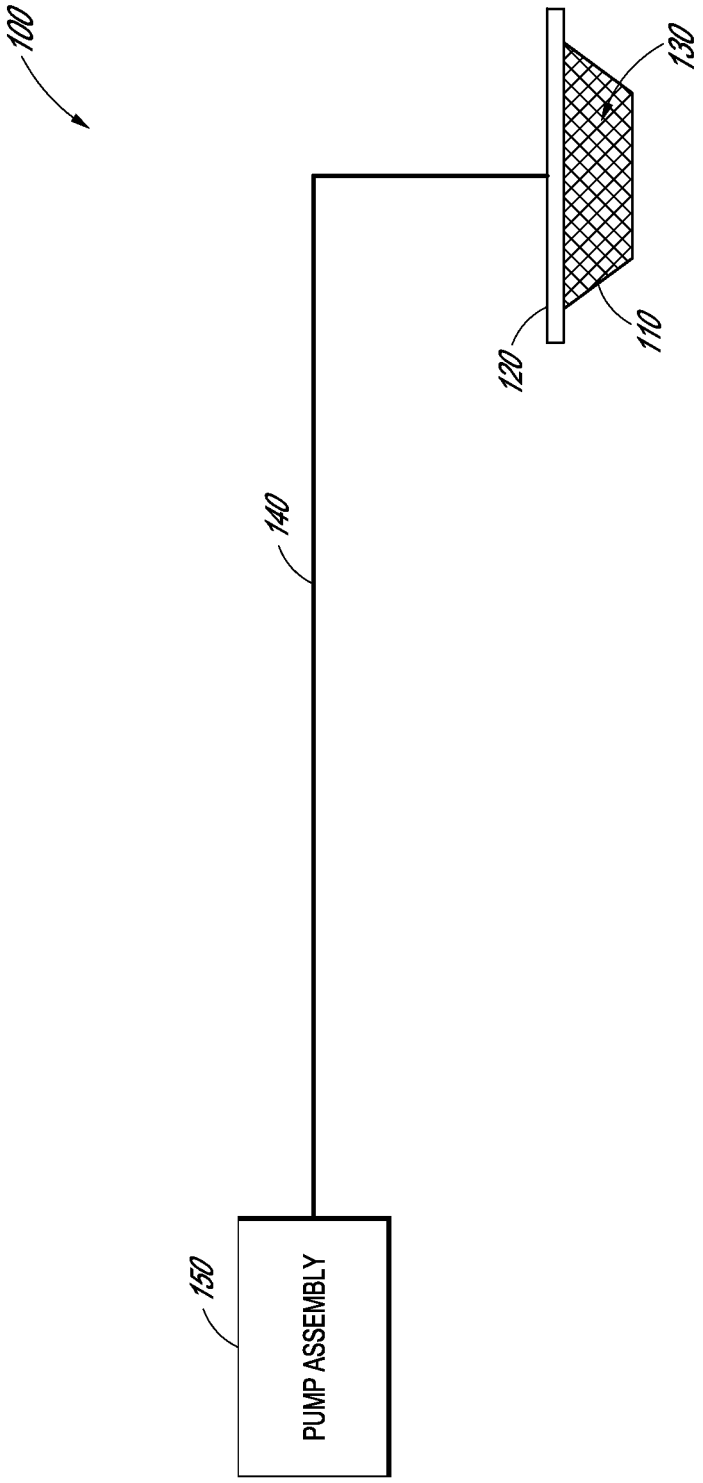


FIG. 1

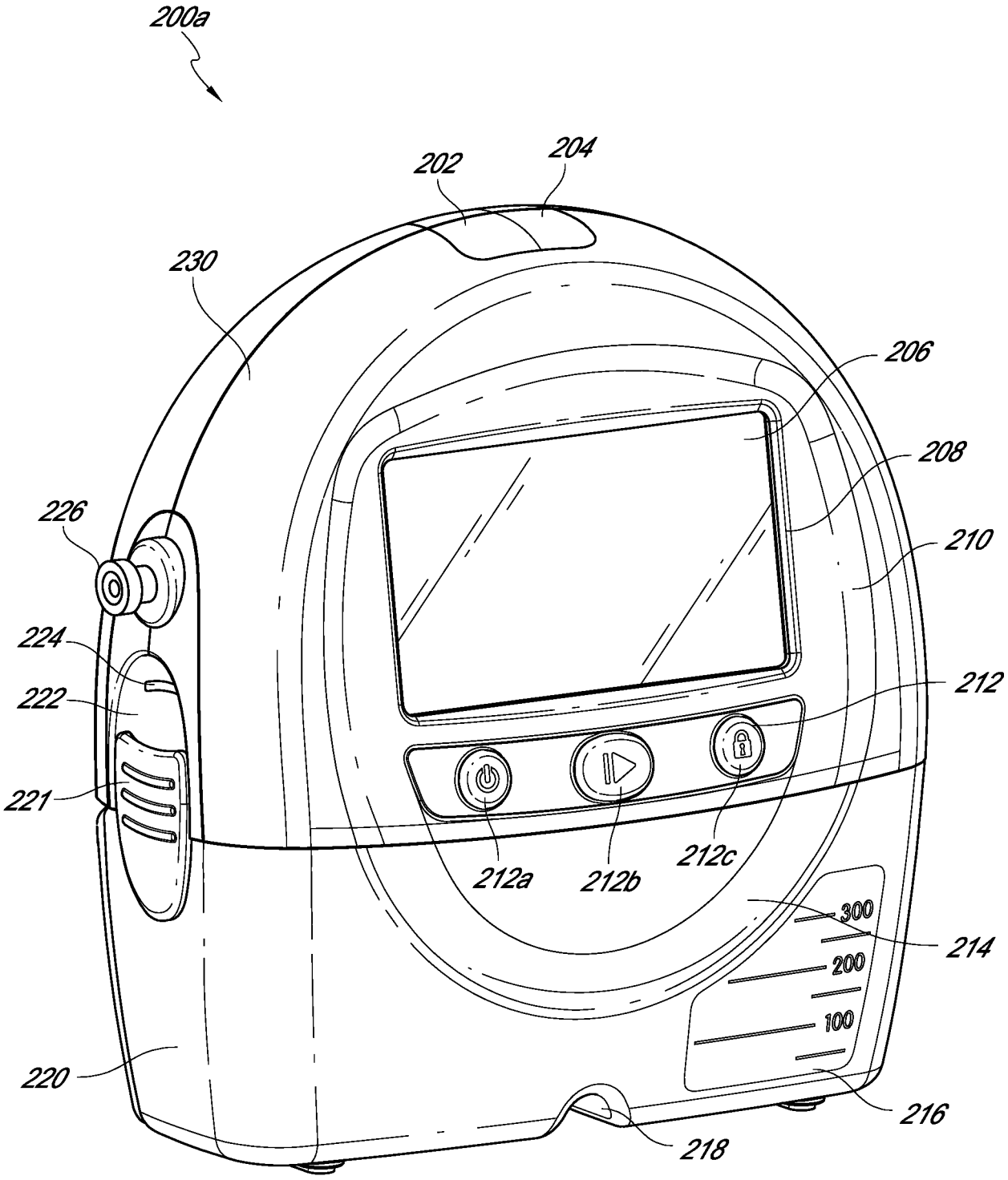

200a
202
204
230
206
208
226
210
224
212
222
221
212a
212b
212c
300
214
200
100
220
216
218

FIG. 2A

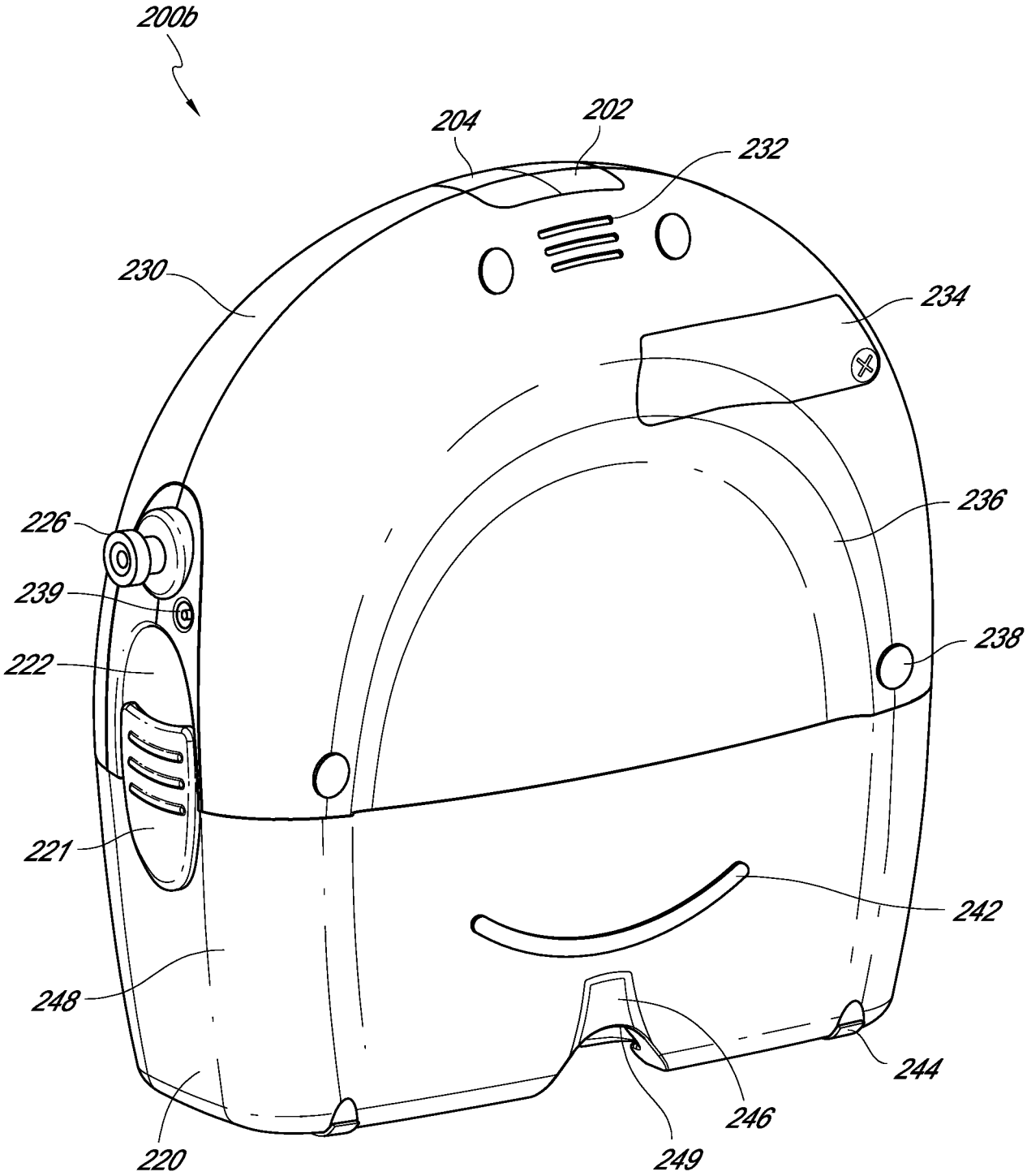

200b
204
202
232
230
234
226
236
239
238
222
221
242
248
244
246
220
249

FIG. 2B

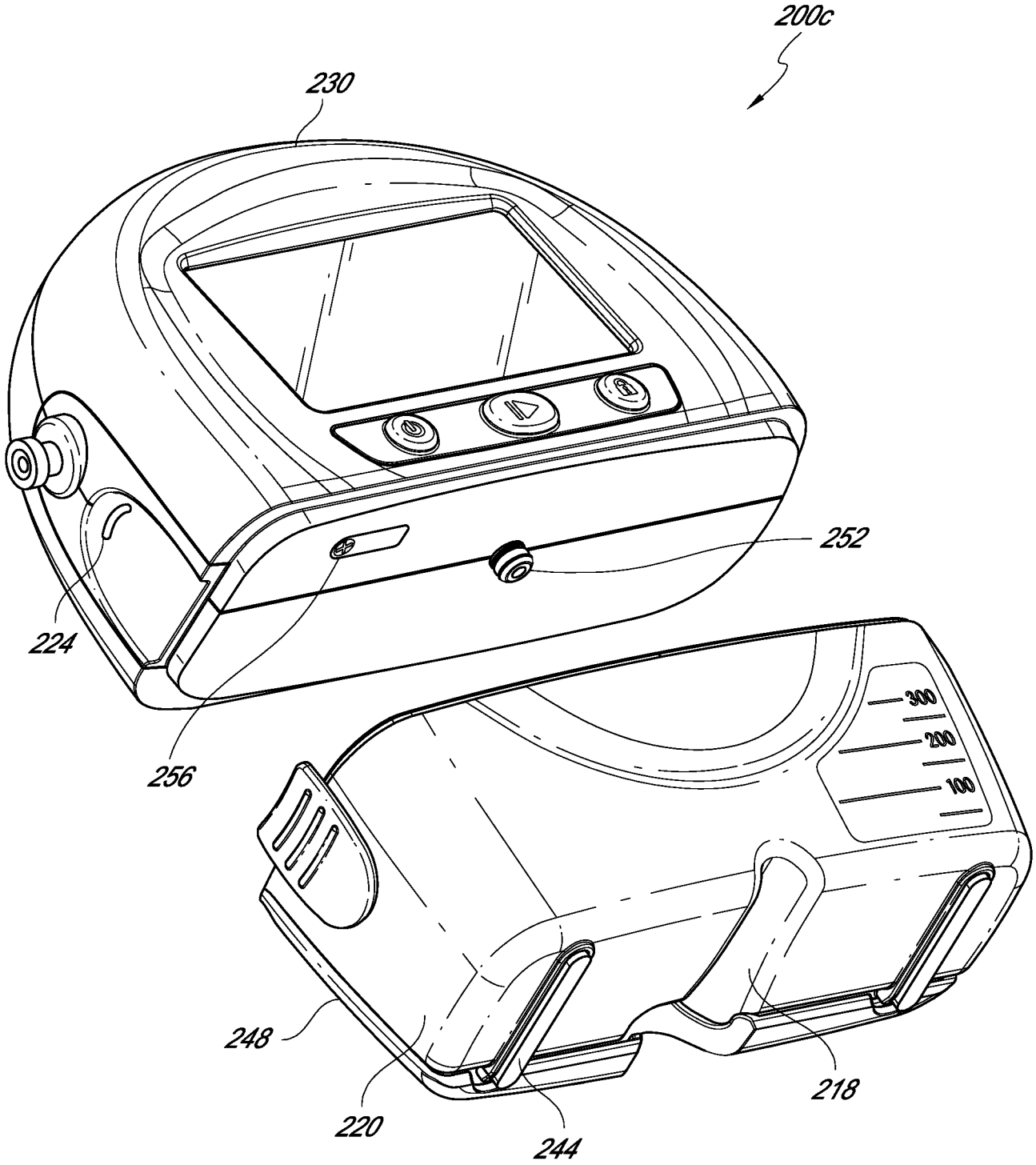


FIG. 2C

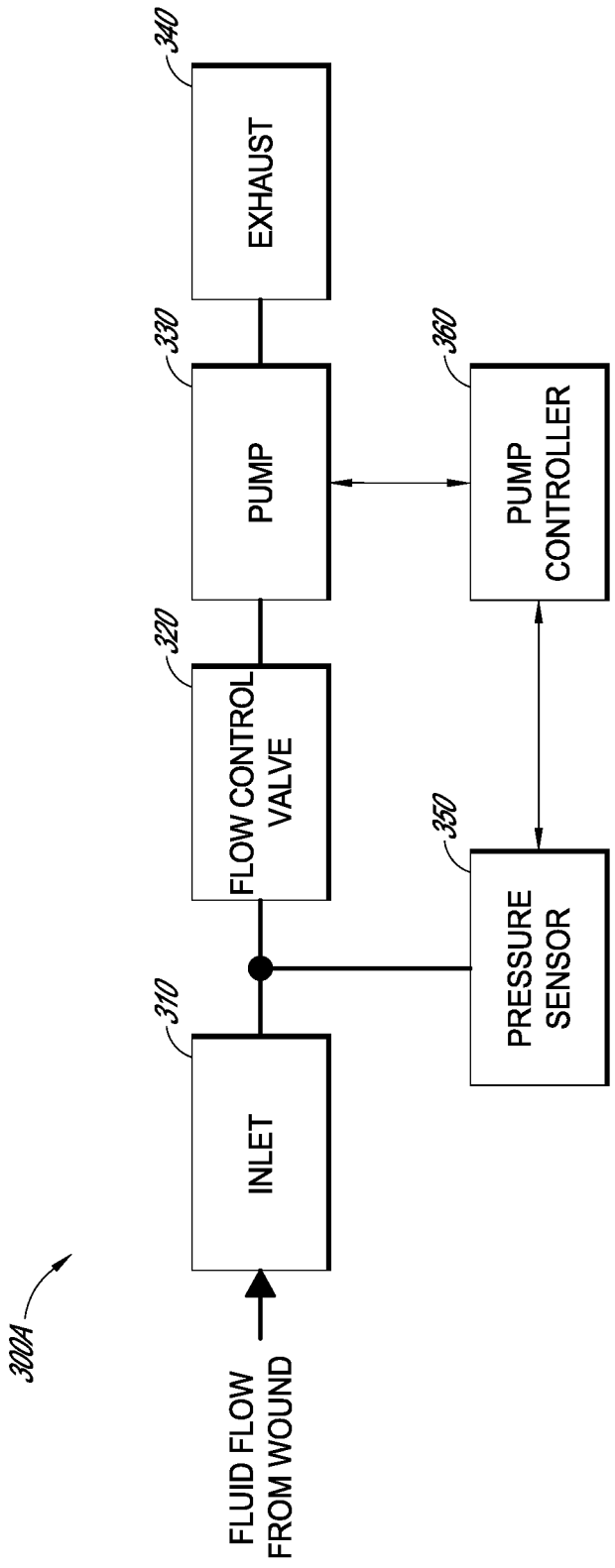

300A
FLUID FLOW FROM WOUND
310
INLET
320
FLOW CONTROL VALVE
330
PUMP
340
EXHAUST
350
PRESSURE SENSOR
360
PUMP CONTROLLER

FIG. 3A

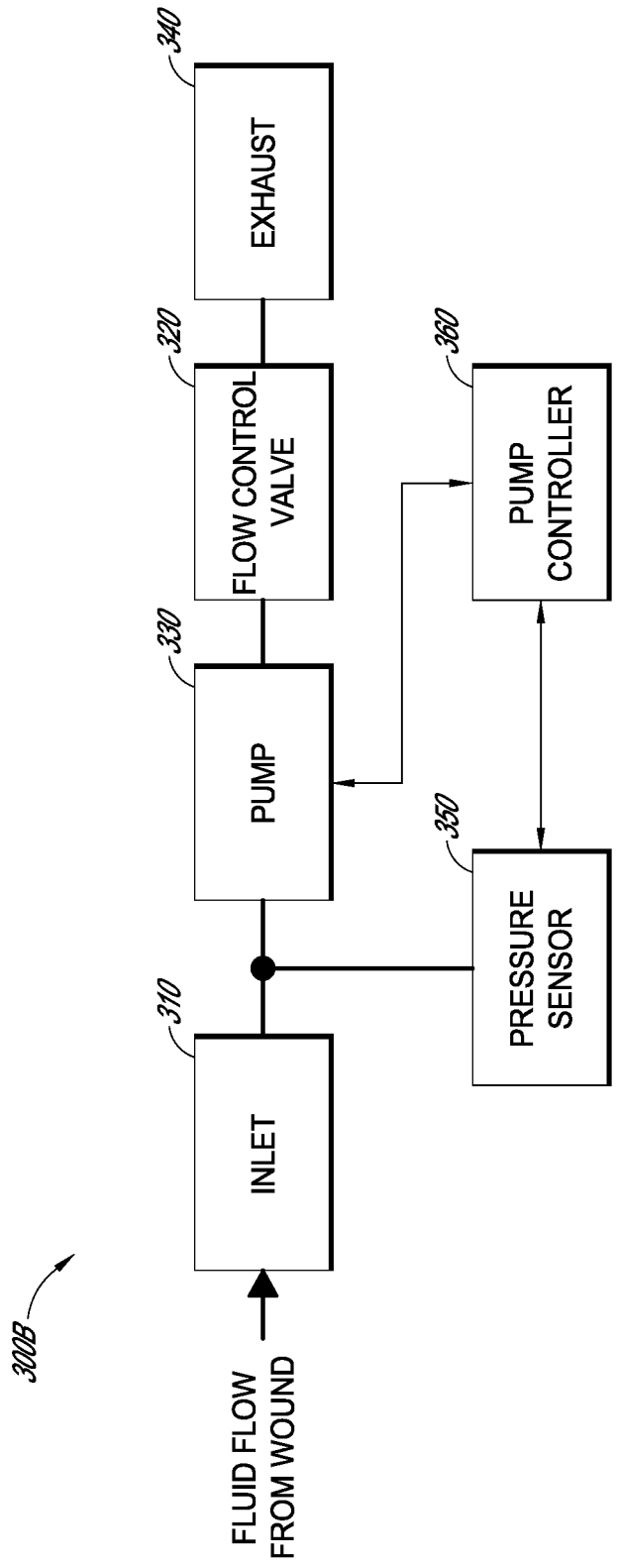

300B
FLUID FLOW FROM WOUND
310
INLET
330
PUMP
320
FLOW CONTROL VALVE
340
EXHAUST
350
PRESSURE SENSOR
360
PUMP CONTROLLER

FIG. 3B

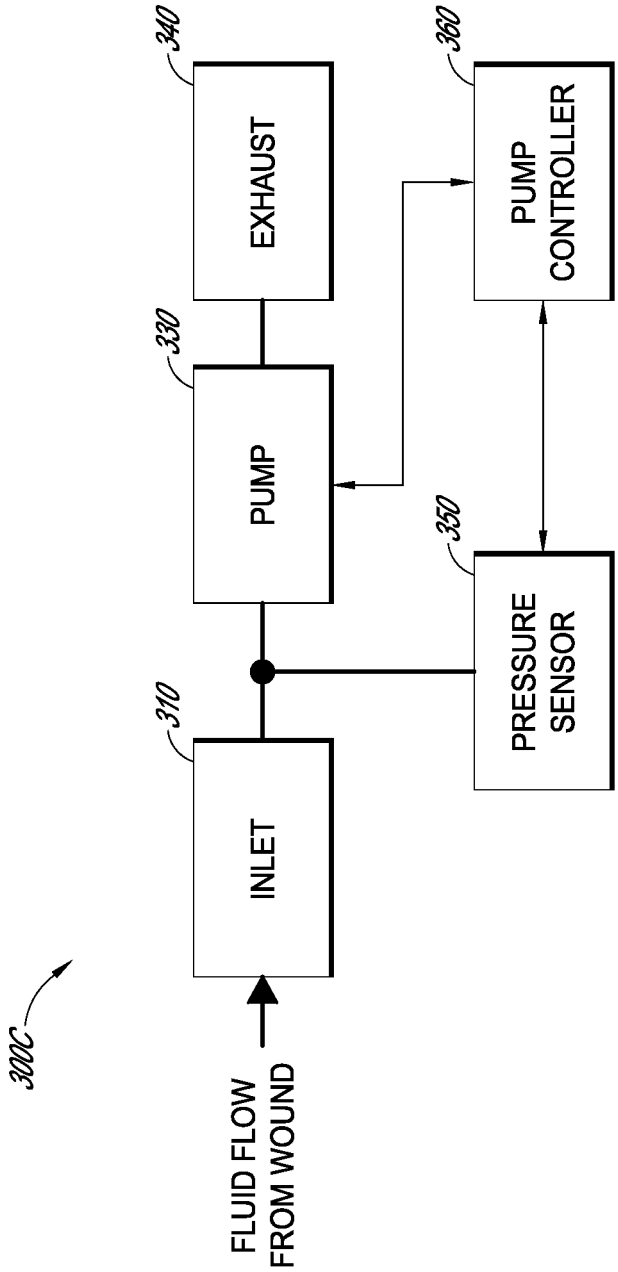

300C
FLUID FLOW FROM WOUND
310
INLET
330
PUMP
340
EXHAUST
350
PRESSURE SENSOR
360
PUMP CONTROLLER

FIG. 3C

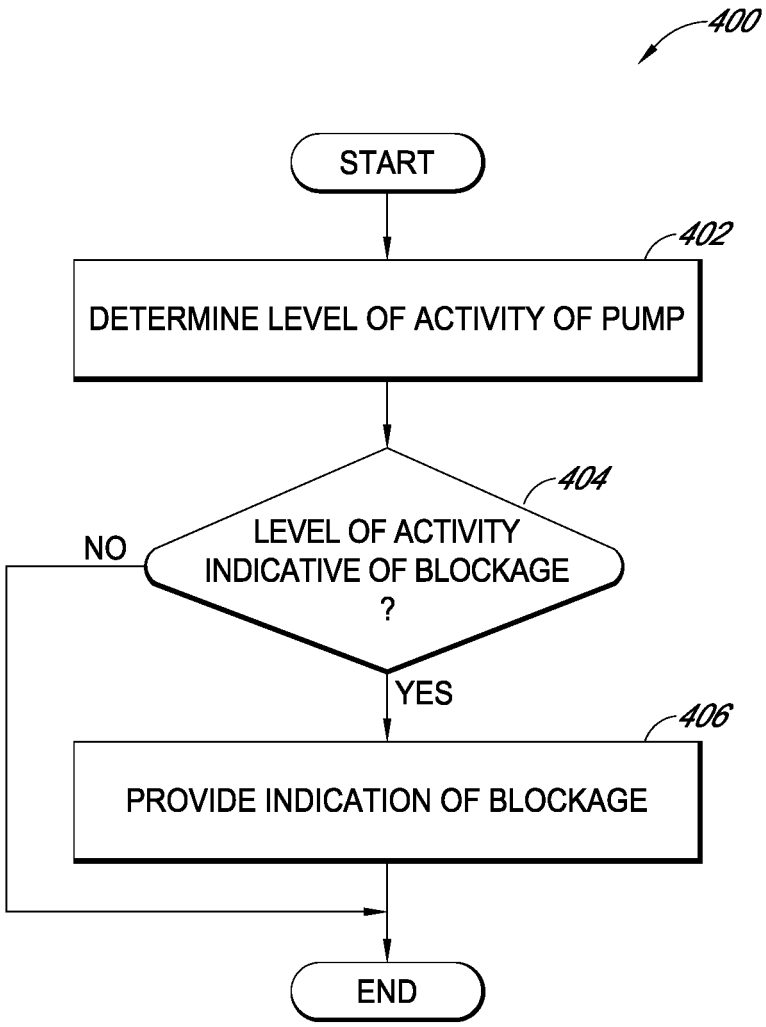

400
START
402
DETERMINE LEVEL OF ACTIVITY OF PUMP
404
LEVEL OF ACTIVITY INDICATIVE OF BLOCKAGE ?
NO
YES
406
PROVIDE INDICATION OF BLOCKAGE
END

FIG. 4

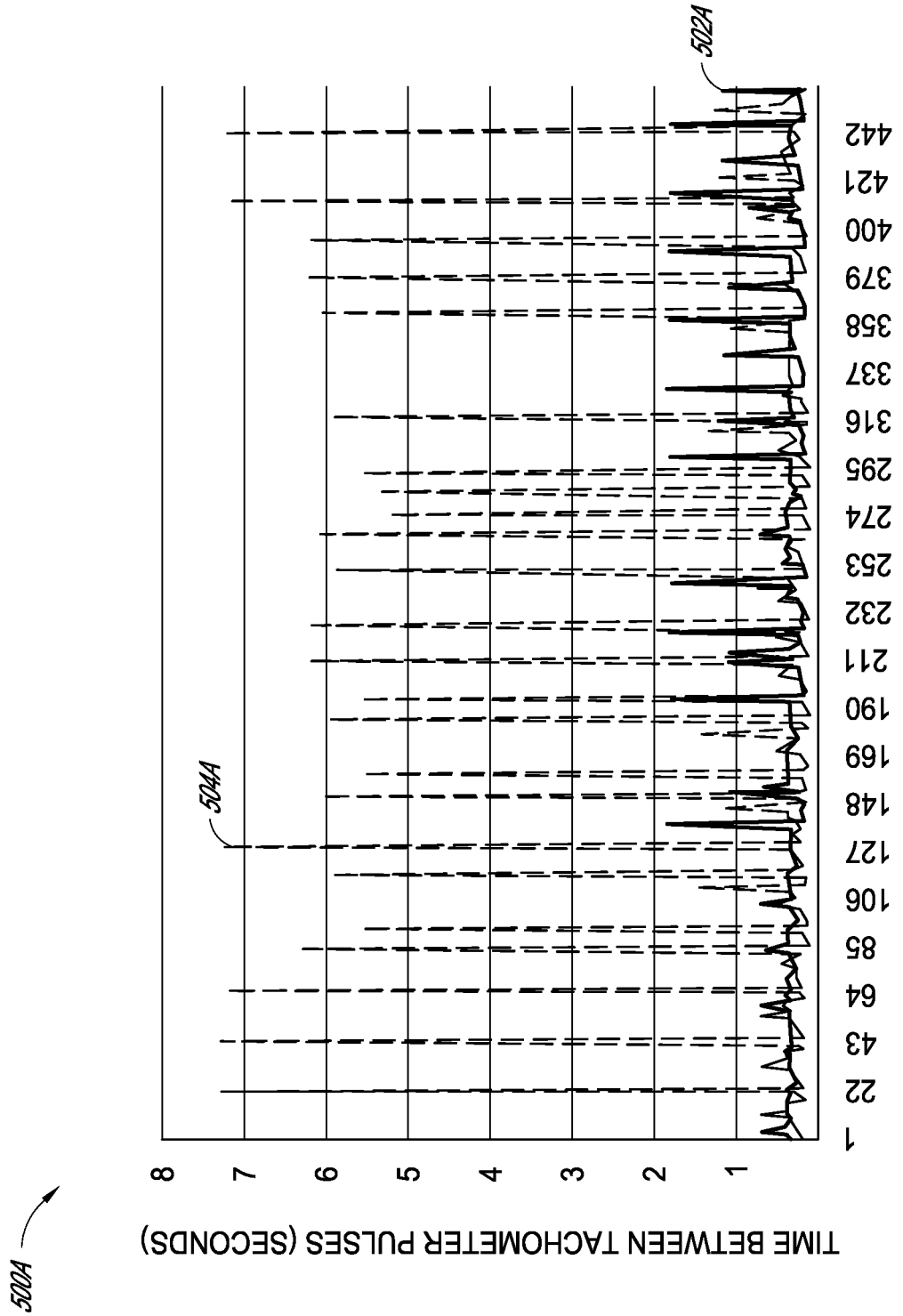

500A
TIME BETWEEN TACHOMETER PULSES (SECONDS)
8
7
6
5
4
3
2
1
502A
504A
TACHOMETER PULSES
1
22
43
64
85
106
127
148
169
190
211
232
253
274
295
316
337
358
379
400
421
442

FIG. 5A

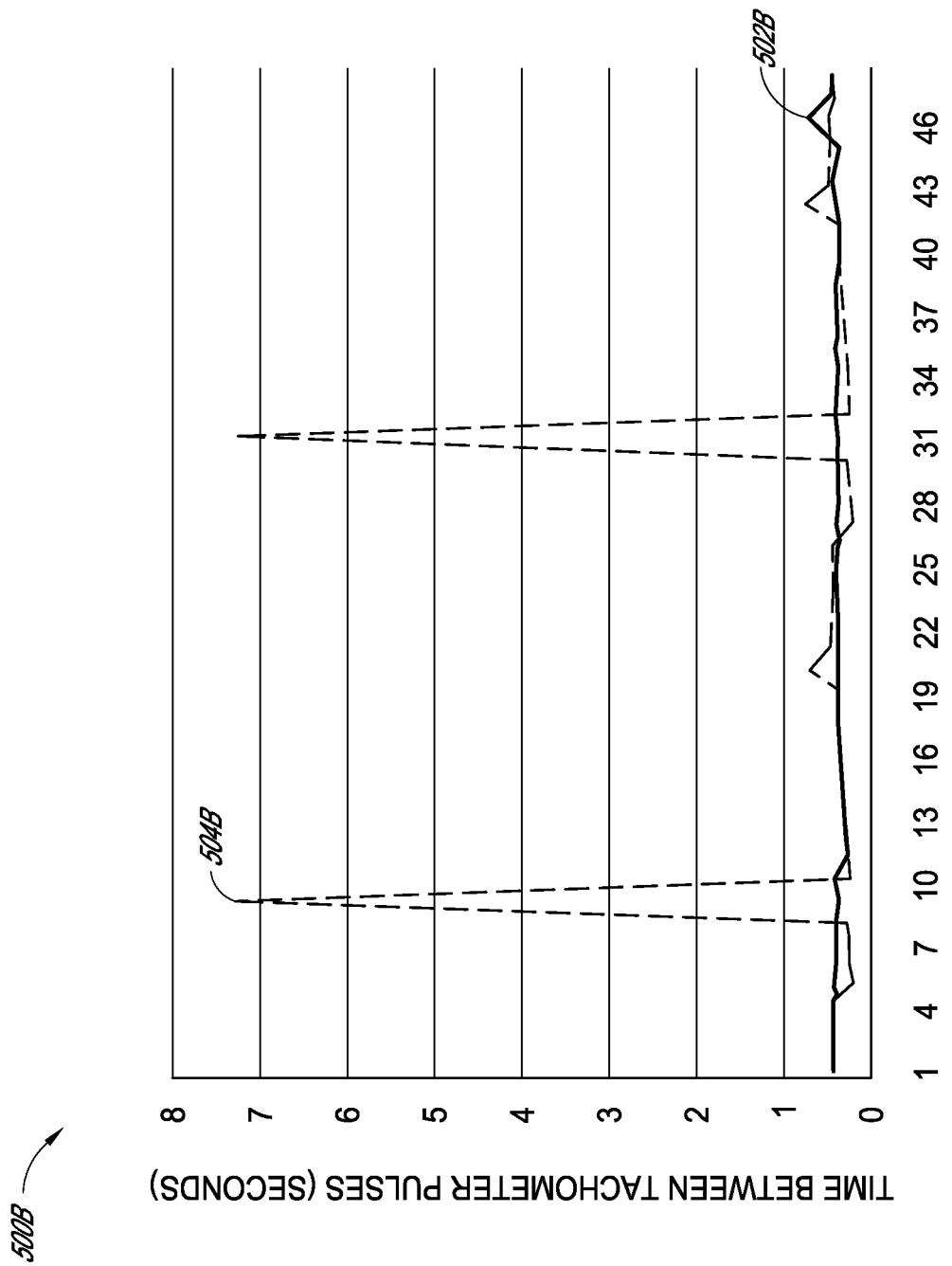

500B
TIME BETWEEN TACHOMETER PULSES (SECONDS)
0
1
2
3
4
5
6
7
8
1 4 7 10 13 16 19 22 25 28 31 34 37 40 43 46
TACHOMETER PULSES
502B
504B

FIG. 5B

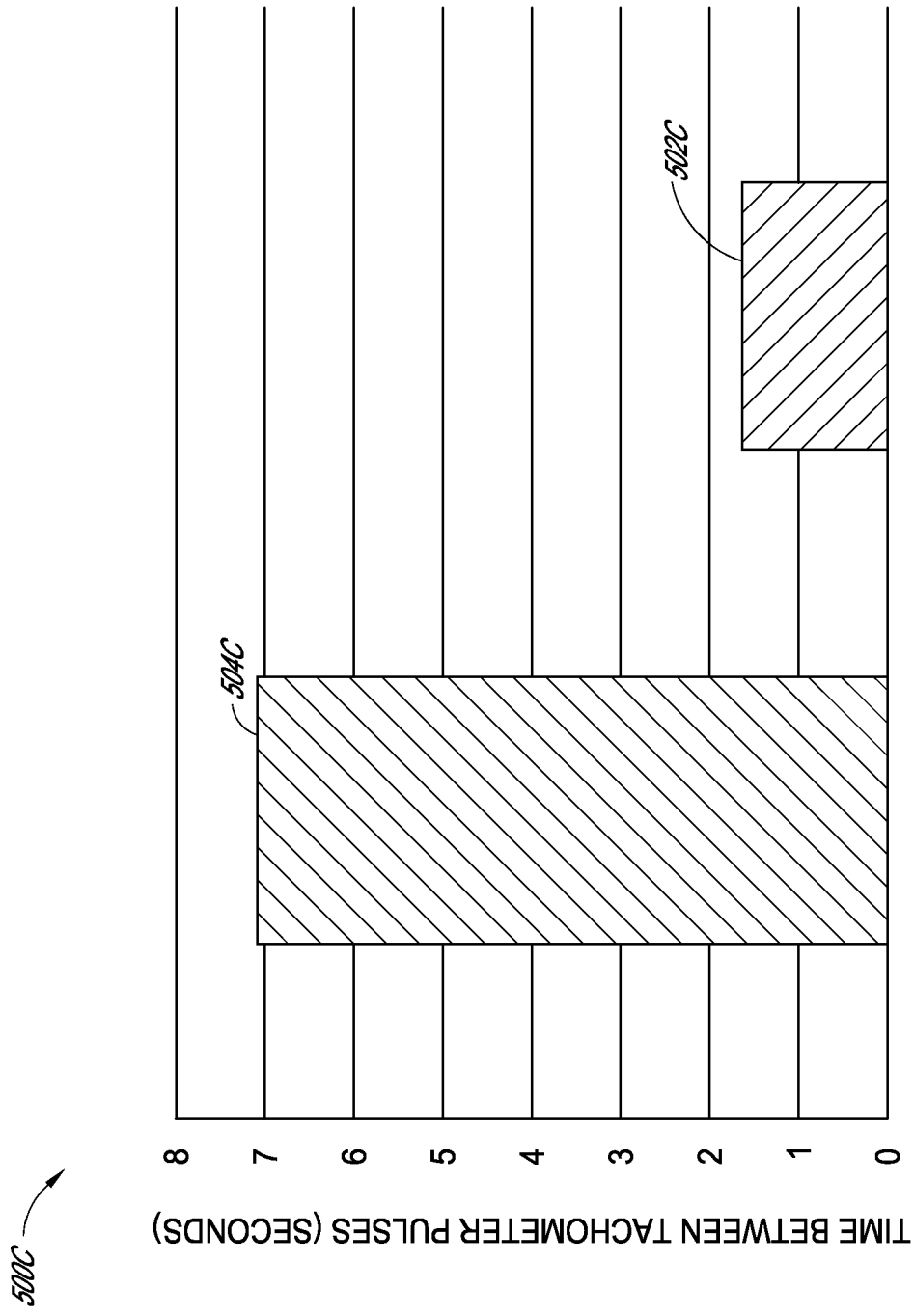

500C
TIME BETWEEN TACHOMETER PULSES (SECONDS)
8
7
6
5
4
3
2
1
0
502C
504C

FIG. 5C

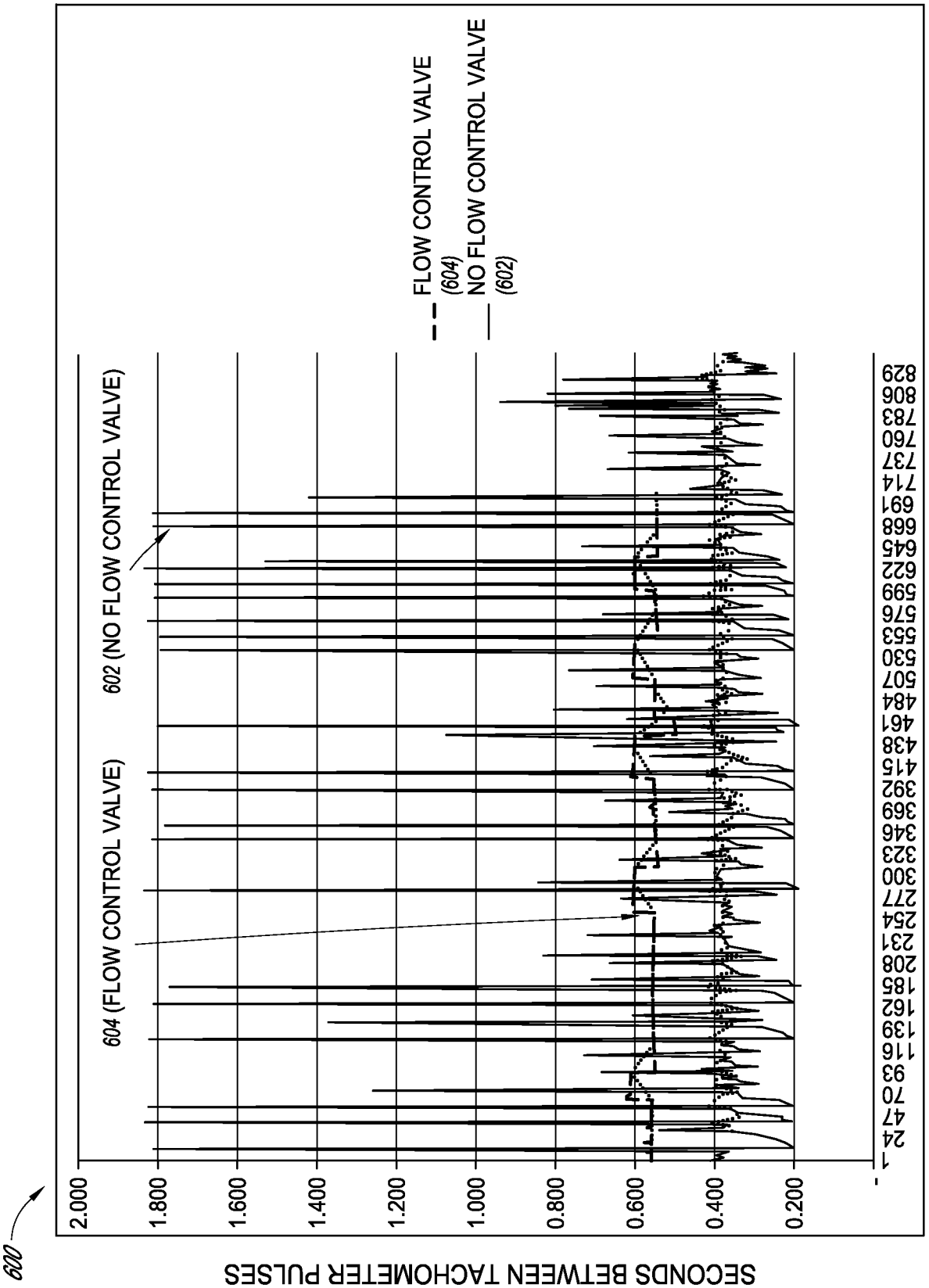

600
SECONDS BETWEEN TACHOMETER PULSES
2.000
1.800
1.600
1.400
1.200
1.000
0.800
0.600
0.400
0.200
604 (FLOW CONTROL VALVE)
602 (NO FLOW CONTROL VALVE)
FLOW CONTROL VALVE (604)
NO FLOW CONTROL VALVE (602)
1 24 47 70 93 116 139 162 185 208 231 254 277 300 323 346 369 392 415 438 461 484 507 530 553 576 599 622 645 668 691 714 737 760 783 806 829
TACHOMETER PULSES

FIG. 6

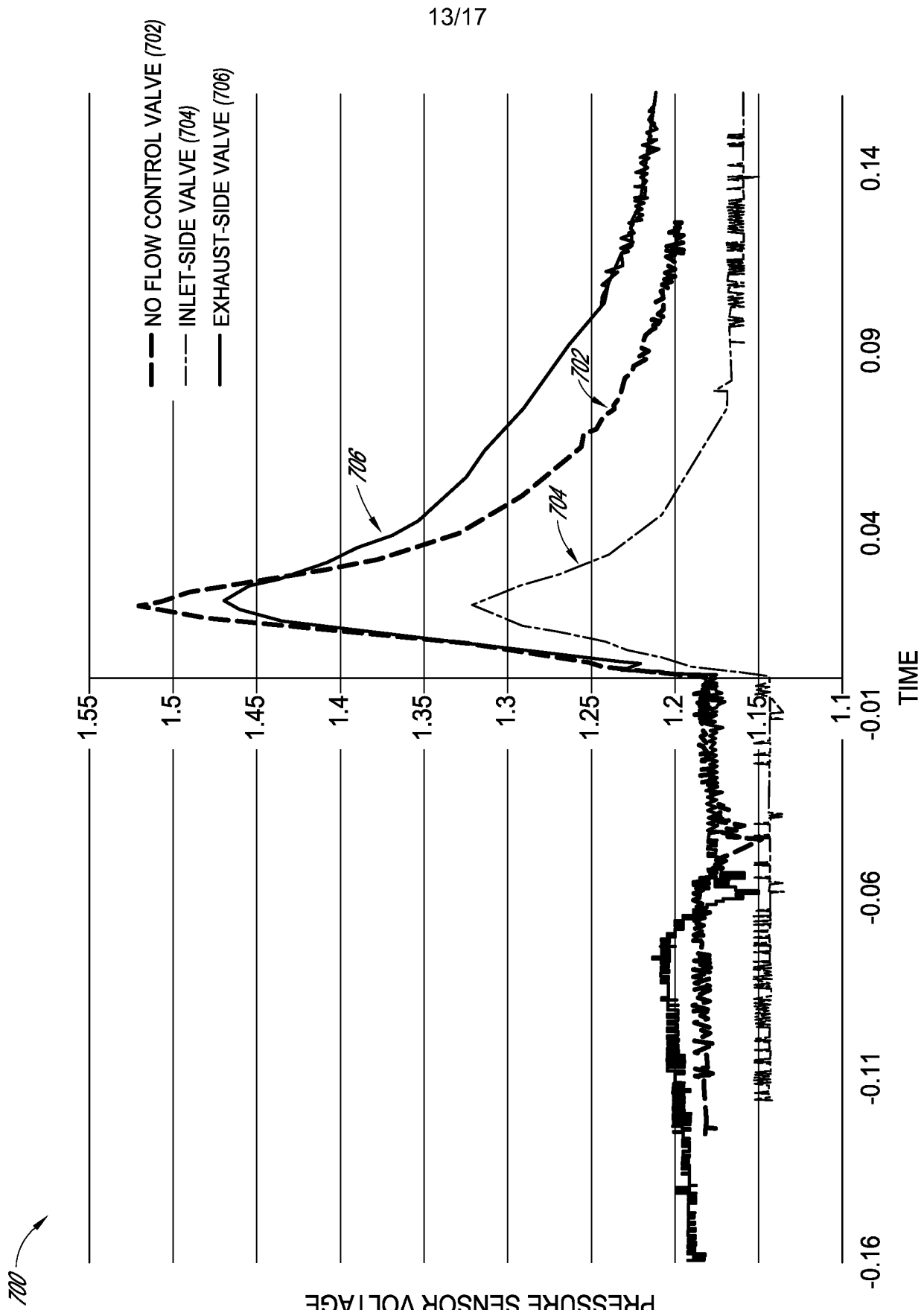

700
NO FLOW CONTROL VALVE (702)
INLET-SIDE VALVE (704)
EXHAUST-SIDE VALVE (706)
702
704
706
PRESSURE SENSOR VOLTAGE
1.55
1.5
1.45
1.4
1.35
1.3
1.25
1.2
1.15
1.1
-0.16
-0.11
-0.06
-0.01
0.04
0.09
0.14
TIME

FIG. 7

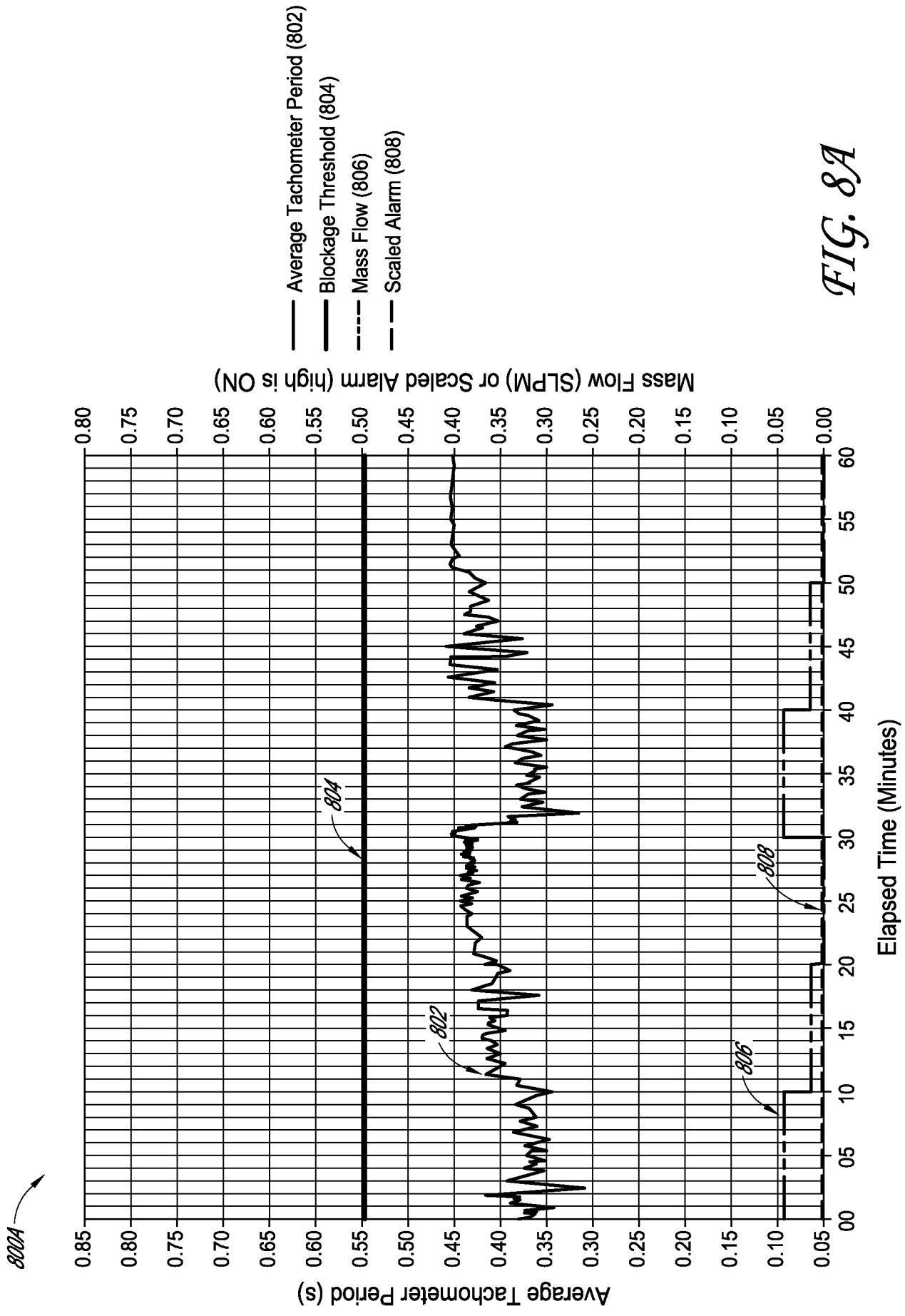

800A
Average Tachometer Period (s)
Mass Flow (SLPM) or Scaled Alarm (high is ON)
Elapsed Time (Minutes)
Average Tachometer Period (802)
Blockage Threshold (804)
Mass Flow (806)
Scaled Alarm (808)
802
804
806
808

FIG. 8A

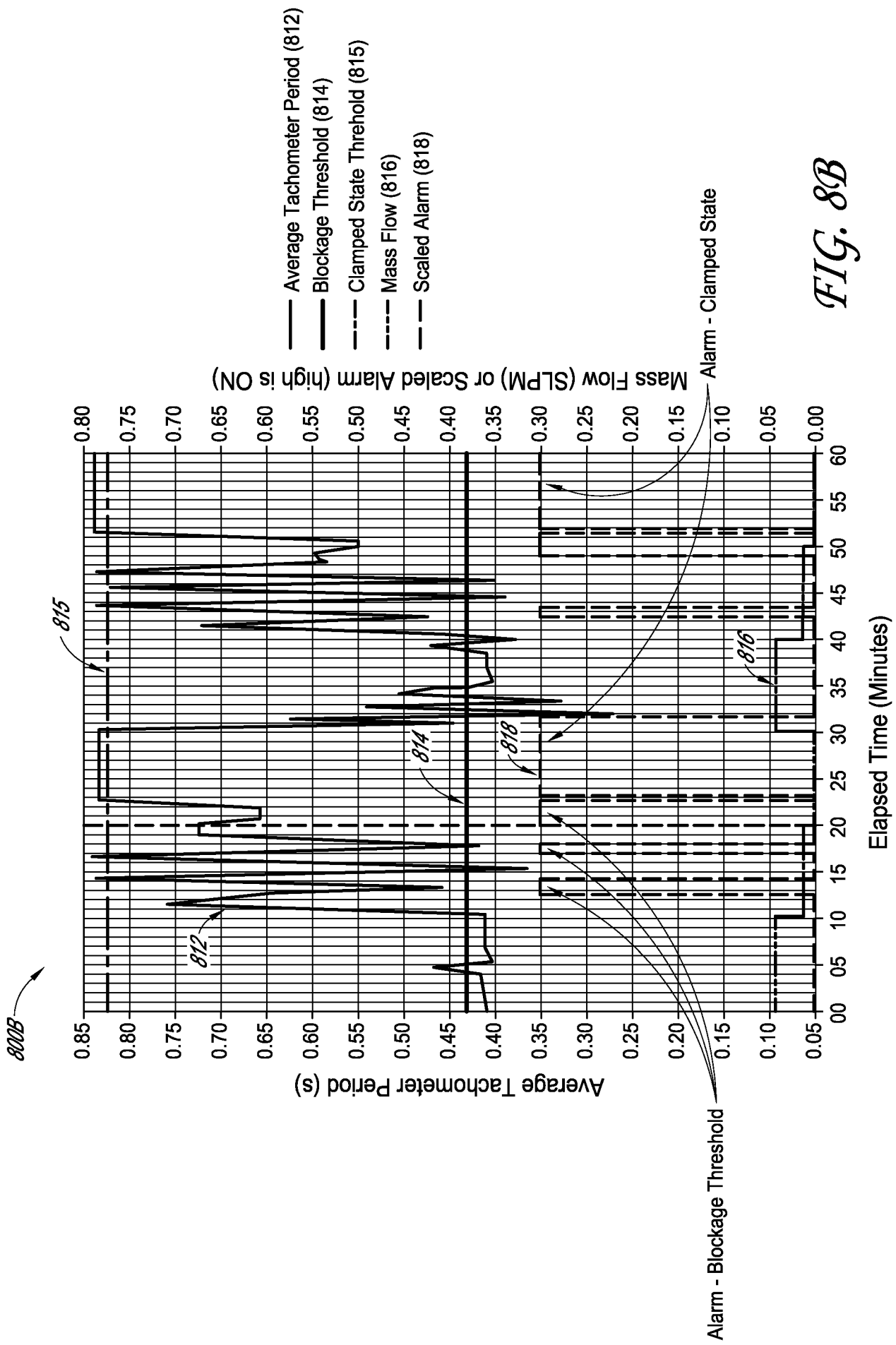

800B
812
814
815
816
818
Average Tachometer Period (812)
Blockage Threshold (814)
Clamped State Threhold (815)
Mass Flow (816)
Scaled Alarm (818)
Mass Flow (SLPM) or Scaled Alarm (high is ON)
Average Tachometer Period (s)
Elapsed Time (Minutes)
Alarm - Clamped State
Alarm - Blockage Threshold

FIG. 8B

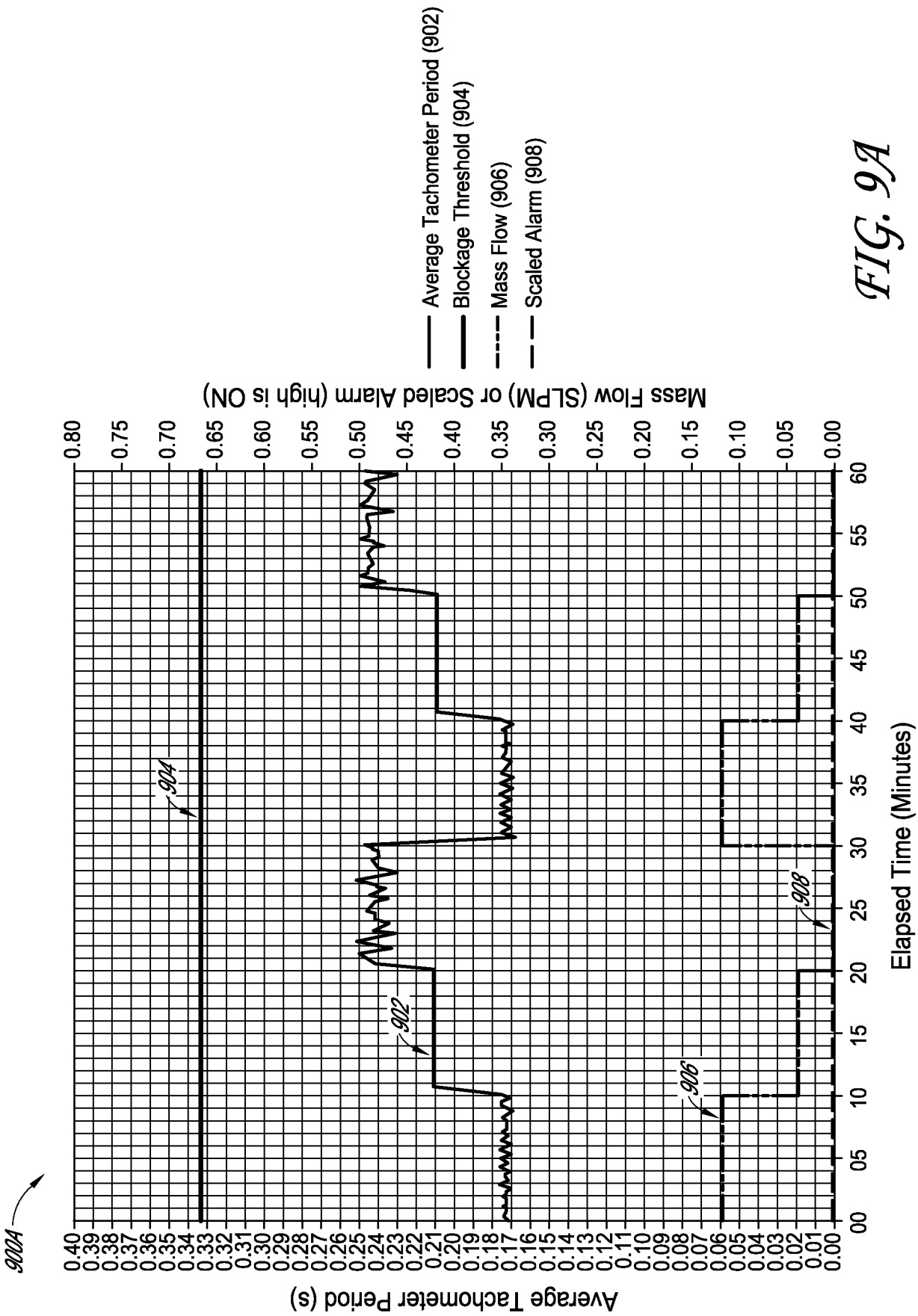

900A
Average Tachometer Period (s)
Mass Flow (SLPM) or Scaled Alarm (high is ON)
Elapsed Time (Minutes)
Average Tachometer Period (902)
Blockage Threshold (904)
Mass Flow (906)
Scaled Alarm (908)
902
904
906
908

FIG. 9A

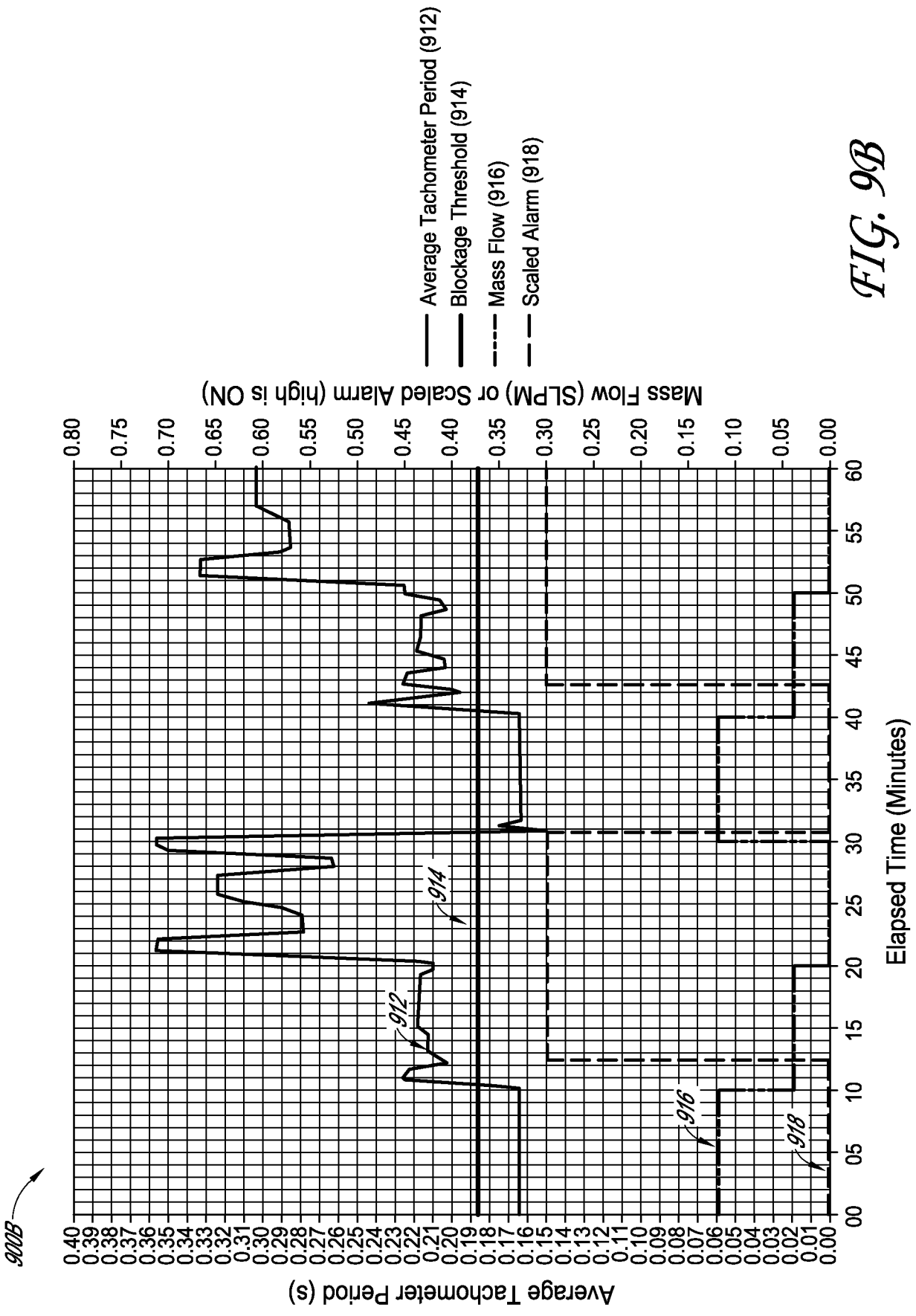

900B
Average Tachometer Period (s)
Mass Flow (SLPM) or Scaled Alarm (high is ON)
Elapsed Time (Minutes)
Average Tachometer Period (912)
Blockage Threshold (914)
Mass Flow (916)
Scaled Alarm (918)
912
914
916
918

FIG. 9B