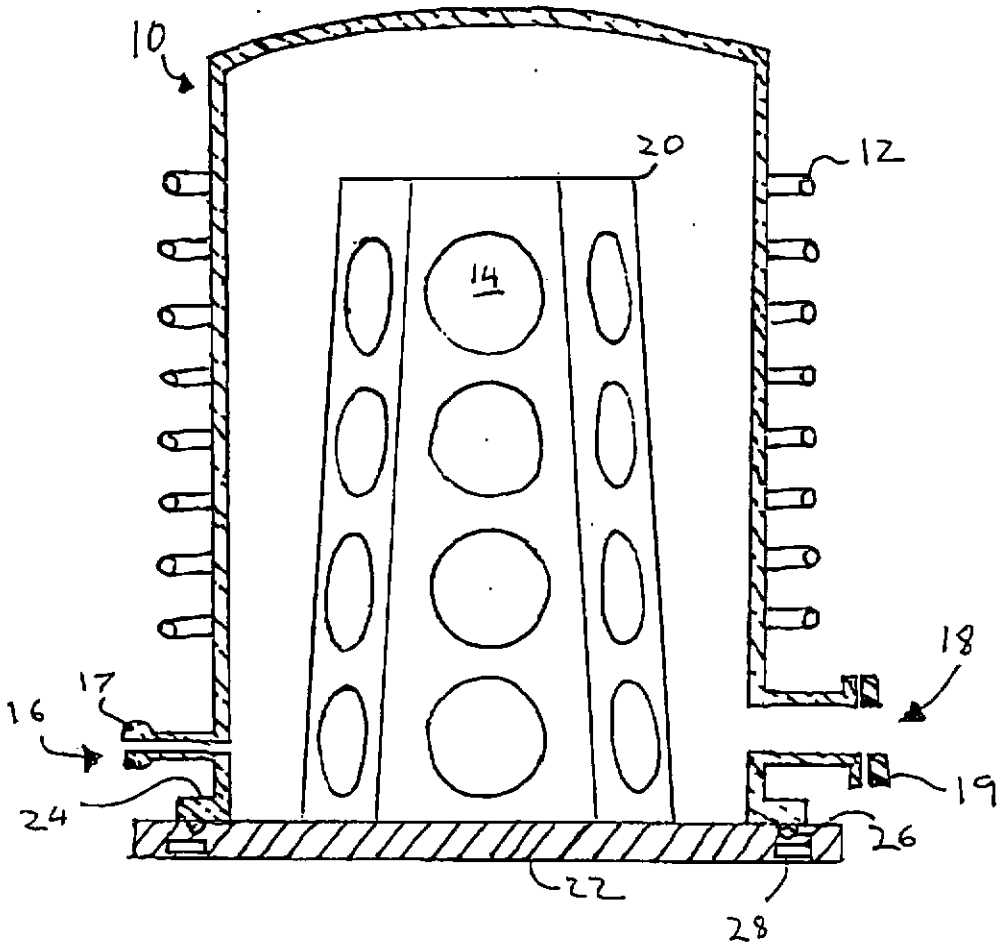


FIG. 1 (PRIOR ART)

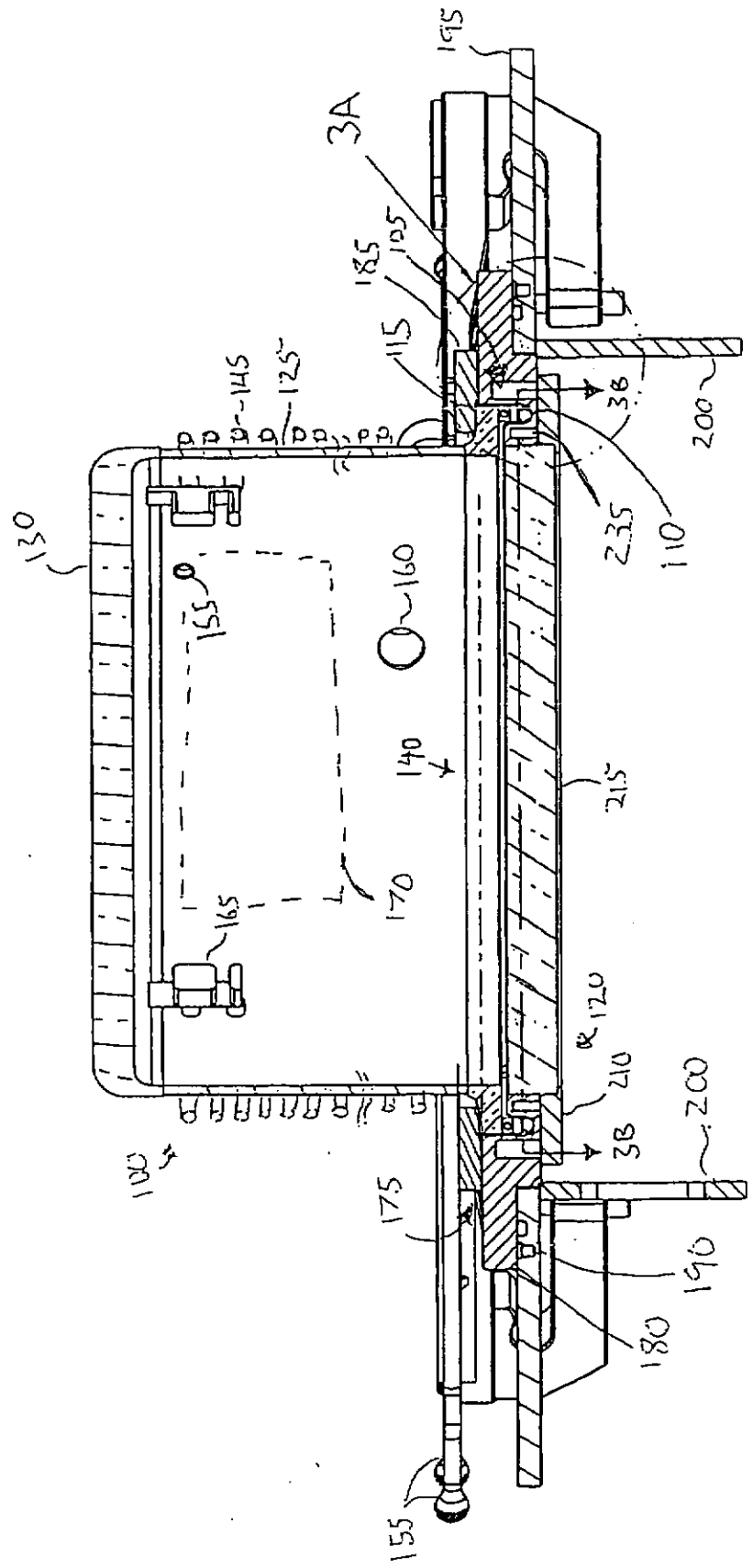

195
3A
185
105
115
145
125
38
200
235
110
130
155
160
140
215
170
165
120
210
38
200
175
190
180
155

FIG. 2

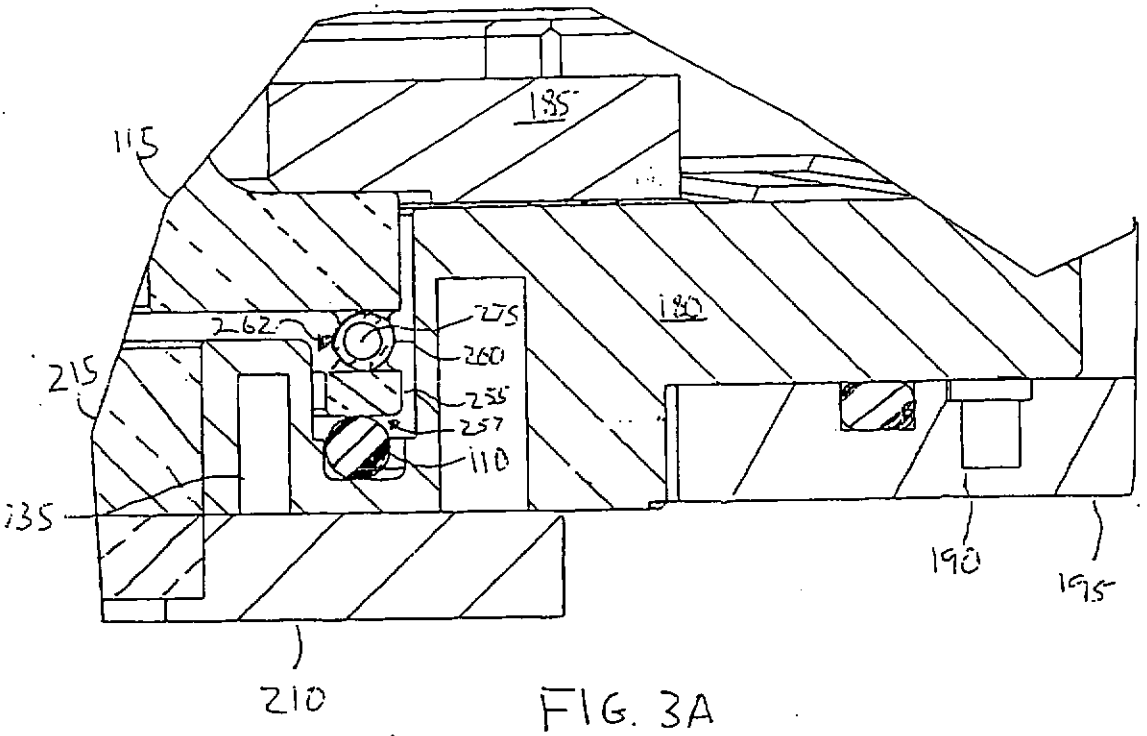

185
115
180
262
275
260
215
255
257
110
135
190
195
210

FIG. 3A

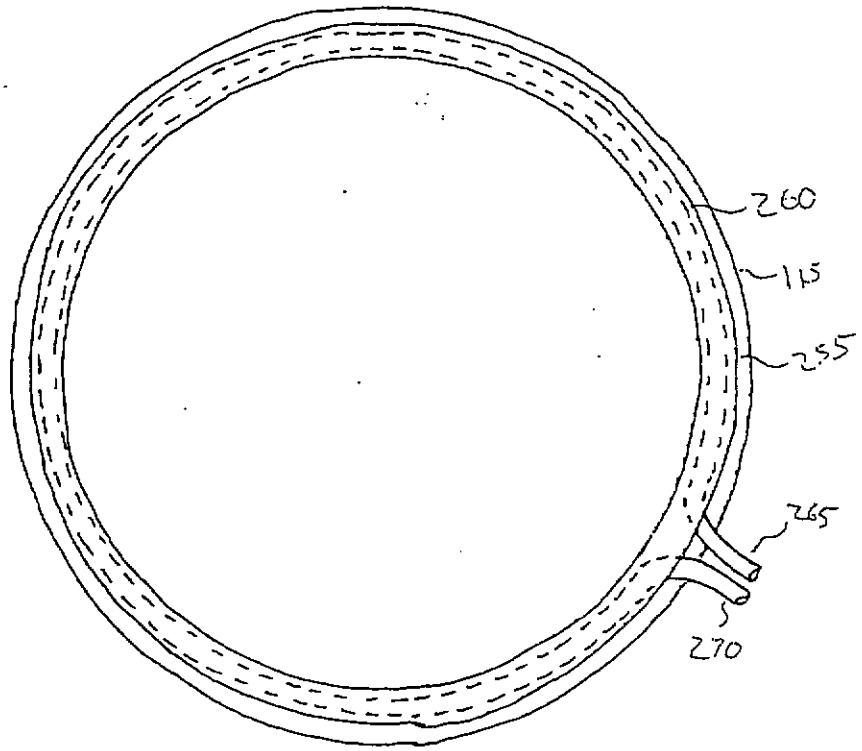

260
115
255
265
270

FIG. 3B

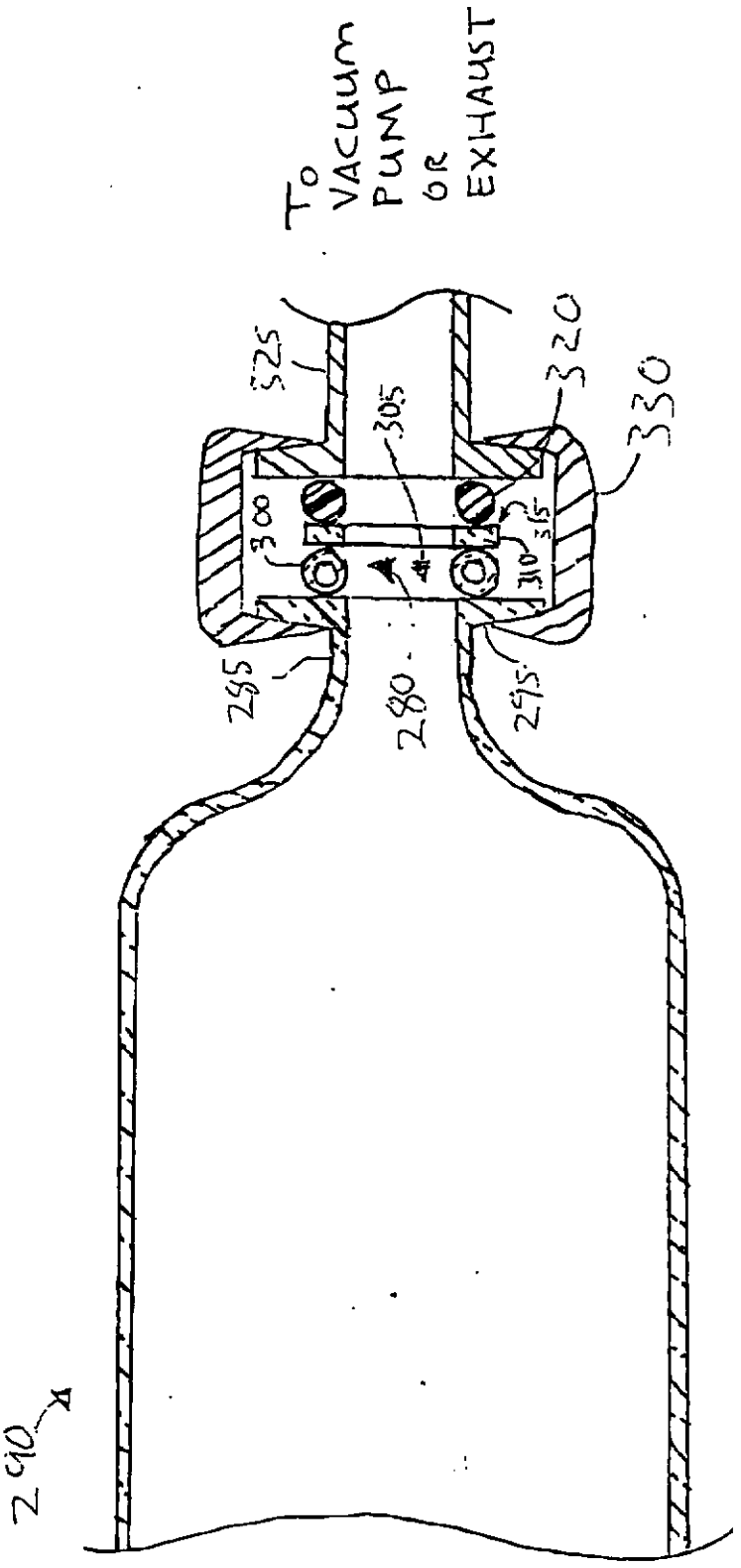

To
VACUUM
PUMP
OR
EXHAUST
325
320
330
305
300
315
310
295
280
275
240

FIG. 4

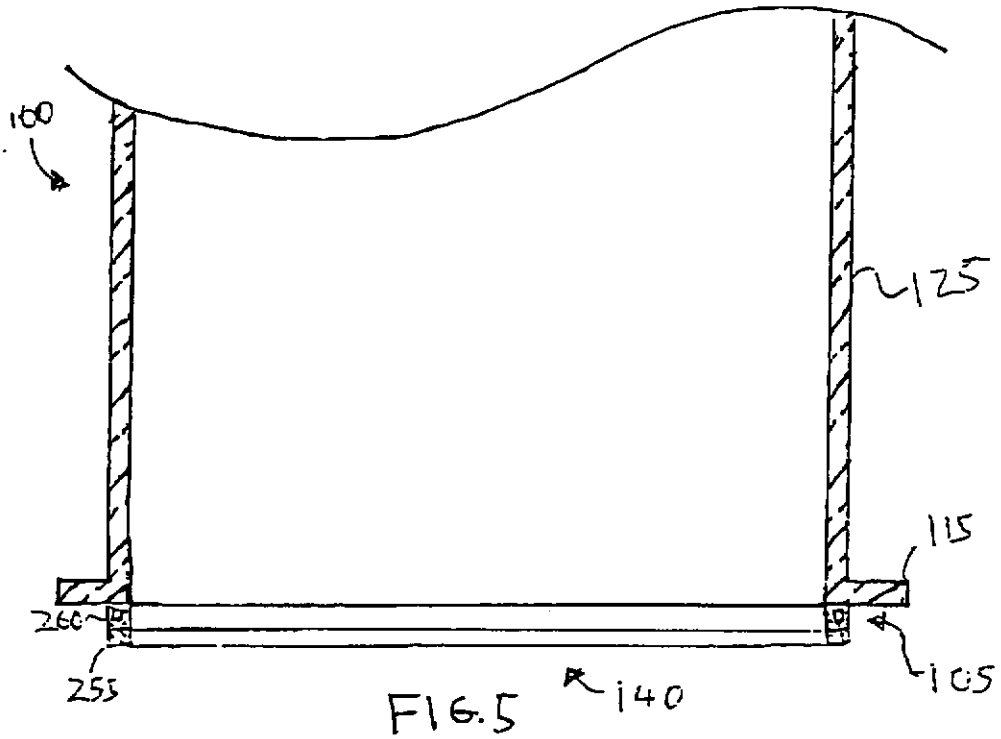


FIG. 5

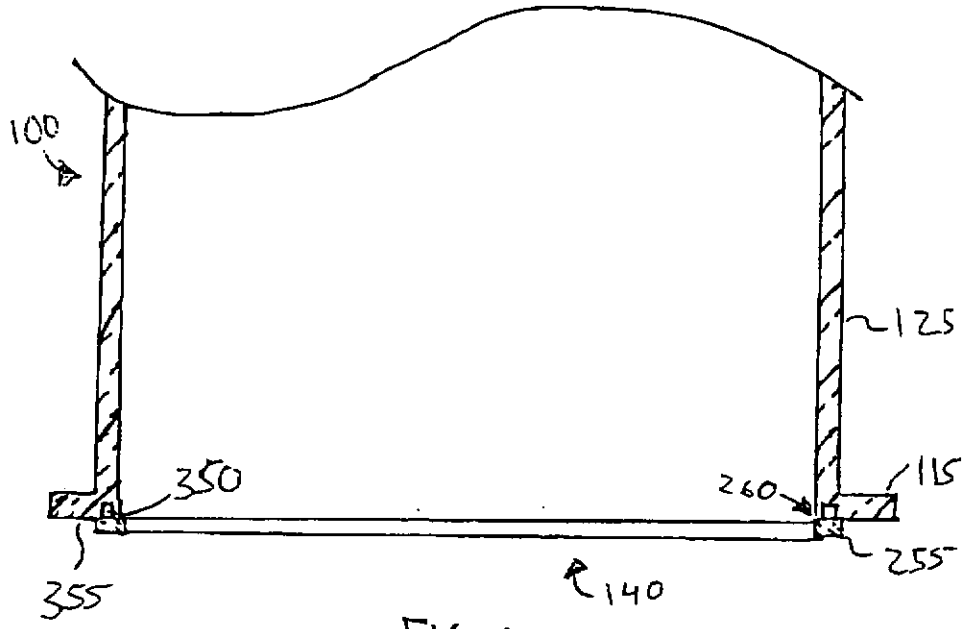


FIG. 6

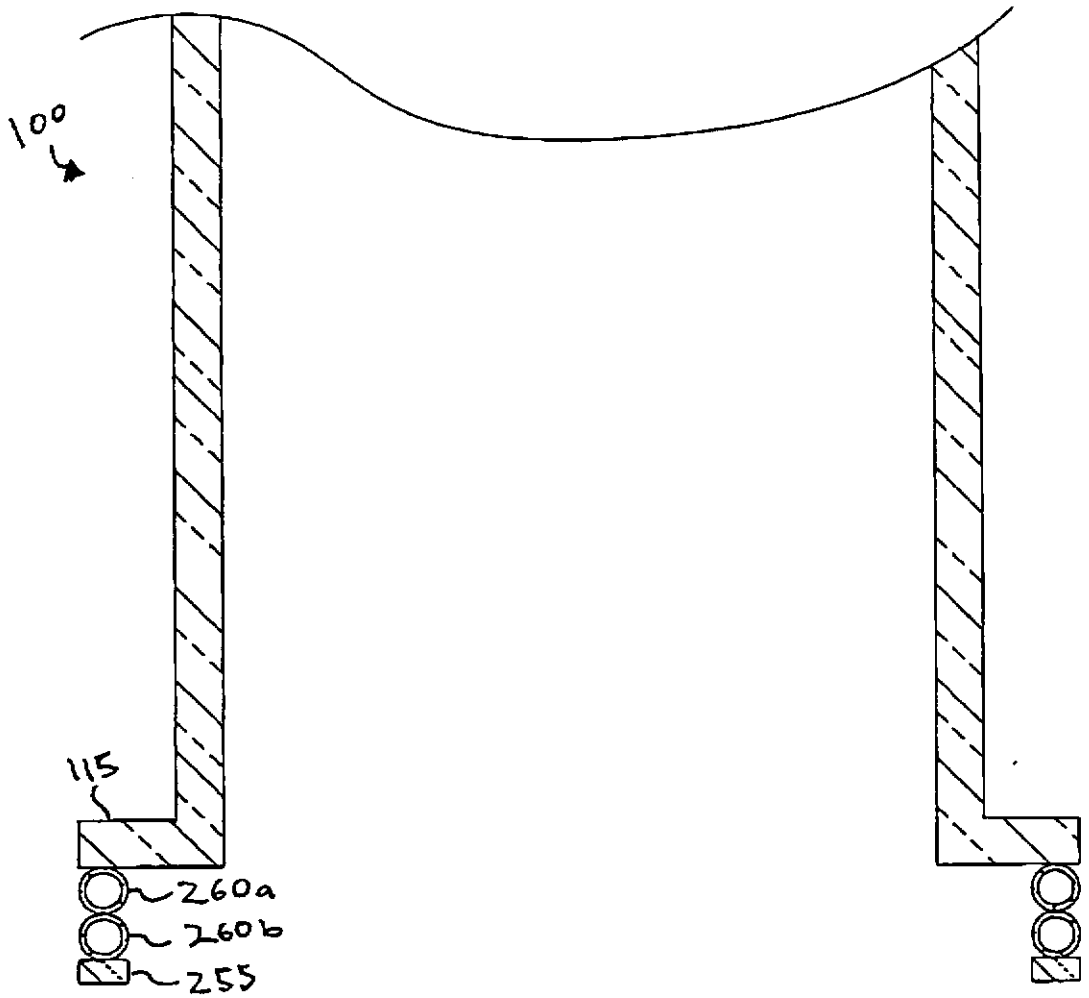


FIG. 7

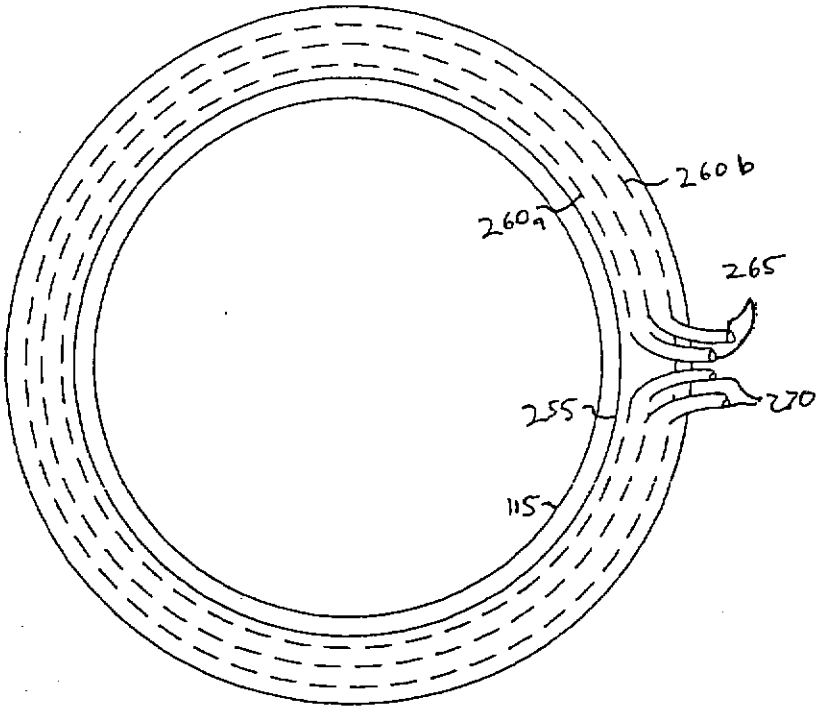


FIG. 8

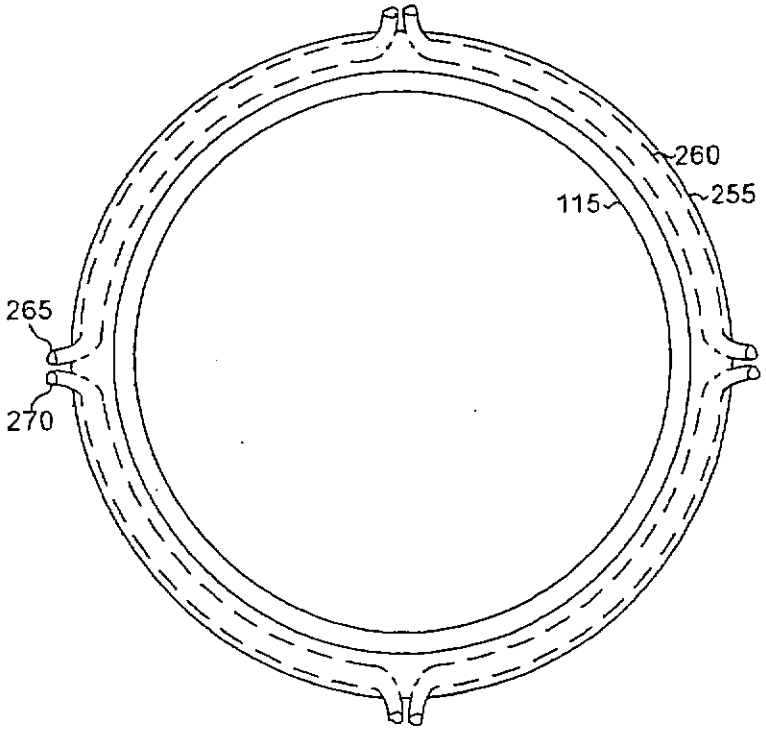


FIG. 9

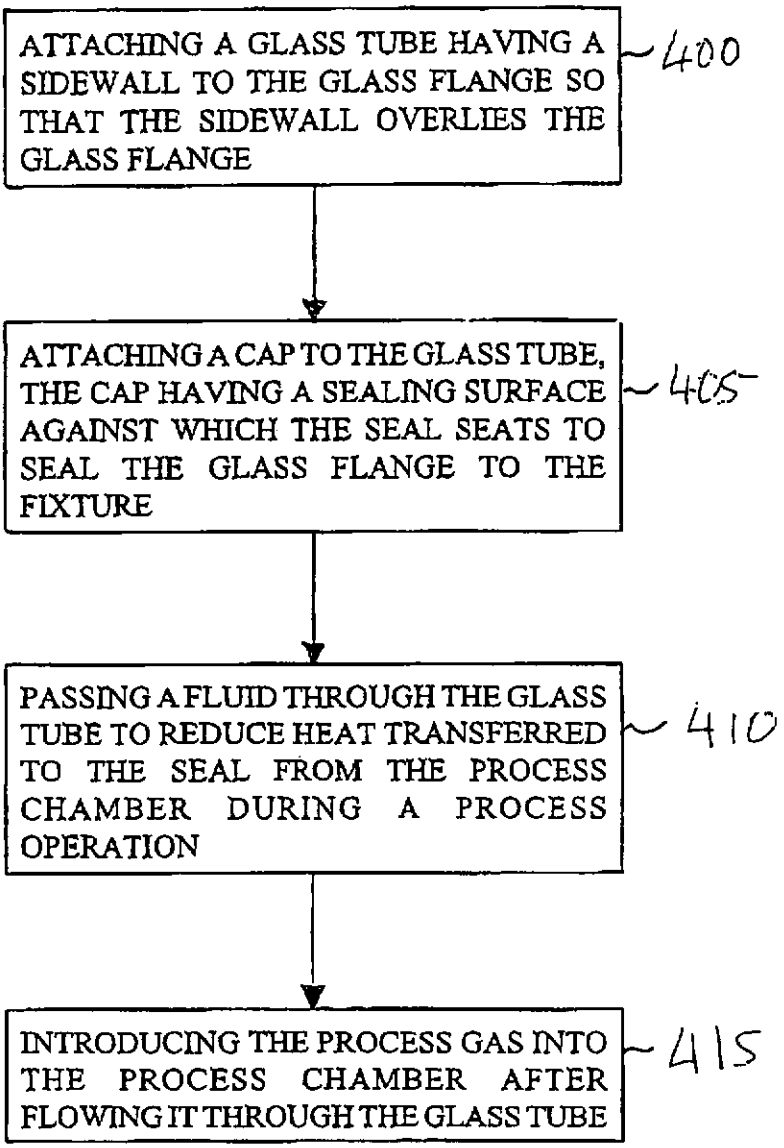

ATTACHING A GLASS TUBE HAVING A SIDEWALL TO THE GLASS FLANGE SO THAT THE SIDEWALL OVERLIES THE GLASS FLANGE
400
ATTACHING A CAP TO THE GLASS TUBE, THE CAP HAVING A SEALING SURFACE AGAINST WHICH THE SEAL SEATS TO SEAL THE GLASS FLANGE TO THE FIXTURE
405
PASSING A FLUID THROUGH THE GLASS TUBE TO REDUCE HEAT TRANSFERRED TO THE SEAL FROM THE PROCESS CHAMBER DURING A PROCESS OPERATION
410
INTRODUCING THE PROCESS GAS INTO THE PROCESS CHAMBER AFTER FLOWING IT THROUGH THE GLASS TUBE
415

FIG. 1D

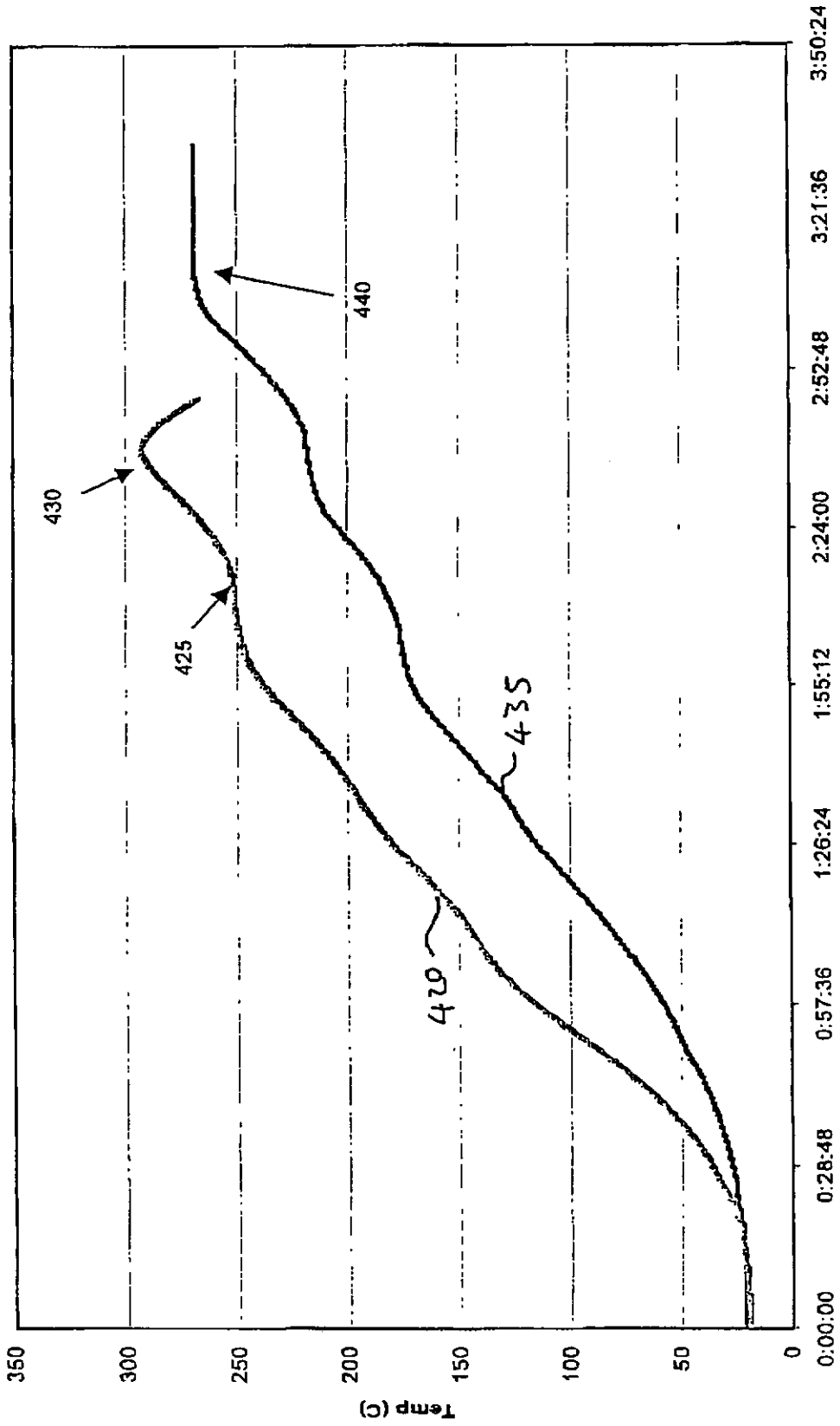

Temp (C)
350
300
250
200
150
100
50
0
0:00:00
0:28:48
0:57:36
1:26:24
1:55:12
2:24:00
2:52:48
3:21:36
3:50:24
Time
430
425
440
435
420

FIG. 11