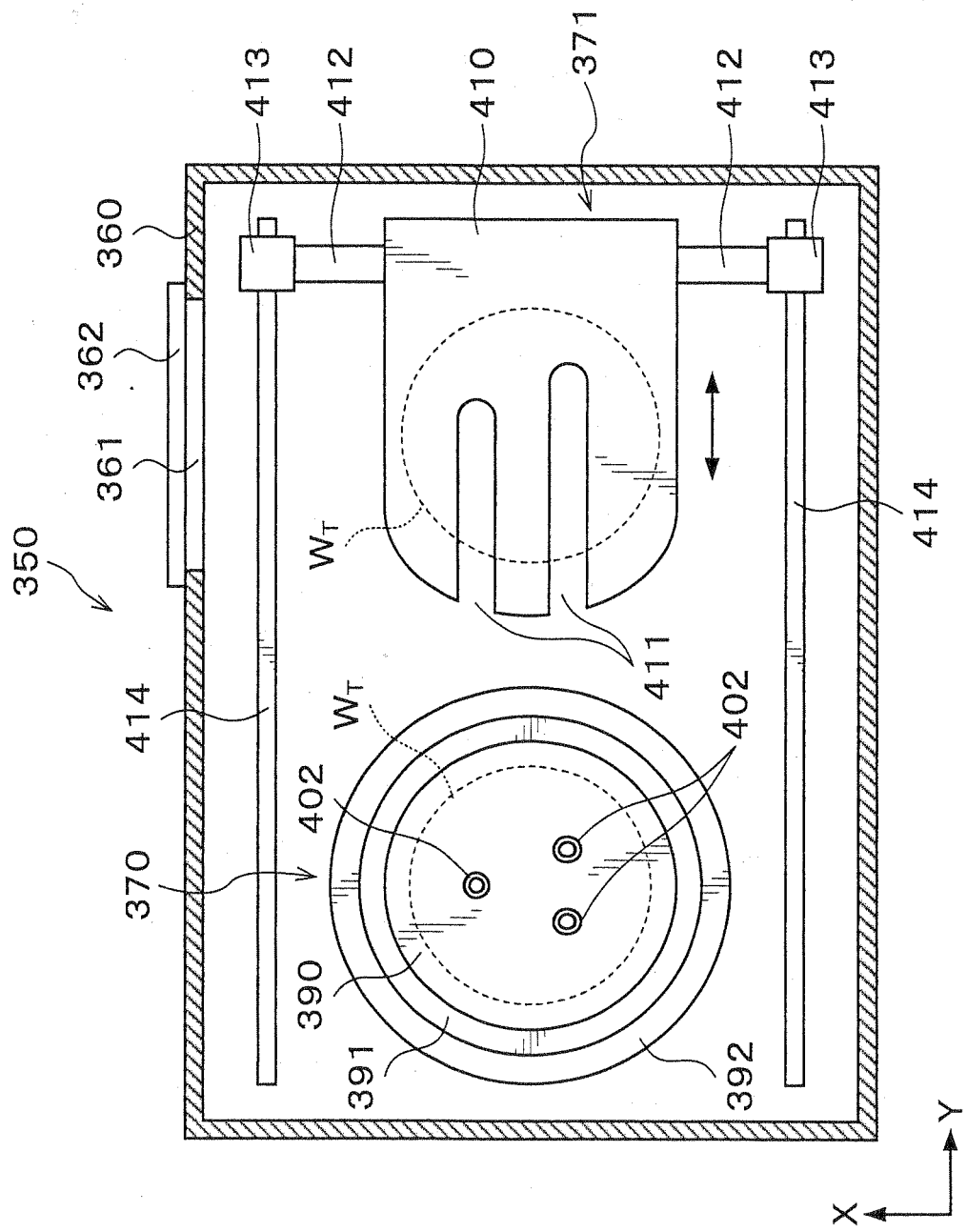

350
360
412
410
413
414
371
W_T
420
421
420
390
393
391
392
381
370
K
400
402
380a
401
W_T
402
380
400
Y

FIG.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