FIG. 1

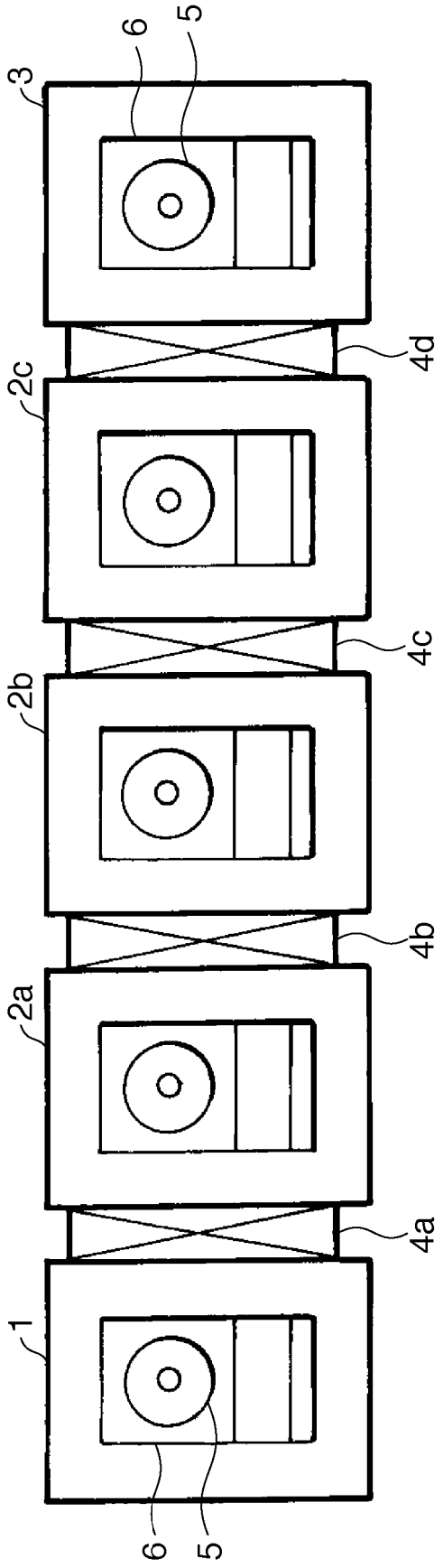


FIG. 2A

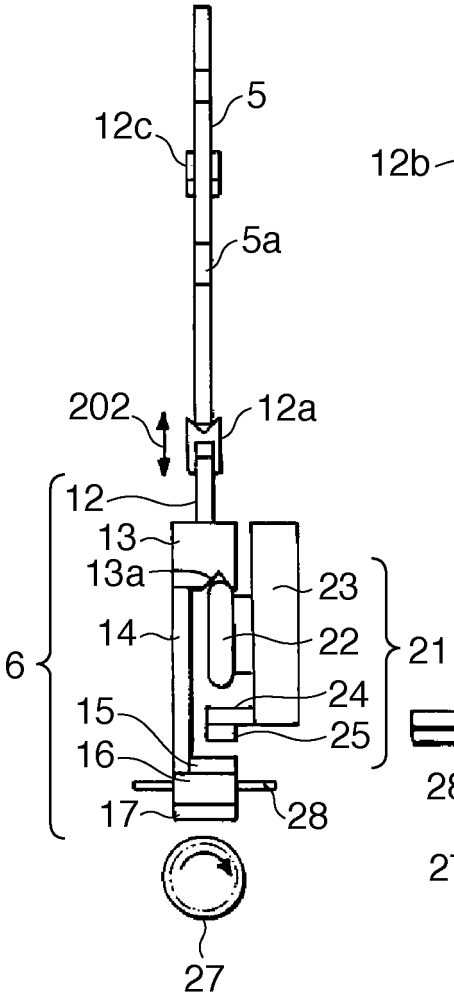

5
12c
5a
202
12a
12
13
13a
23
14
22
21
6
24
15
25
16
17
28
27

FIG. 2B

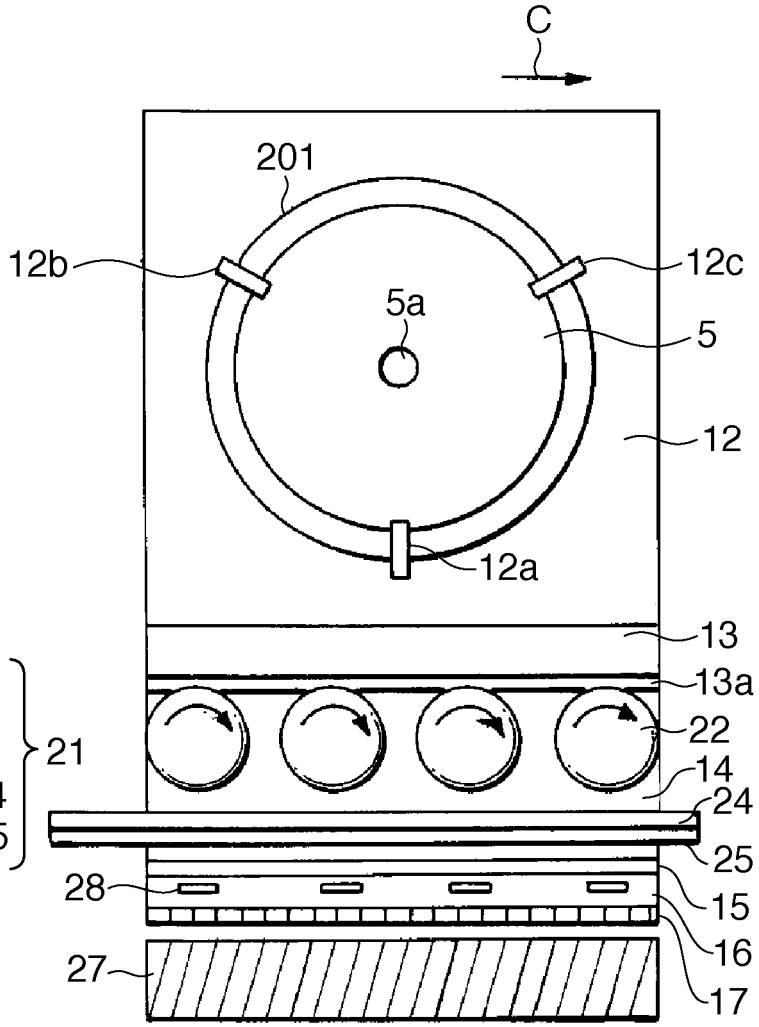

C
201
12b
12c
5a
5
12
12a
13
13a
22
14
24
25
28
15
16
27
17

FIG. 3

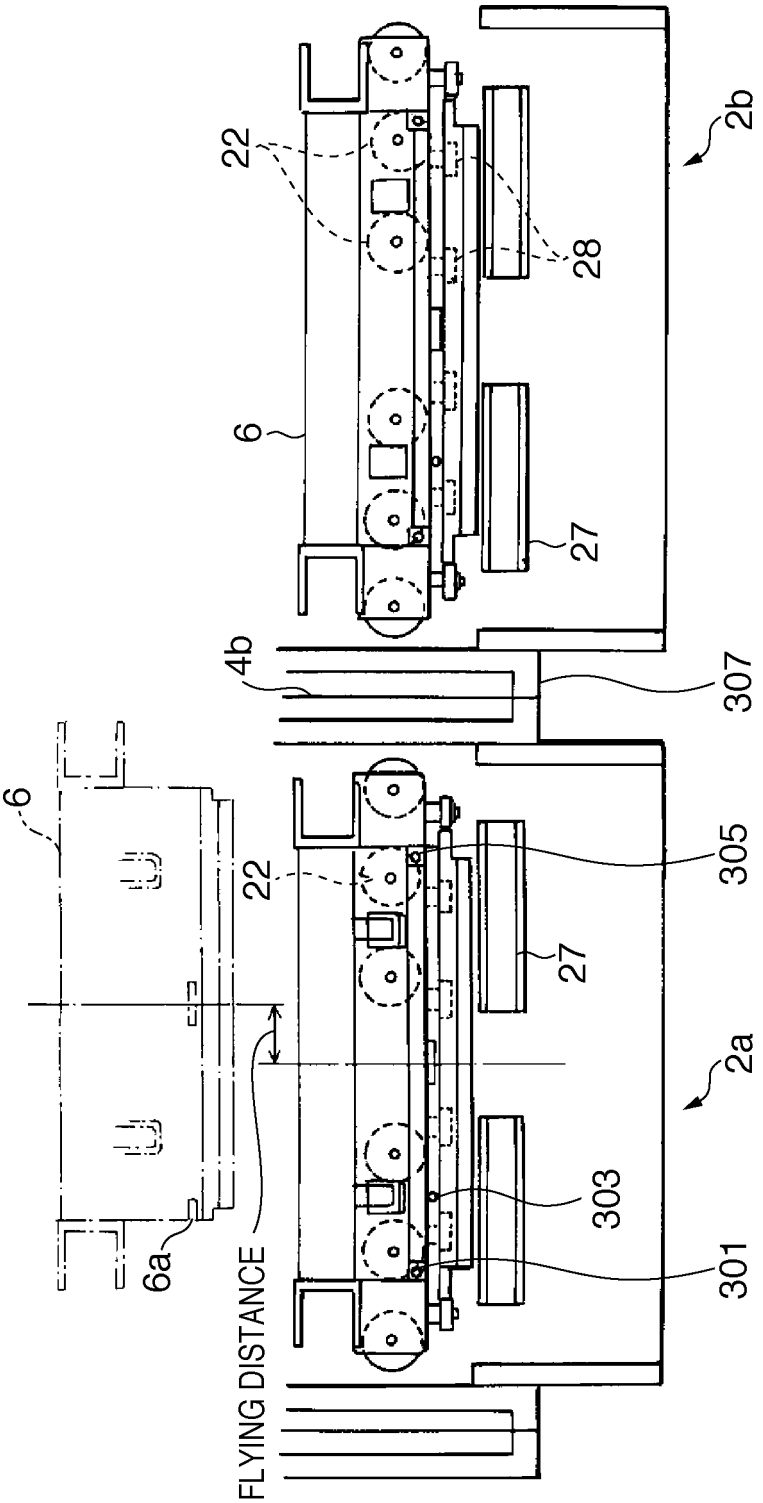


FIG. 4

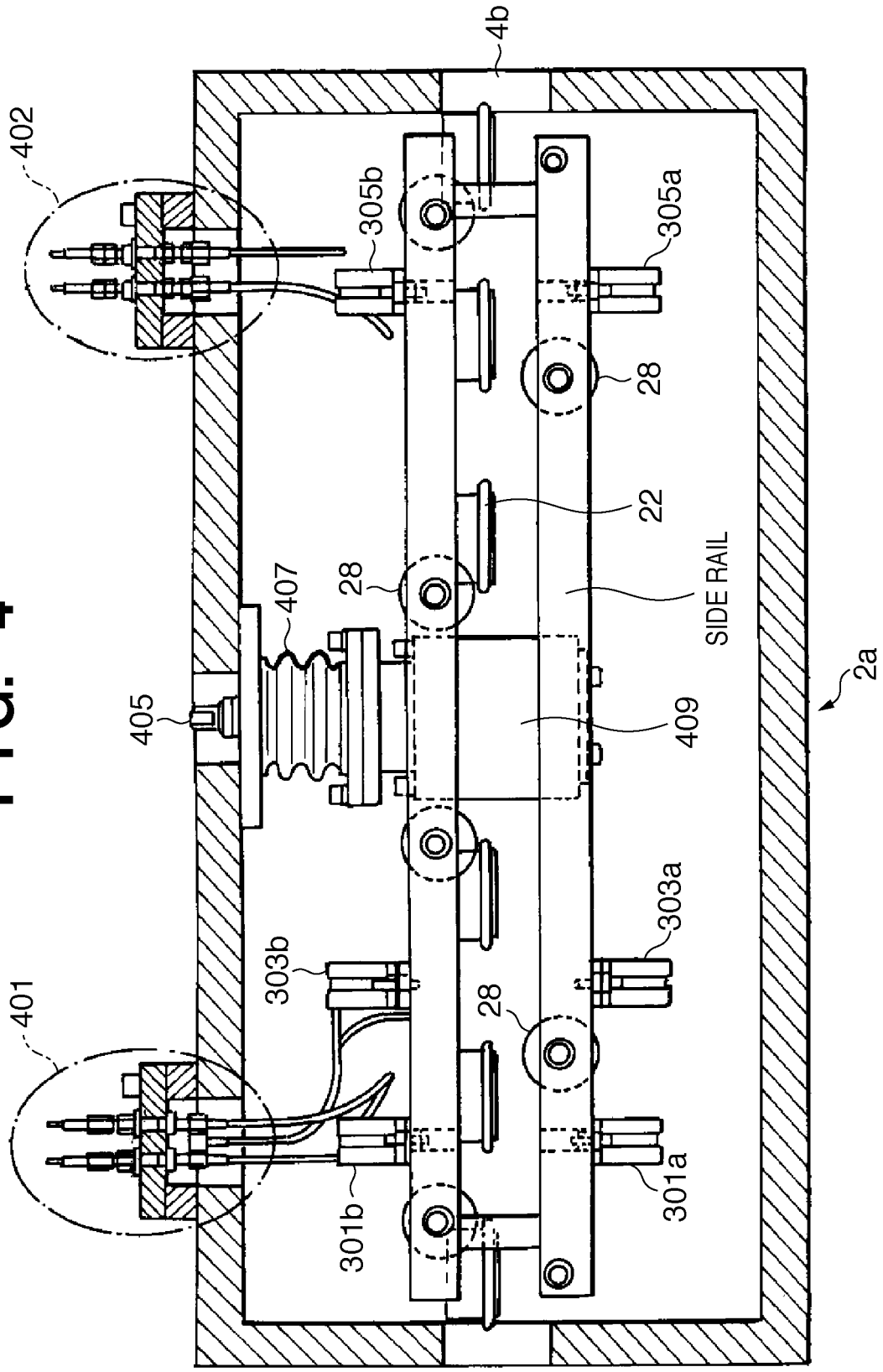

4b
402
305b
305a
28
22
SIDE RAIL
407
28
405
409
2a
303a
303b
401
28
301a
301b

FIG. 5

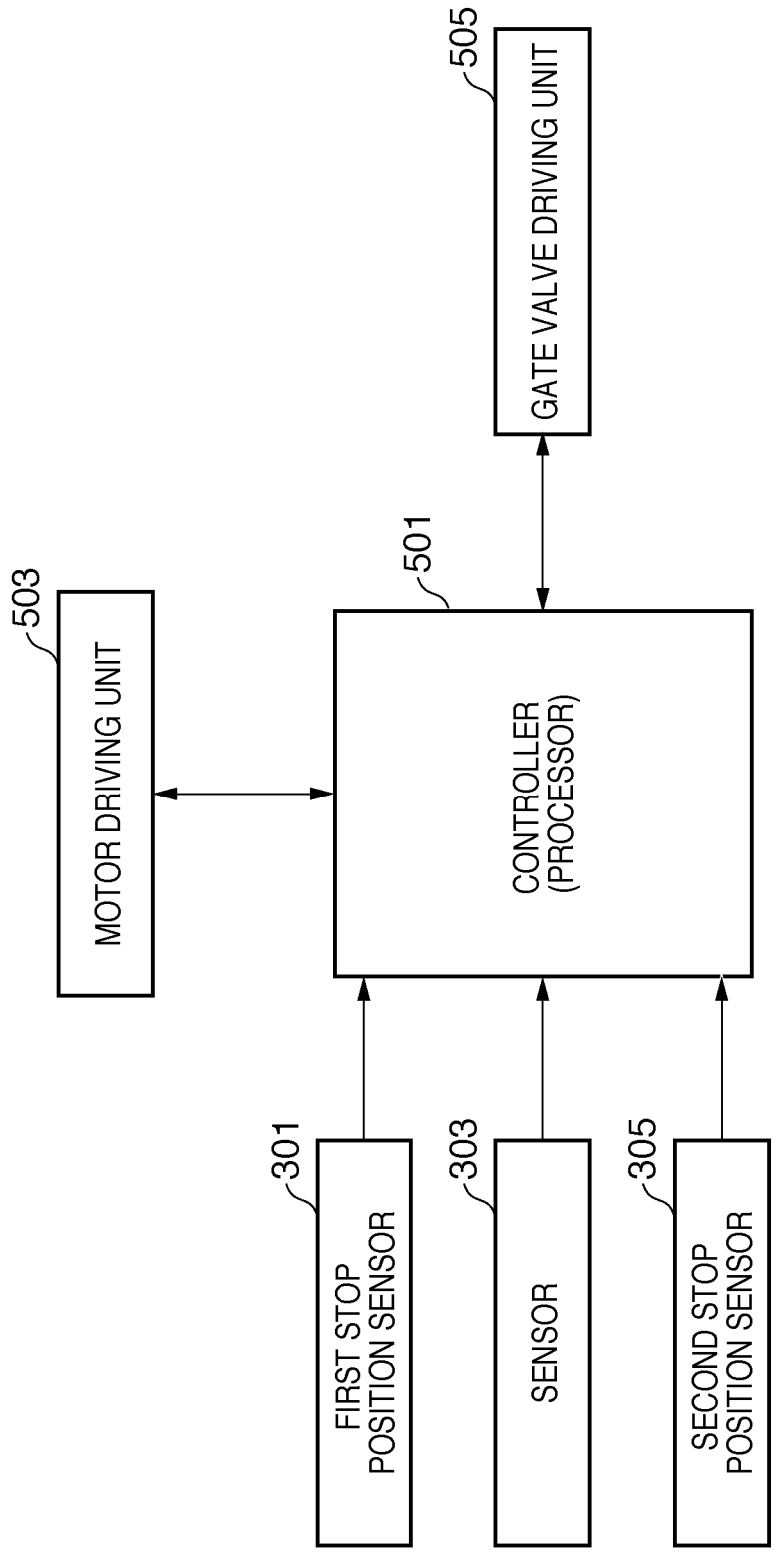

505
GATE VALVE DRIVING UNIT
501
503
MOTOR DRIVING UNIT
CONTROLLER
(PROCESSOR)
301
FIRST STOP
POSITION SENSOR
303
SENSOR
305
SECOND STOP
POSITION SENSOR

FIG. 6A

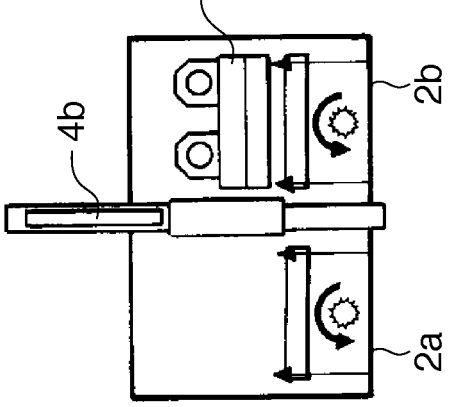


FIG. 6B

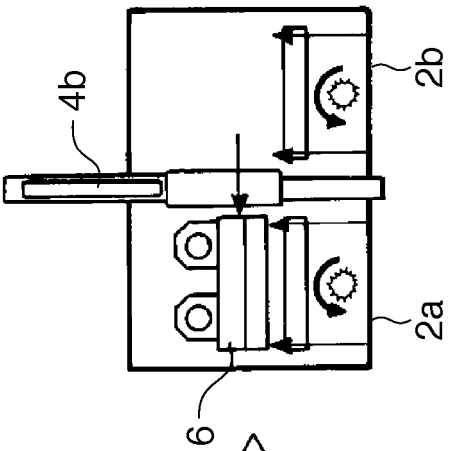


FIG. 6C

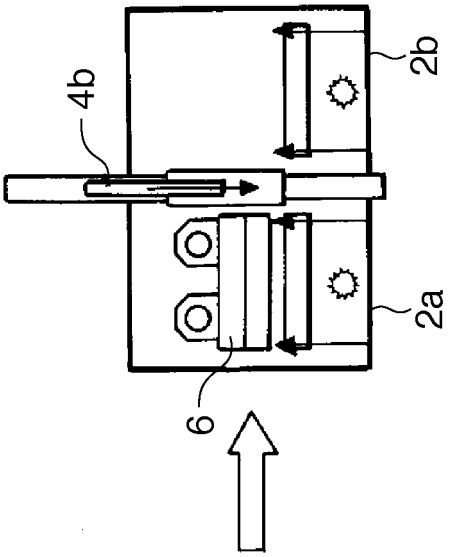


FIG. 7A

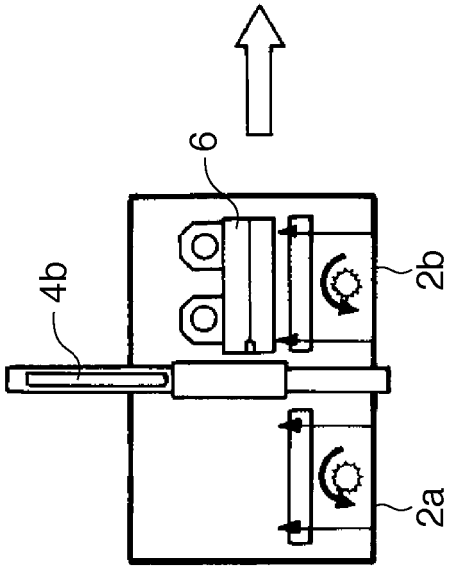


FIG. 7B

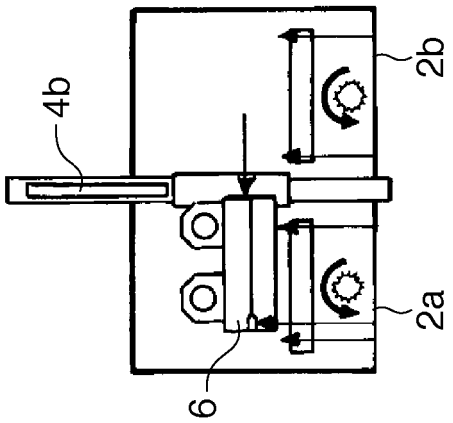


FIG. 7C

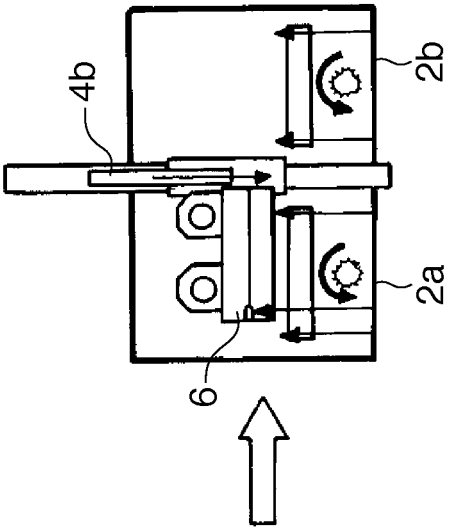
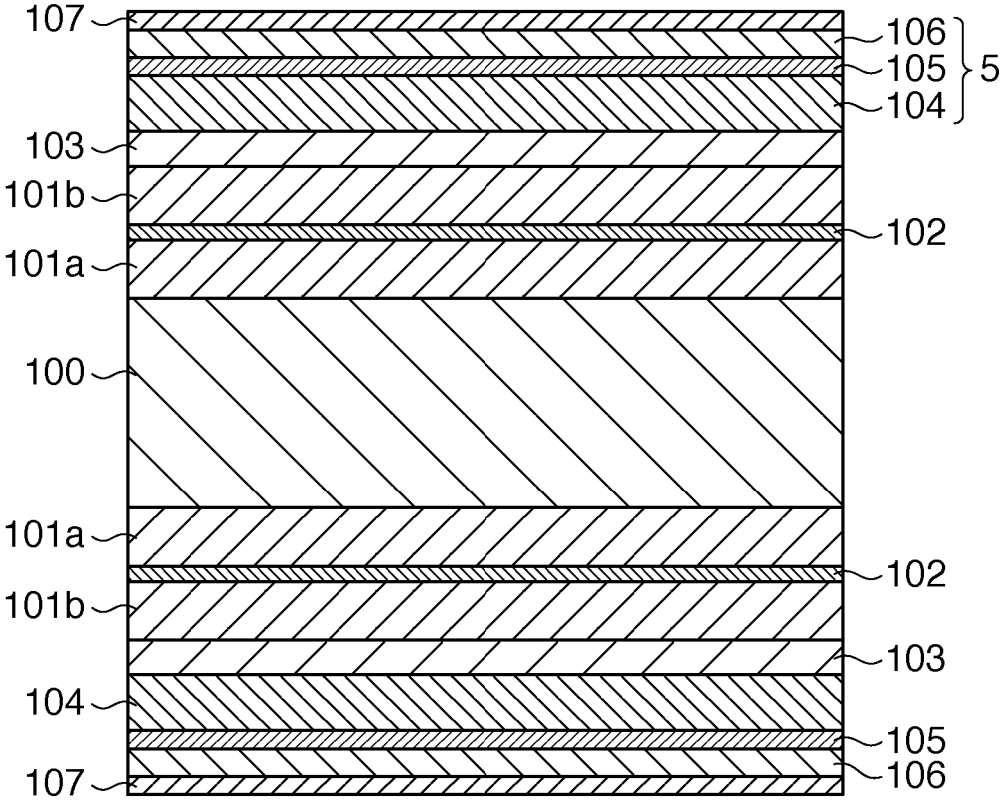


FIG. 8


107
106
105
5
104
103
101b
102
101a
100
101a
102
101b
103
104
105
107
106

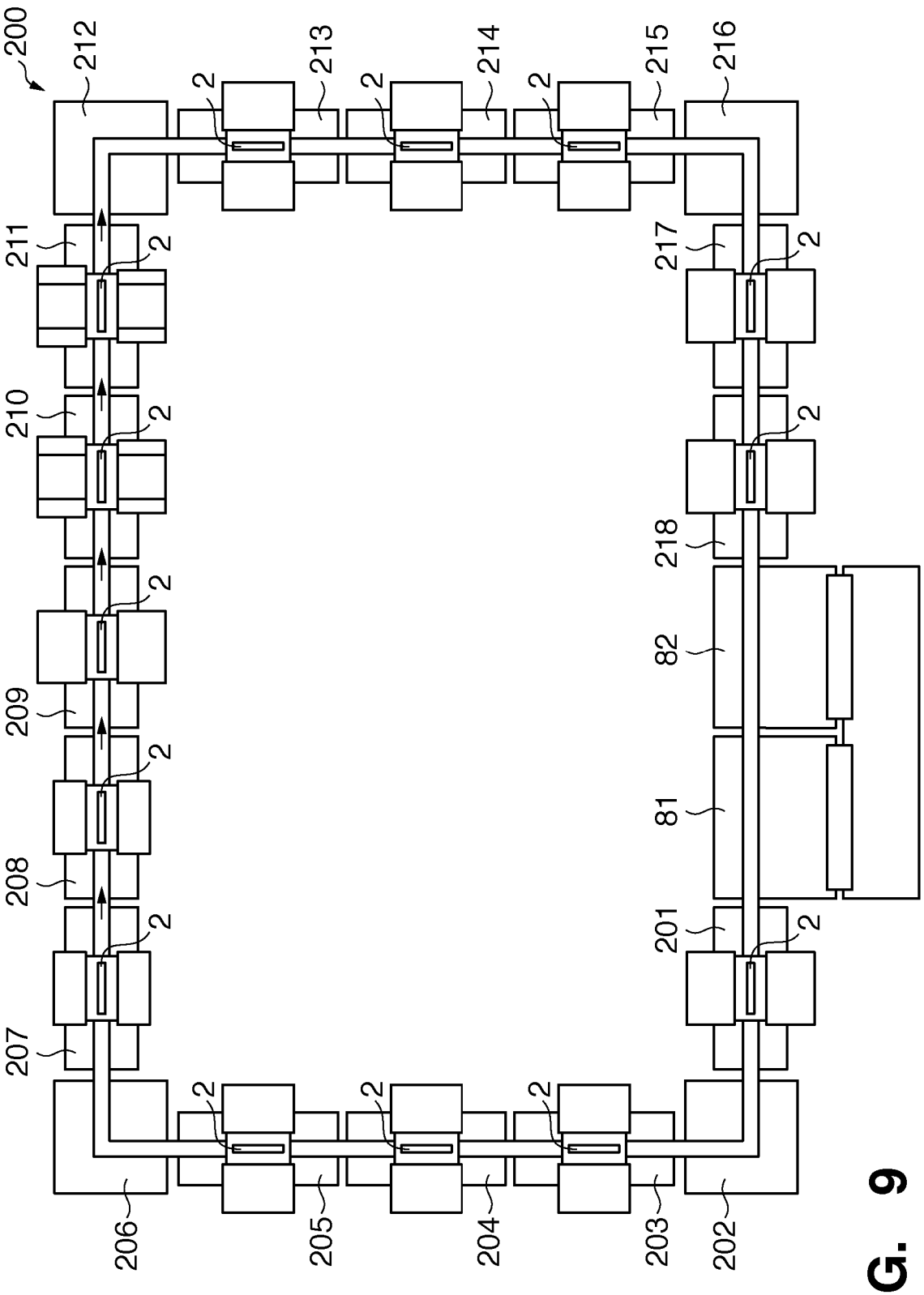
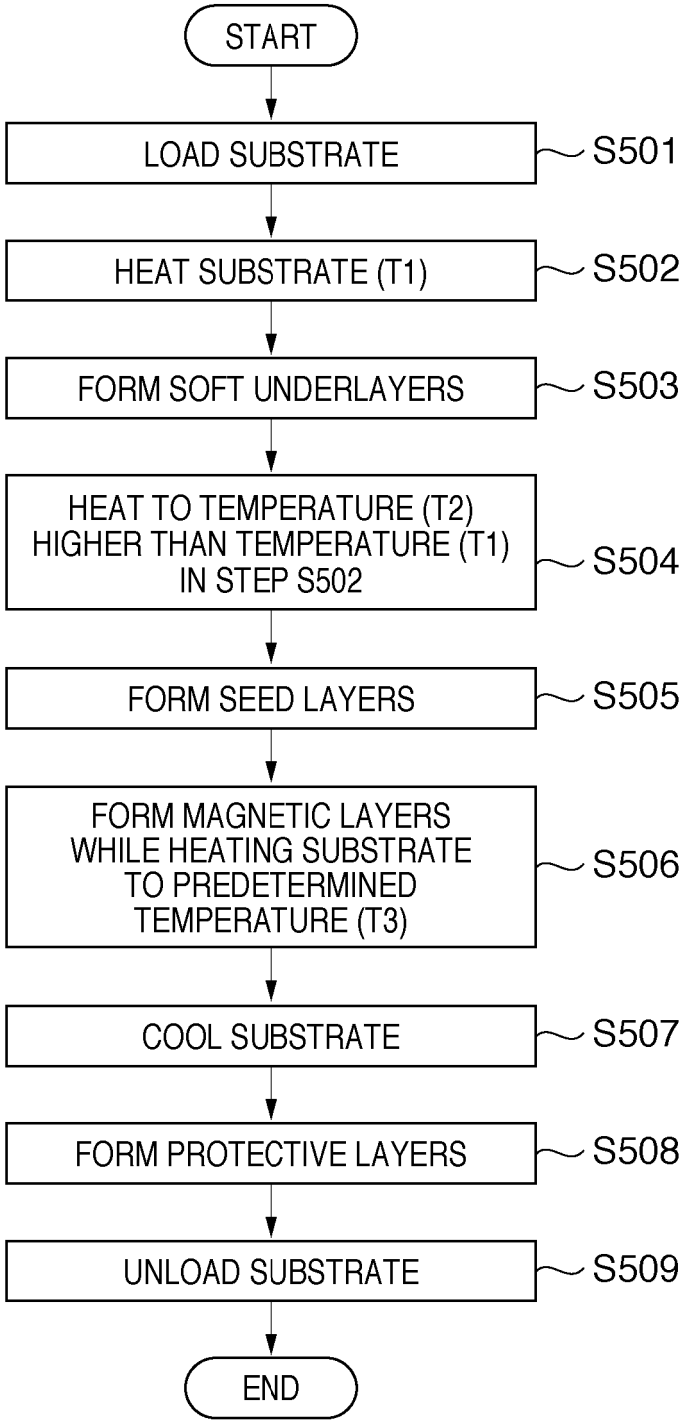

200
212
213
214
215
216
211
217
210
218
209
82
208
81
207
201
206
205
204
203
202
2

FIG. 9

FIG. 10


START
LOAD SUBSTRATE
S501
HEAT SUBSTRATE (T1)
S502
FORM SOFT UNDERLAYERS
S503
HEAT TO TEMPERATURE (T2) HIGHER THAN TEMPERATURE (T1) IN STEP S502
S504
FORM SEED LAYERS
S505
FORM MAGNETIC LAYERS WHILE HEATING SUBSTRATE TO PREDETERMINED TEMPERATURE (T3)
S506
COOL SUBSTRATE
S507
FORM PROTECTIVE LAYERS
S508
UNLOAD SUBSTRATE
S509
END