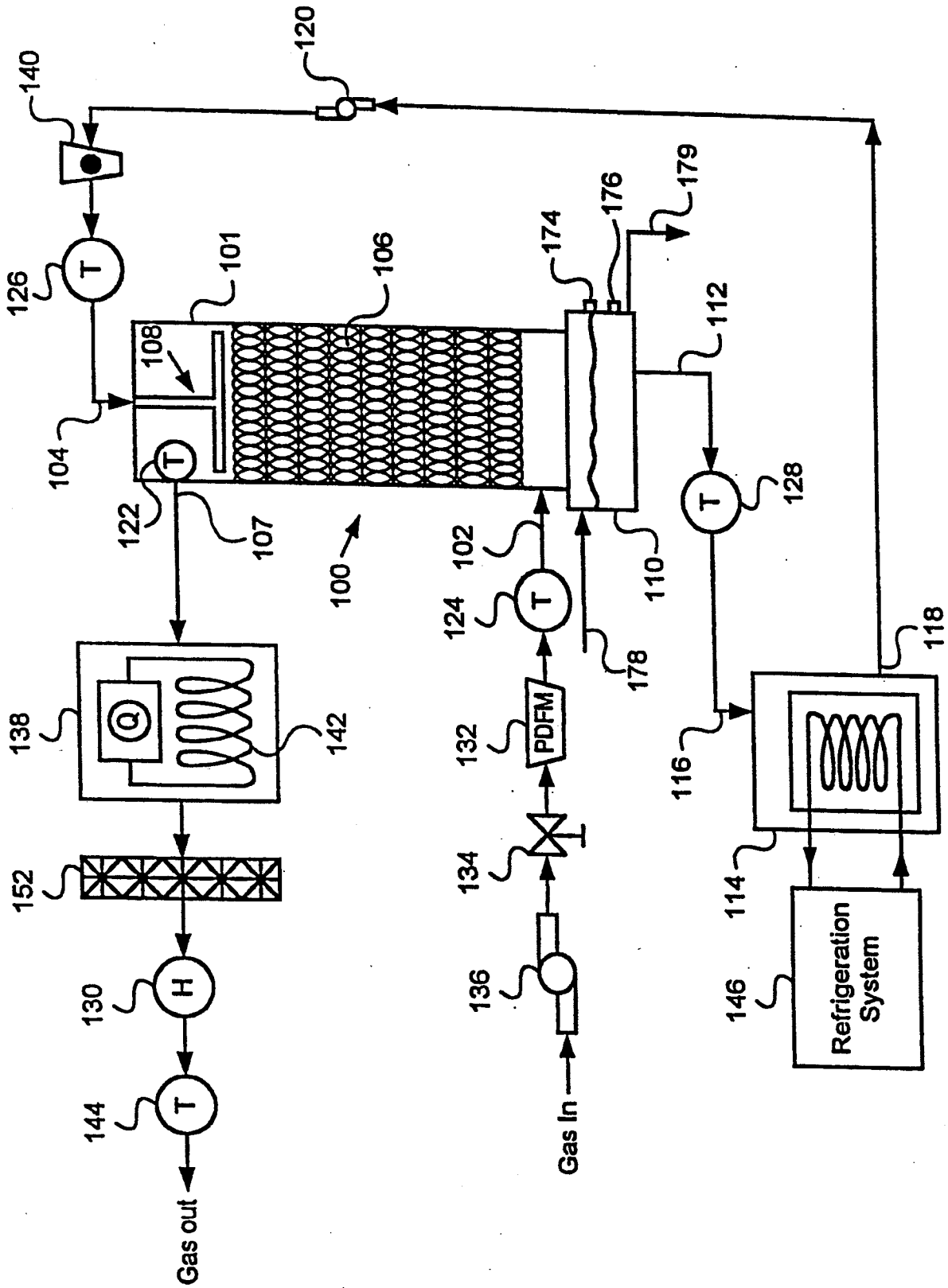

120
140
126
T
101
106
108
104
122
107
100
174
176
179
112
128
102
124
110
178
138
Q
142
132
PDFM
134
136
152
130
H
144
Gas out
Gas In
116
118
114
146
Refrigeration System

Figure 1

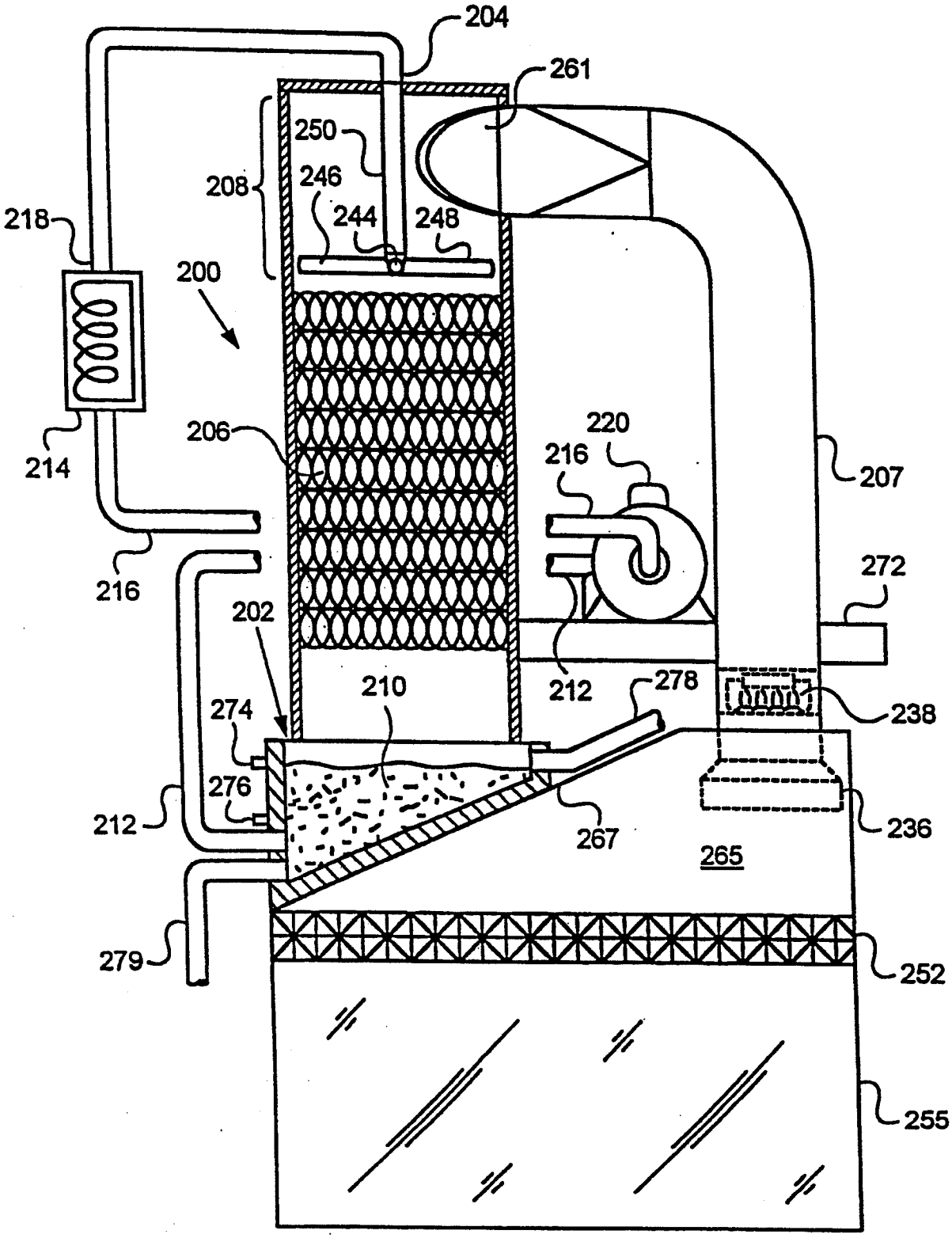
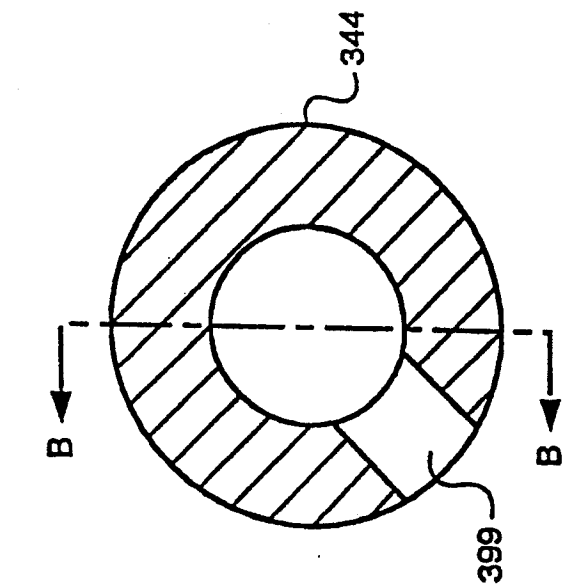
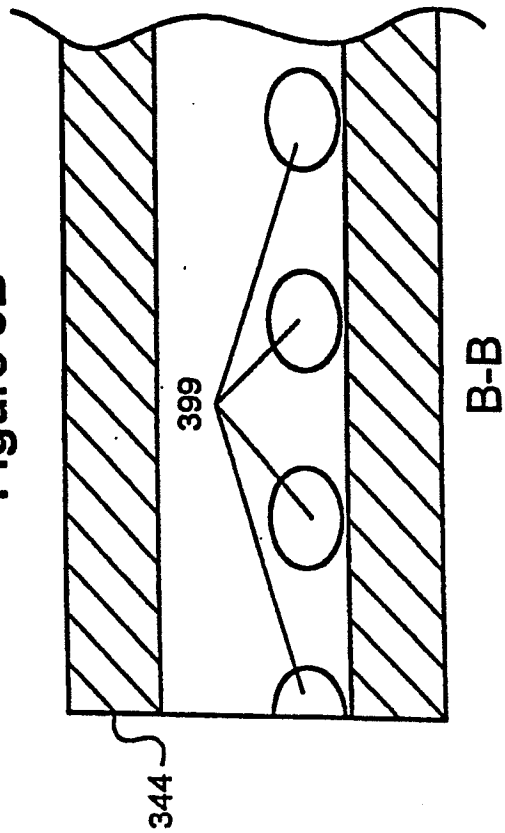

204
261
250
246
208
244
248
218
200
206
220
216
207
214
216
272
202
210
212
278
238
274
276
212
267
236
265
279
252
255

Figure 2



A-A
Figure 3B



B-B
Figure 3C

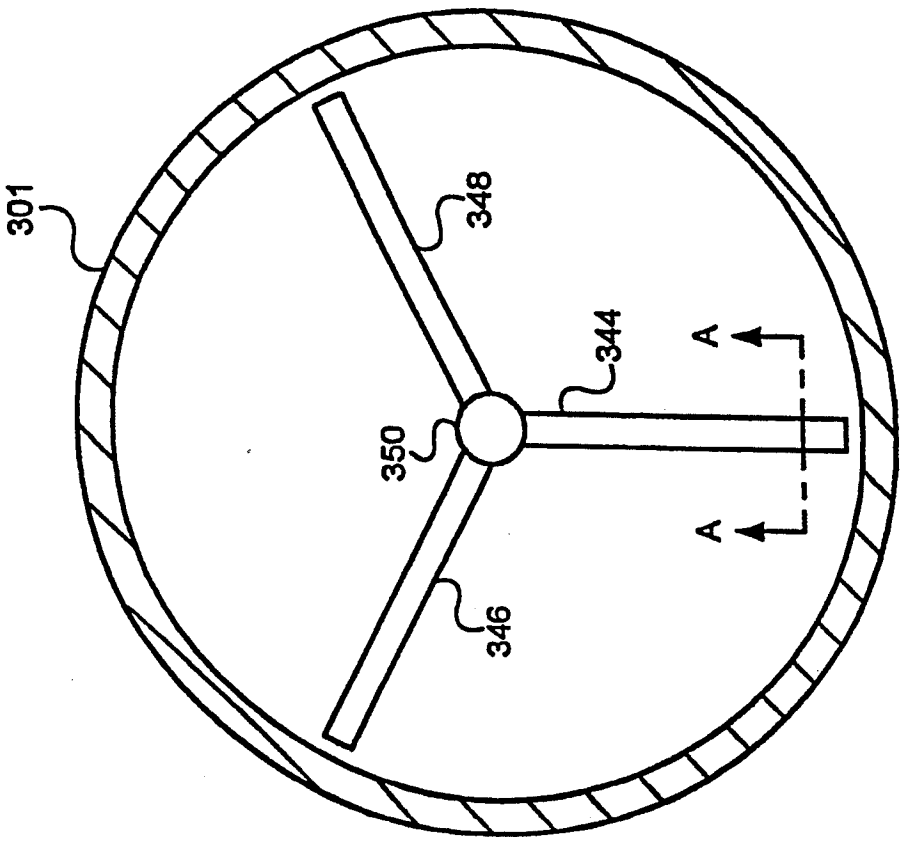


Figure 3A

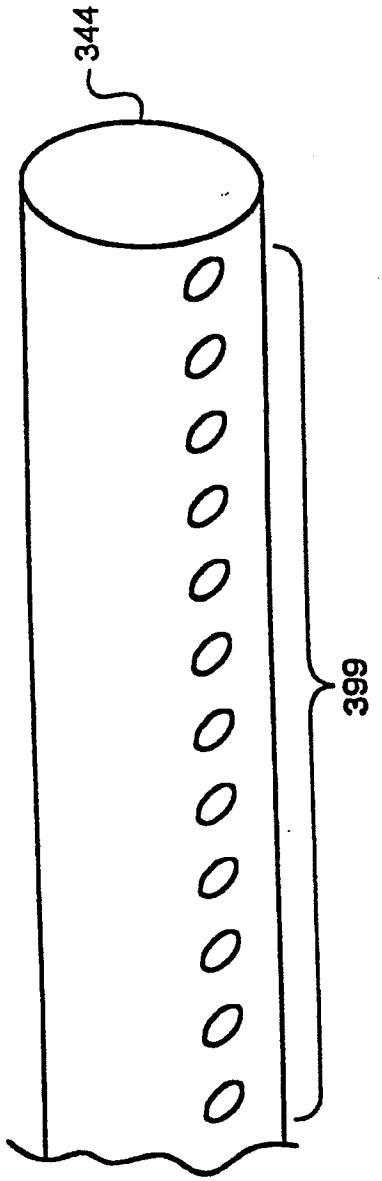


Figure 3D

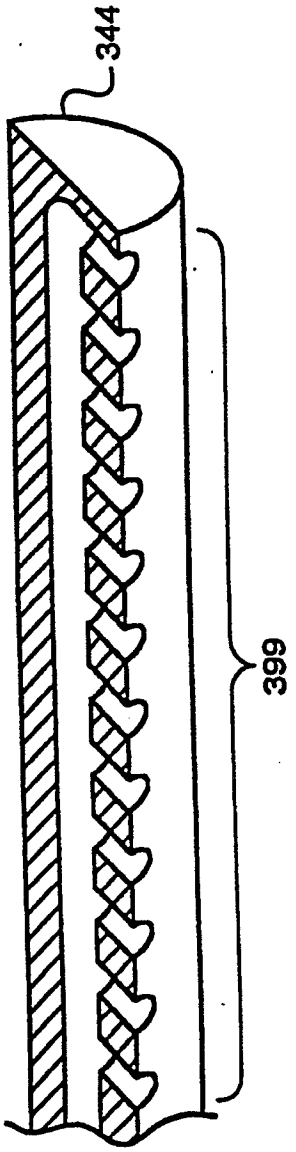


Figure 3E

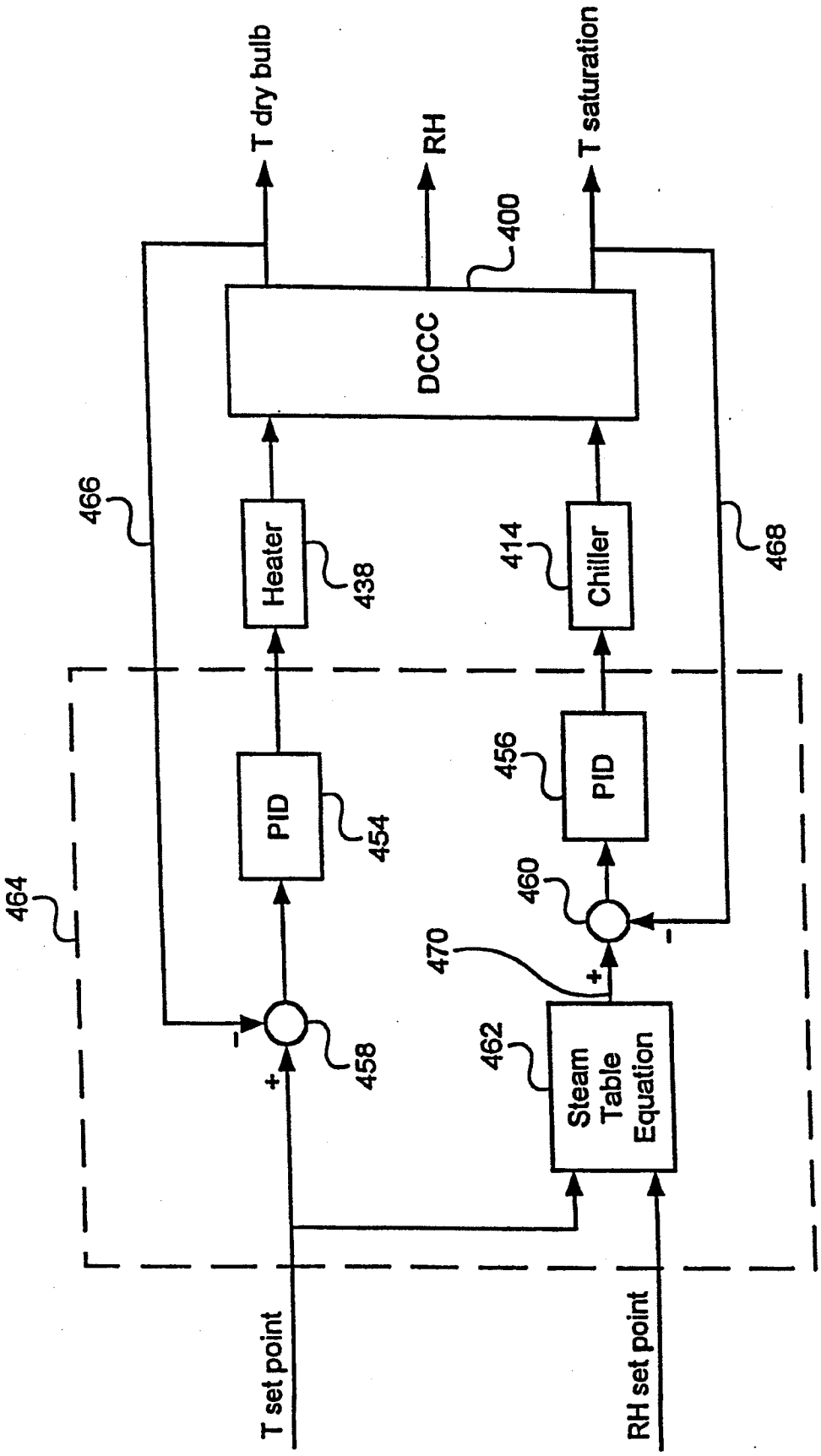

T dry bulb
RH
T saturation
400
DCCC
466
Heater
438
414
Chiller
468
PID
454
456
PID
464
460
470
458
462
Steam Table Equation
T set point
RH set point

Figure 4

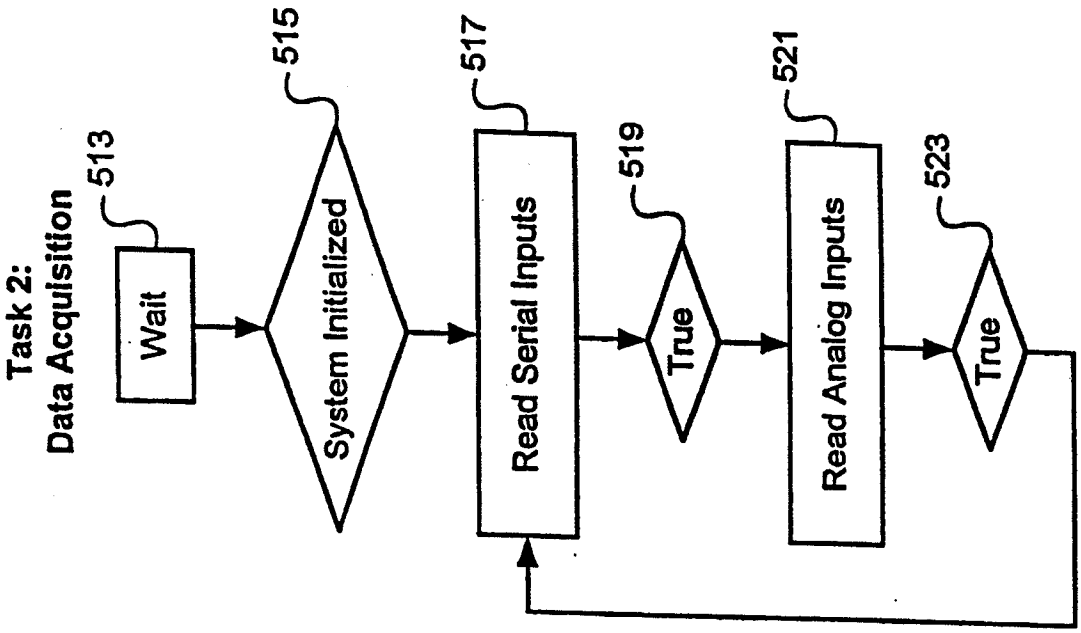


Figure 5C

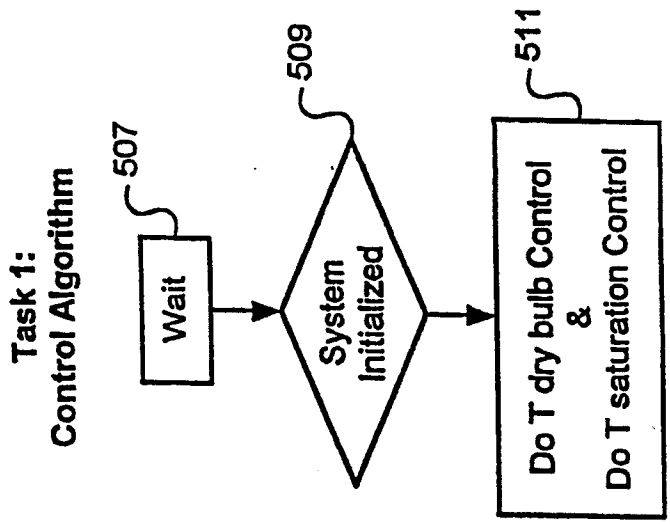


Figure 5B

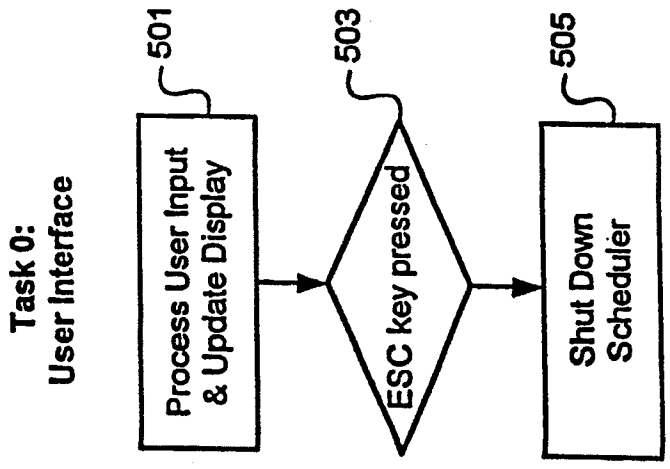


Figure 5A

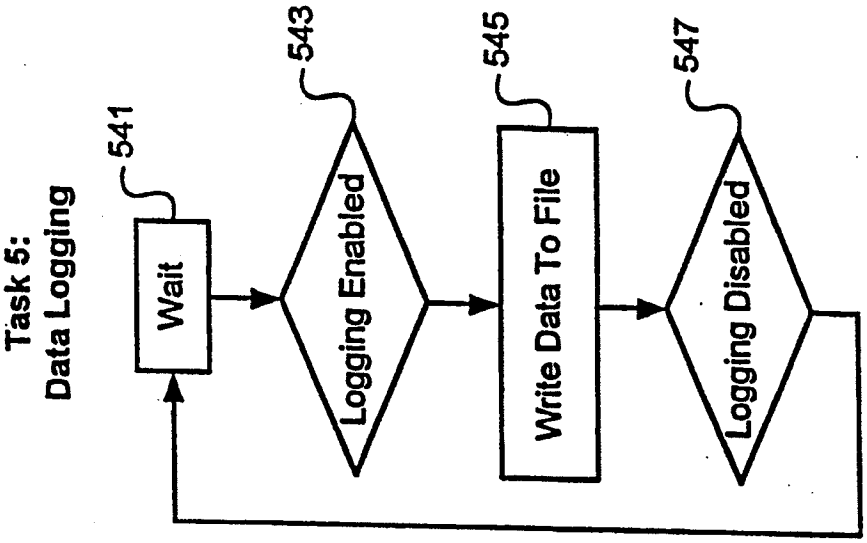


Figure 5F

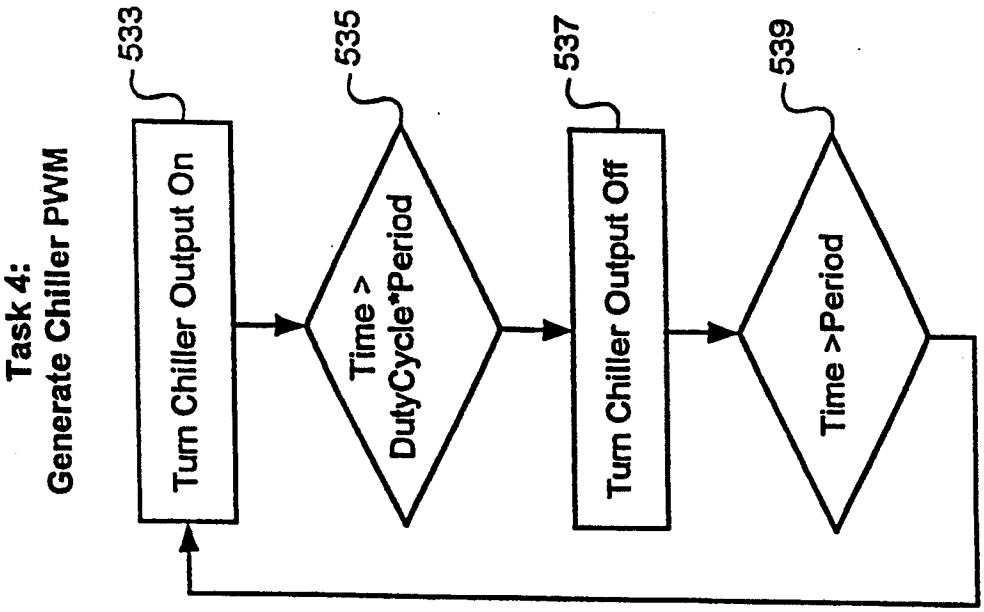


Figure 5E

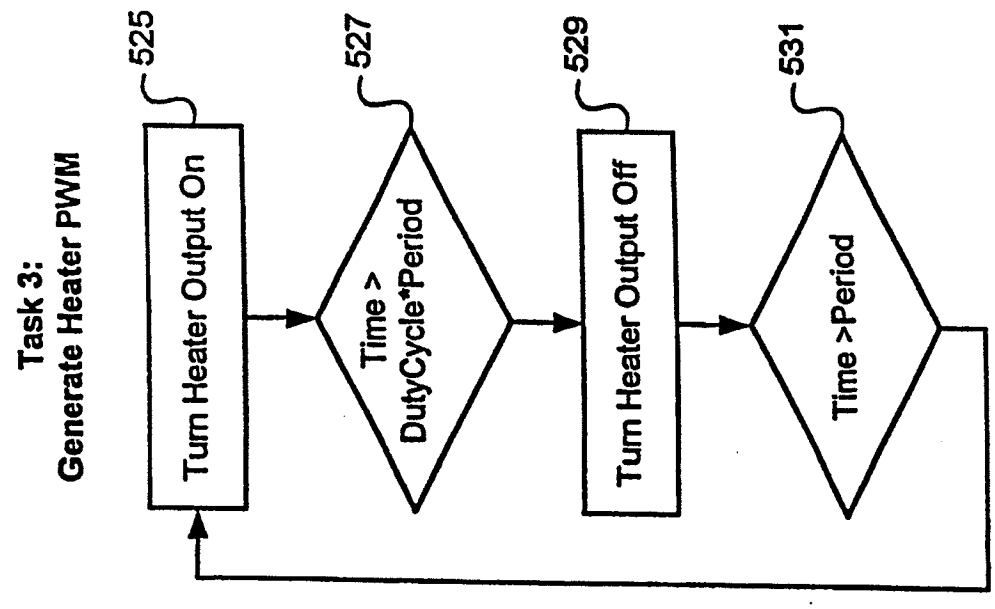


Figure 5D

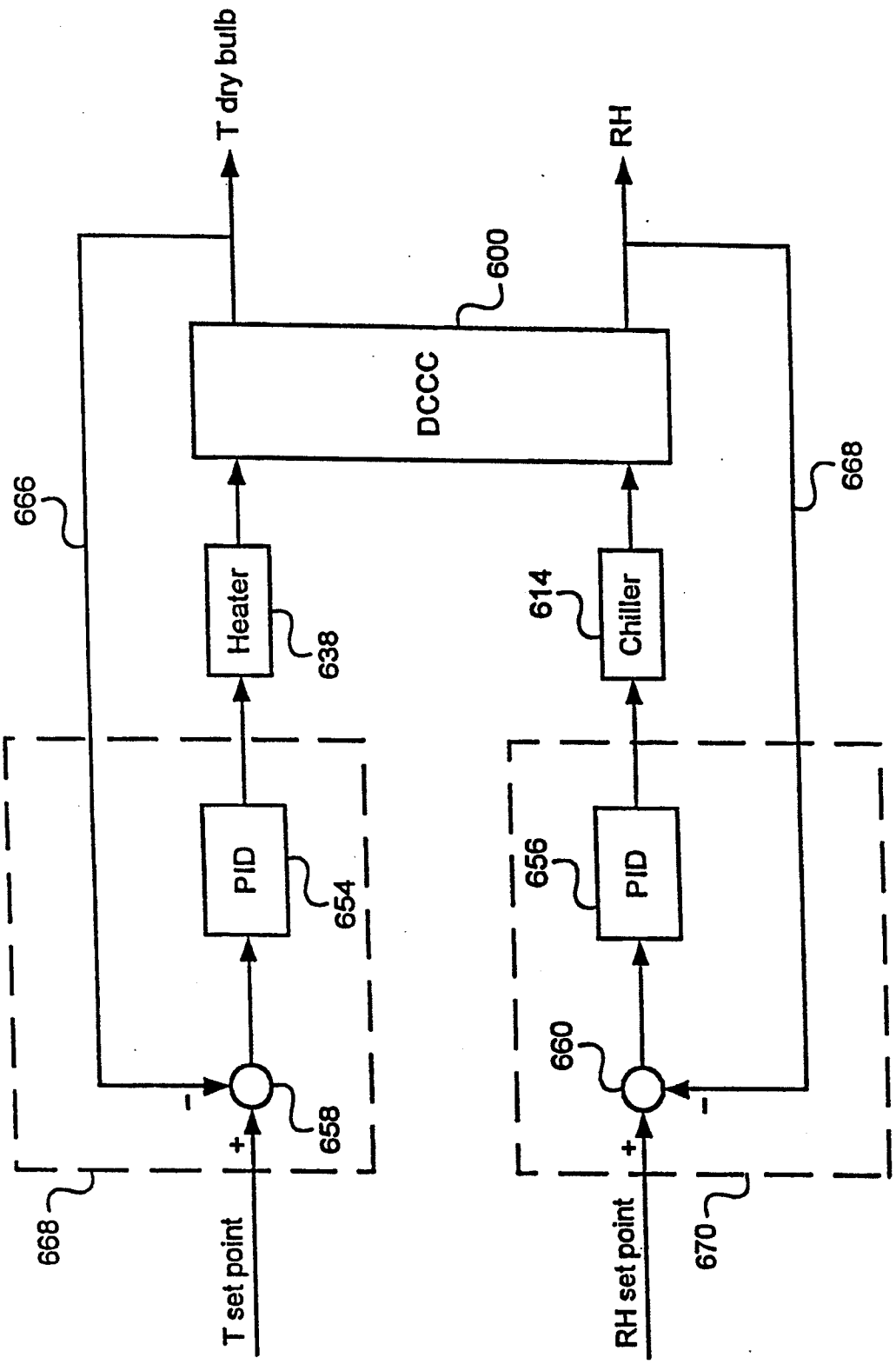

T dry bulb
RH
600
DCCC
666
668
Heater
638
614
Chiller
PID
654
656
PID
658
660
+
-
+
-
668
670
T set point
RH set point

Figure 6

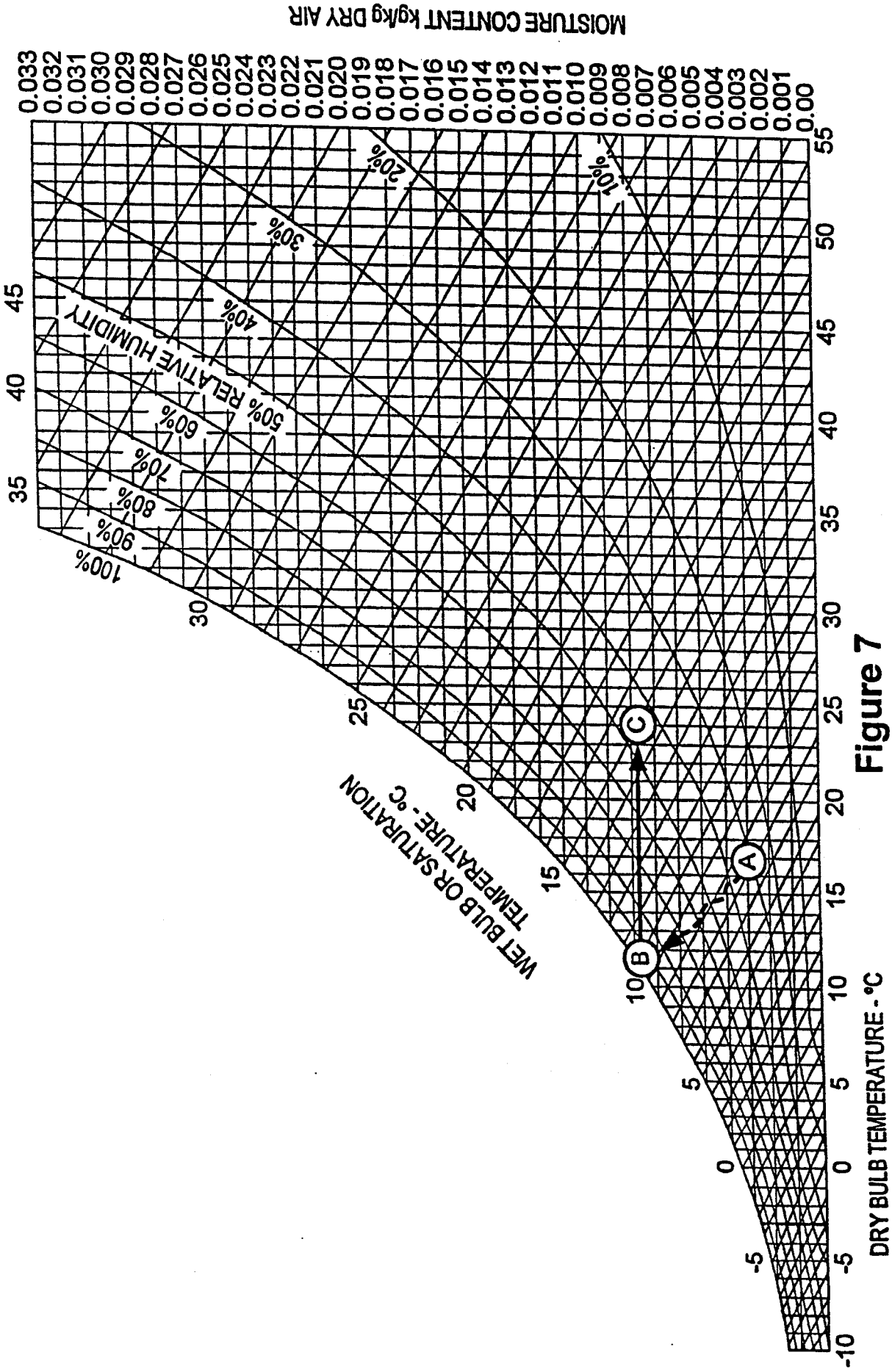

MOISTURE CONTENT kg/kg DRY AIR
0.033
0.032
0.031
0.030
0.029
0.028
0.027
0.026
0.025
0.024
0.023
0.022
0.021
0.020
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.010
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.00
10%
20%
30%
40%
50% RELATIVE HUMIDITY
60%
70%
80%
90%
100%
WET BULB OR SATURATION TEMPERATURE - °C
DRY BULB TEMPERATURE - °C
55
50
45
40
35
30
25
20
15
10
5
0
-5
-10
A
B
C

Figure 7

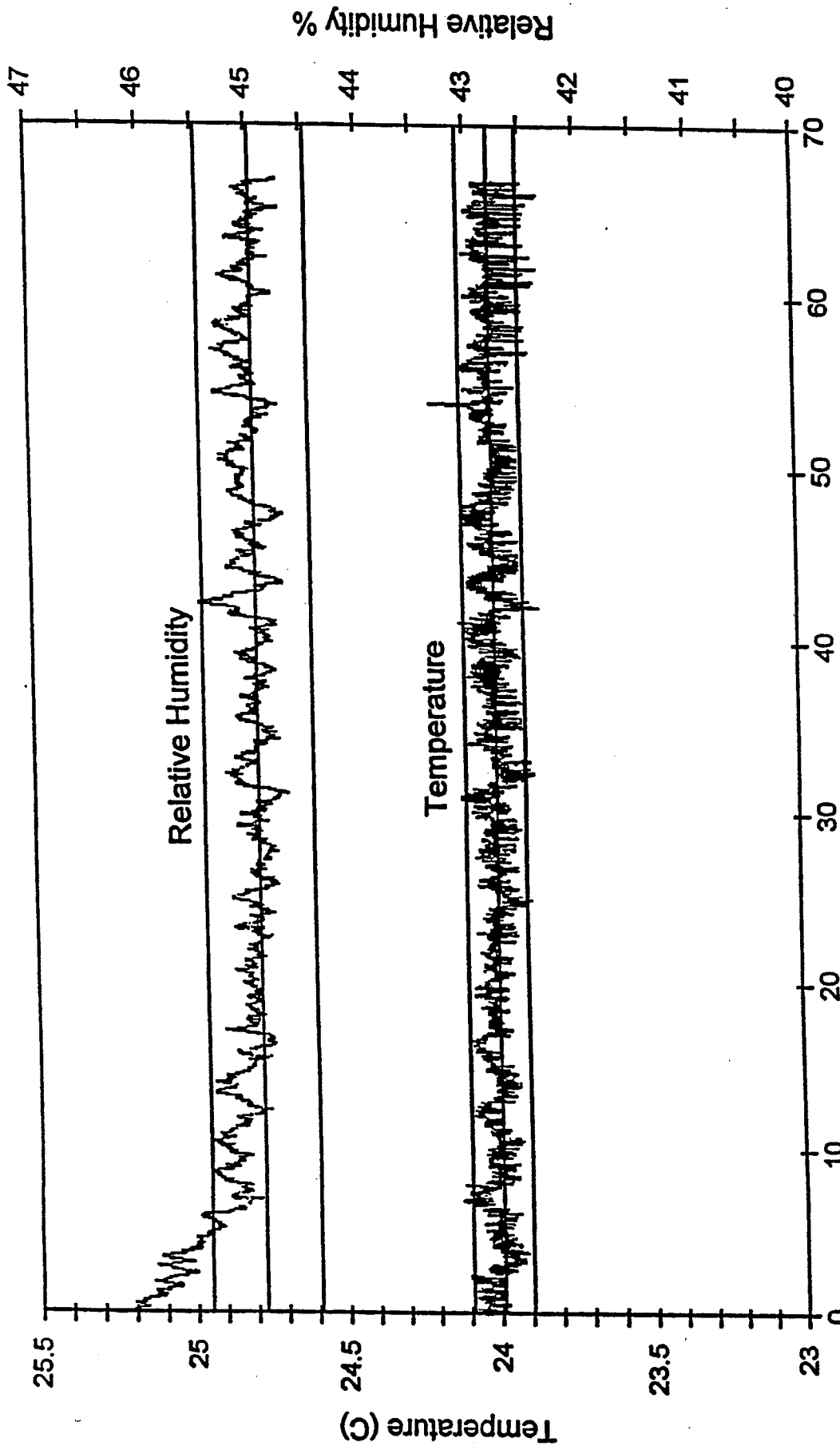

Relative Humidity %
47
46
45
44
43
42
41
40
Temperature (C)
25.5
25
24.5
24
23.5
23
Relative Humidity
Temperature
0
10
20
30
40
50
60
70
Time (min)

Figure 9