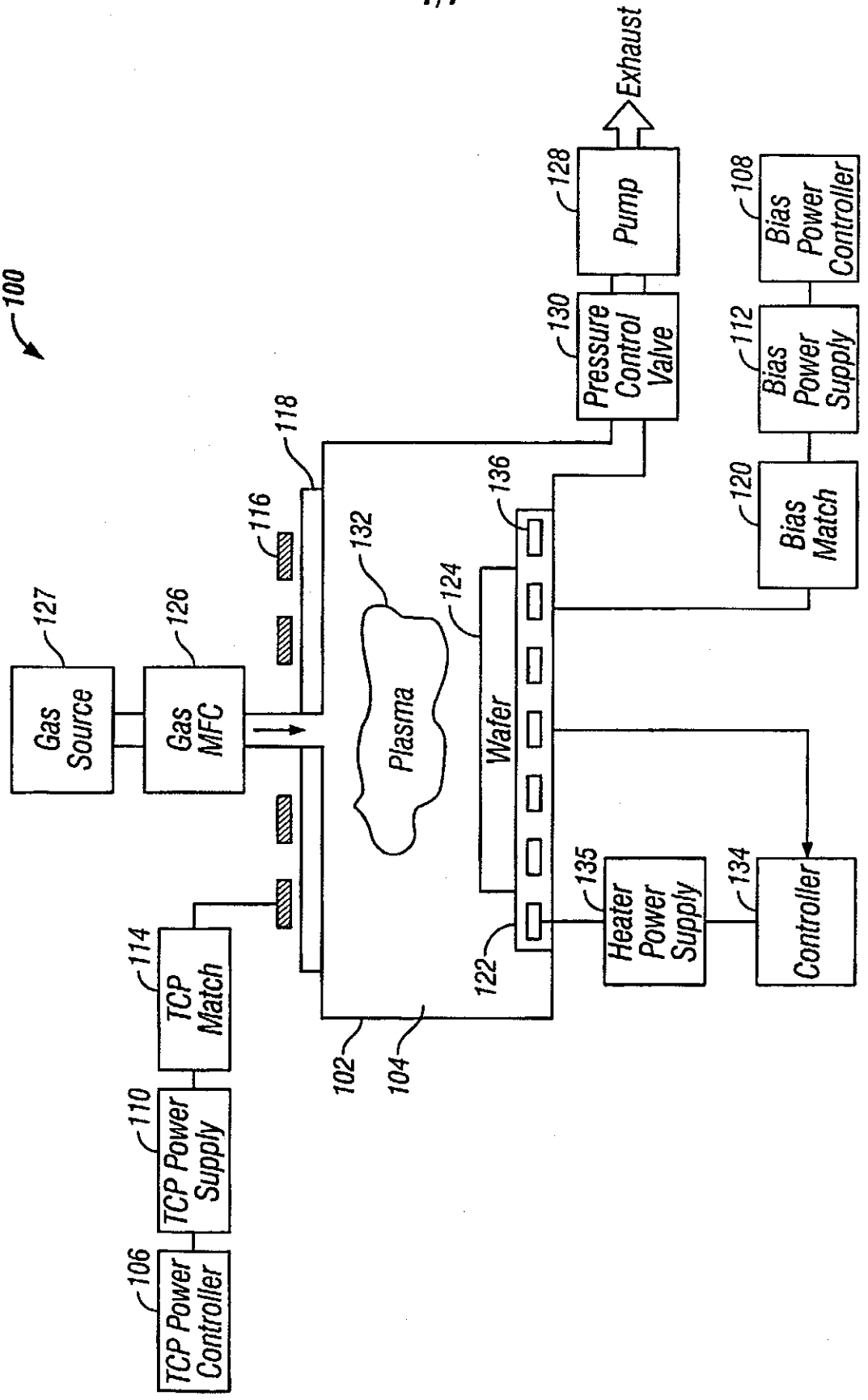

100
Gas Source
127
Gas MFC
126
TCP Match
114
TCP Power Supply
110
TCP Power Controller
106
116
118
102
104
Plasma
132
124
Wafer
122
136
Pressure Control Valve
130
Pump
128
Exhaust
Heater Power Supply
135
Controller
134
Bias Match
120
Bias Power Supply
112
Bias Power Controller
108

FIG. 1

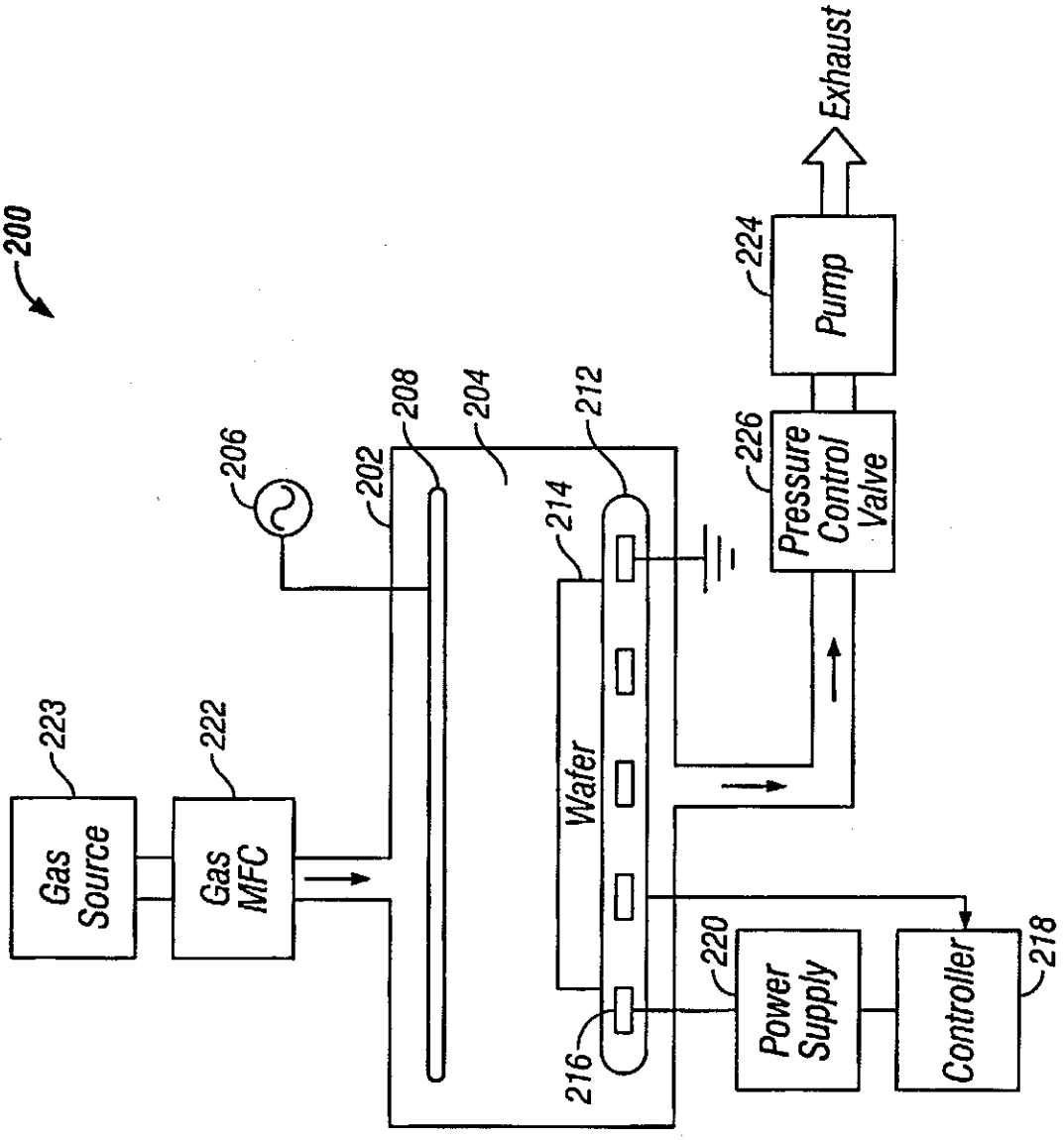

200
Exhaust
224
Pump
226
Pressure Control Valve
206
202
208
204
212
214
223
222
Gas Source
Gas MFC
Wafer
220
Power Supply
Controller
218
216

FIG. 2

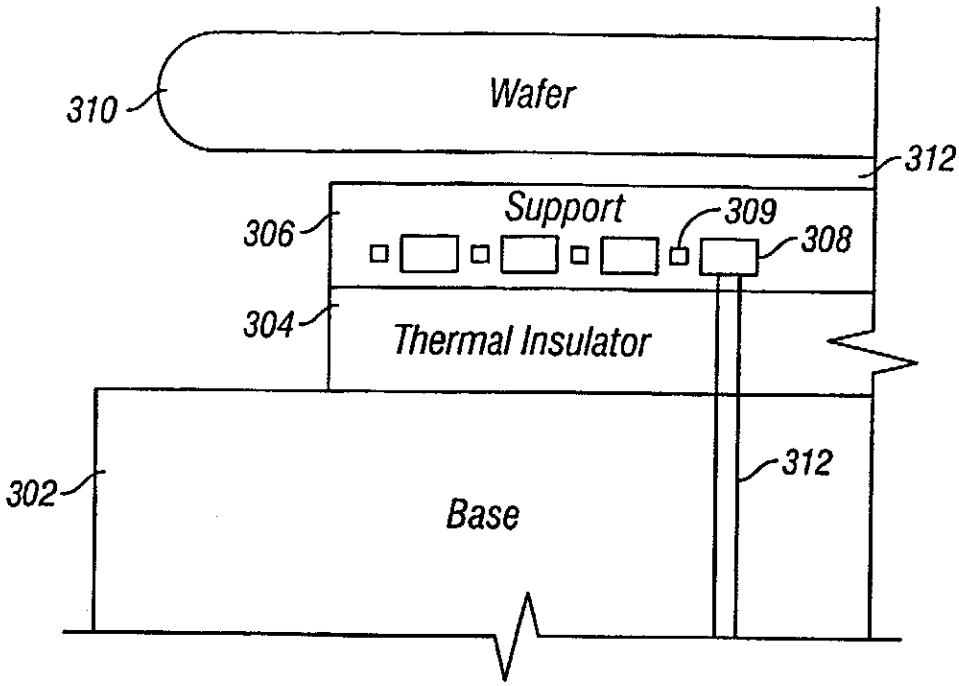

Wafer
310
312
Support
306
309
308
304
Thermal Insulator
312
302
Base

FIG. 3

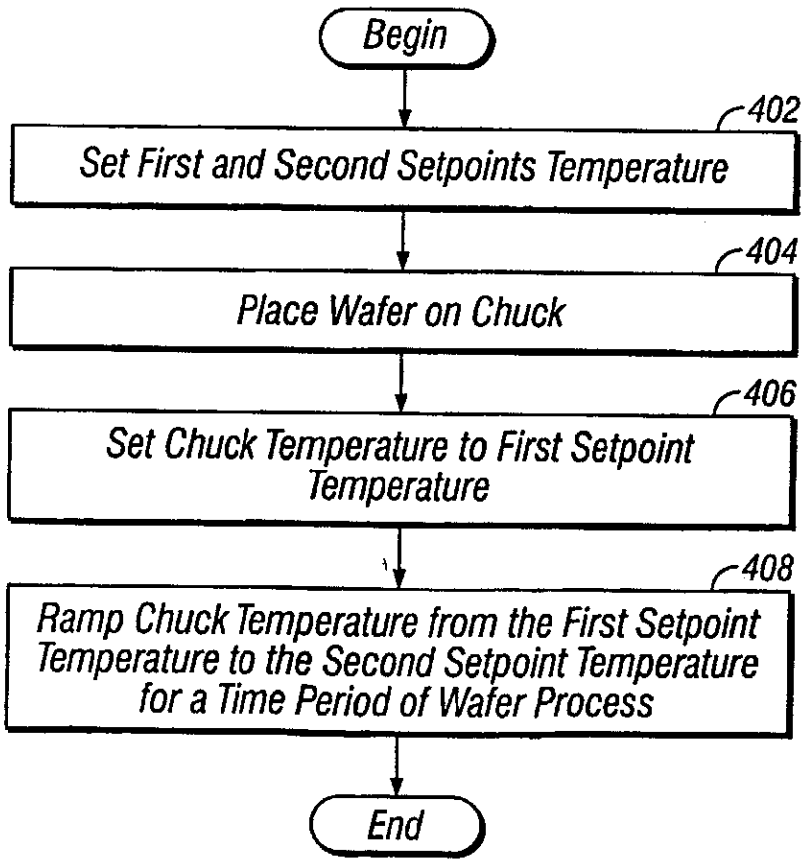

Begin
402
Set First and Second Setpoints Temperature
404
Place Wafer on Chuck
406
Set Chuck Temperature to First Setpoint Temperature
408
Ramp Chuck Temperature from the First Setpoint Temperature to the Second Setpoint Temperature for a Time Period of Wafer Process
End

FIG. 4A

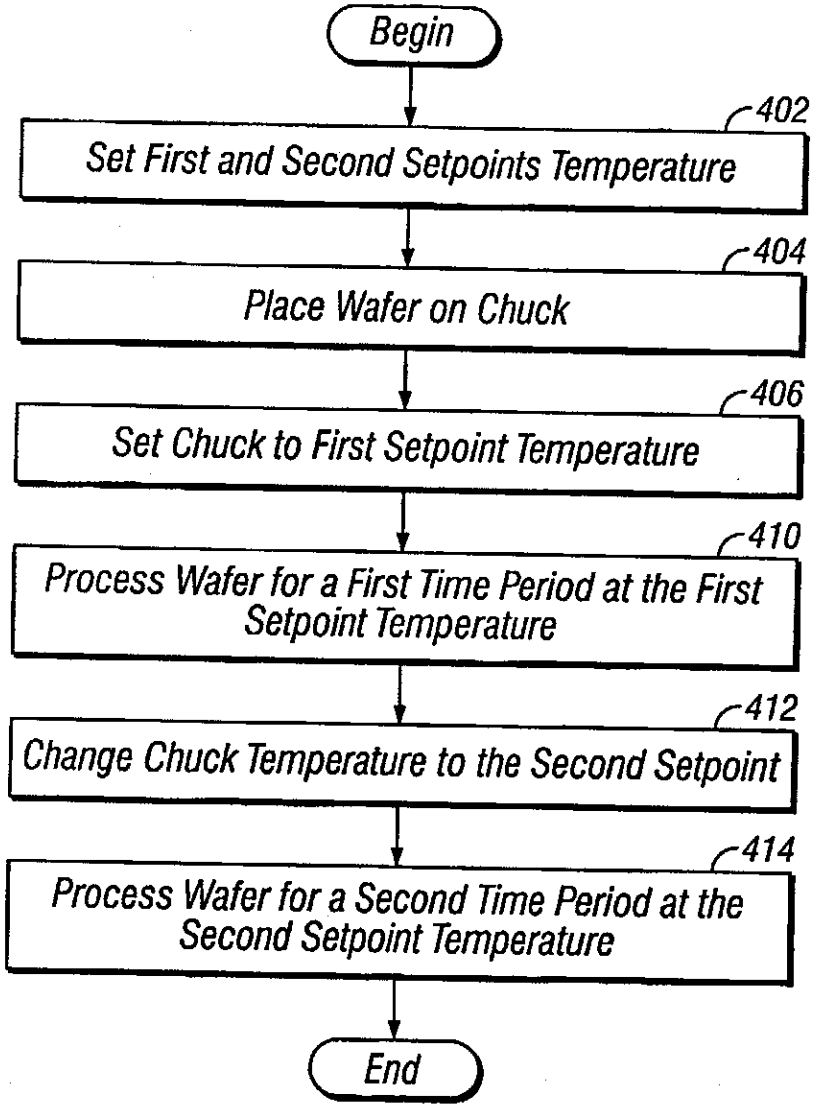

Begin
402
Set First and Second Setpoints Temperature
404
Place Wafer on Chuck
406
Set Chuck to First Setpoint Temperature
410
Process Wafer for a First Time Period at the First Setpoint Temperature
412
Change Chuck Temperature to the Second Setpoint
414
Process Wafer for a Second Time Period at the Second Setpoint Temperature
End

FIG. 4B

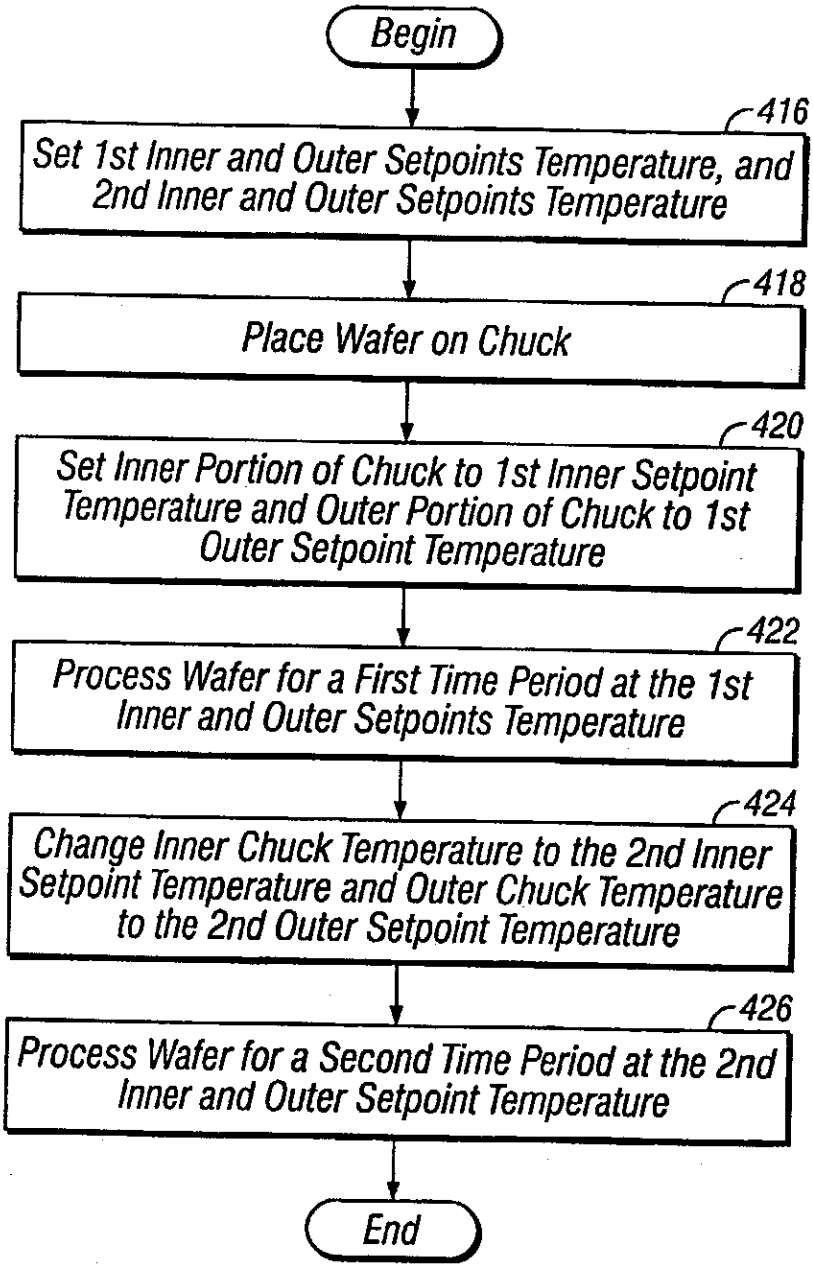

Begin
416
Set 1st Inner and Outer Setpoints Temperature, and 2nd Inner and Outer Setpoints Temperature
418
Place Wafer on Chuck
420
Set Inner Portion of Chuck to 1st Inner Setpoint Temperature and Outer Portion of Chuck to 1st Outer Setpoint Temperature
422
Process Wafer for a First Time Period at the 1st Inner and Outer Setpoints Temperature
424
Change Inner Chuck Temperature to the 2nd Inner Setpoint Temperature and Outer Chuck Temperature to the 2nd Outer Setpoint Temperature
426
Process Wafer for a Second Time Period at the 2nd Inner and Outer Setpoint Temperature
End

FIG. 4C

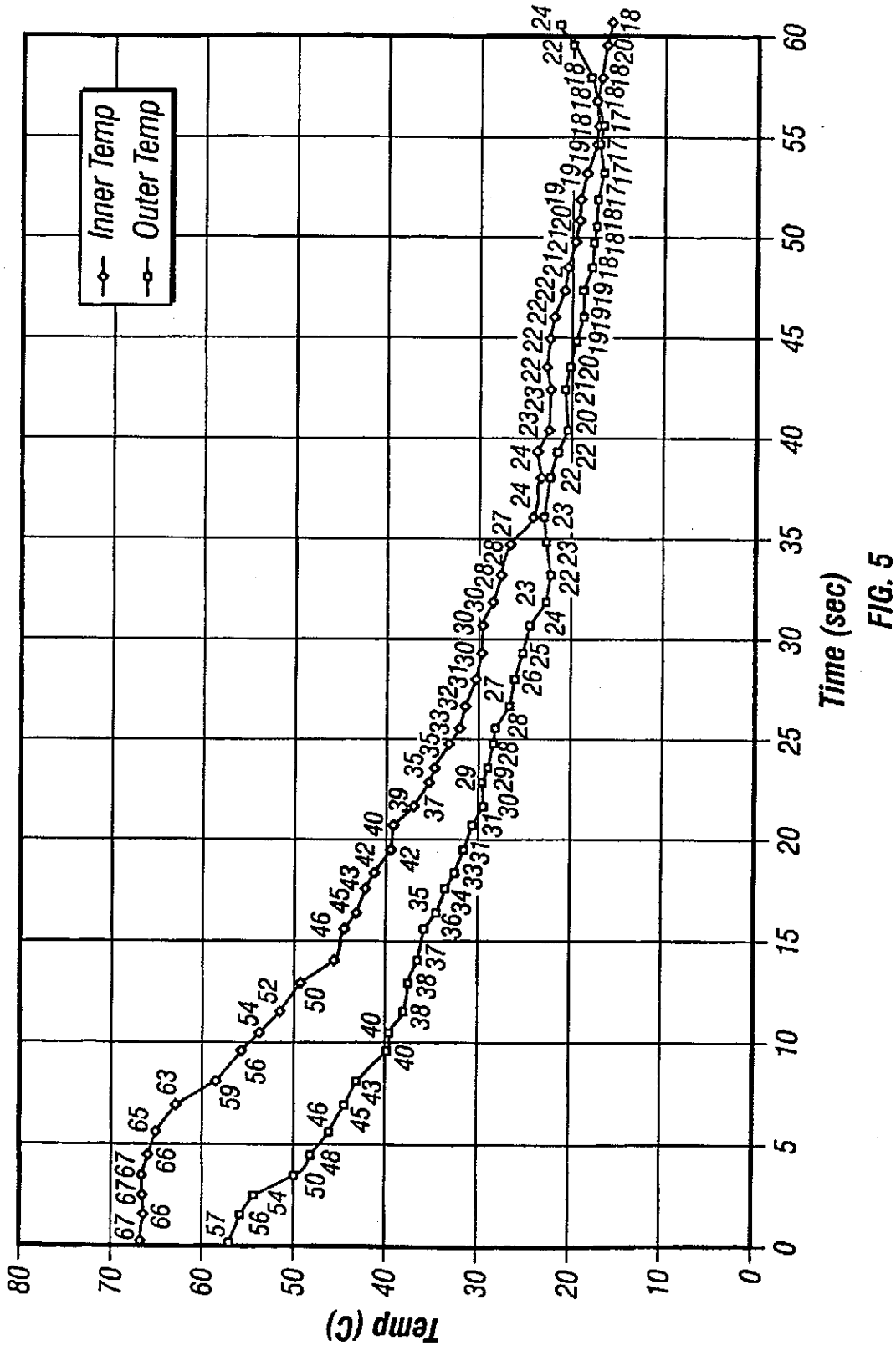

Inner Temp
Outer Temp
Temp (C)
Time (sec)
0
10
20
30
40
50
60
70
80
0
5
10
15
20
25
30
35
40
45
50
55
60

FIG. 5

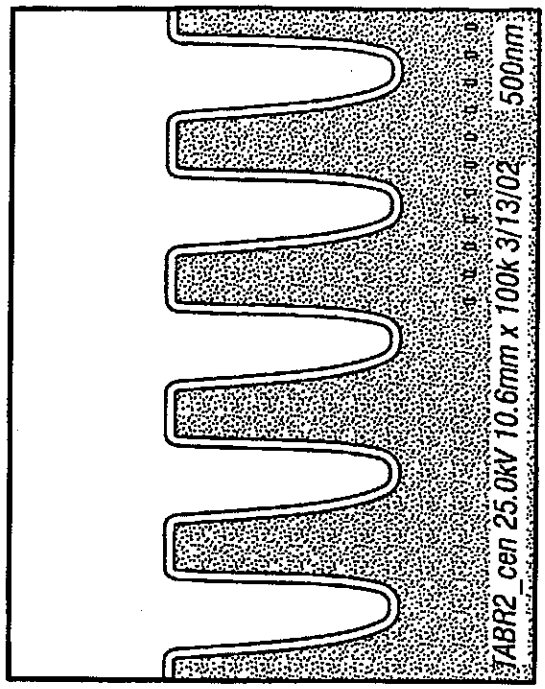

ABR2_cen 25.0kV 10.6mm x 100k 3/13/02
500nm

FIG. 6B

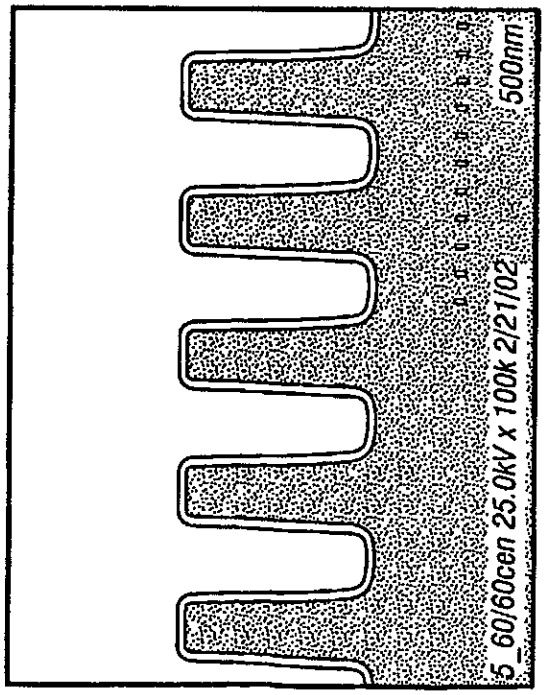

5_60/60cen 25.0kV x 100k 2/21/02
500nm

FIG. 6A