23 SEP 2004

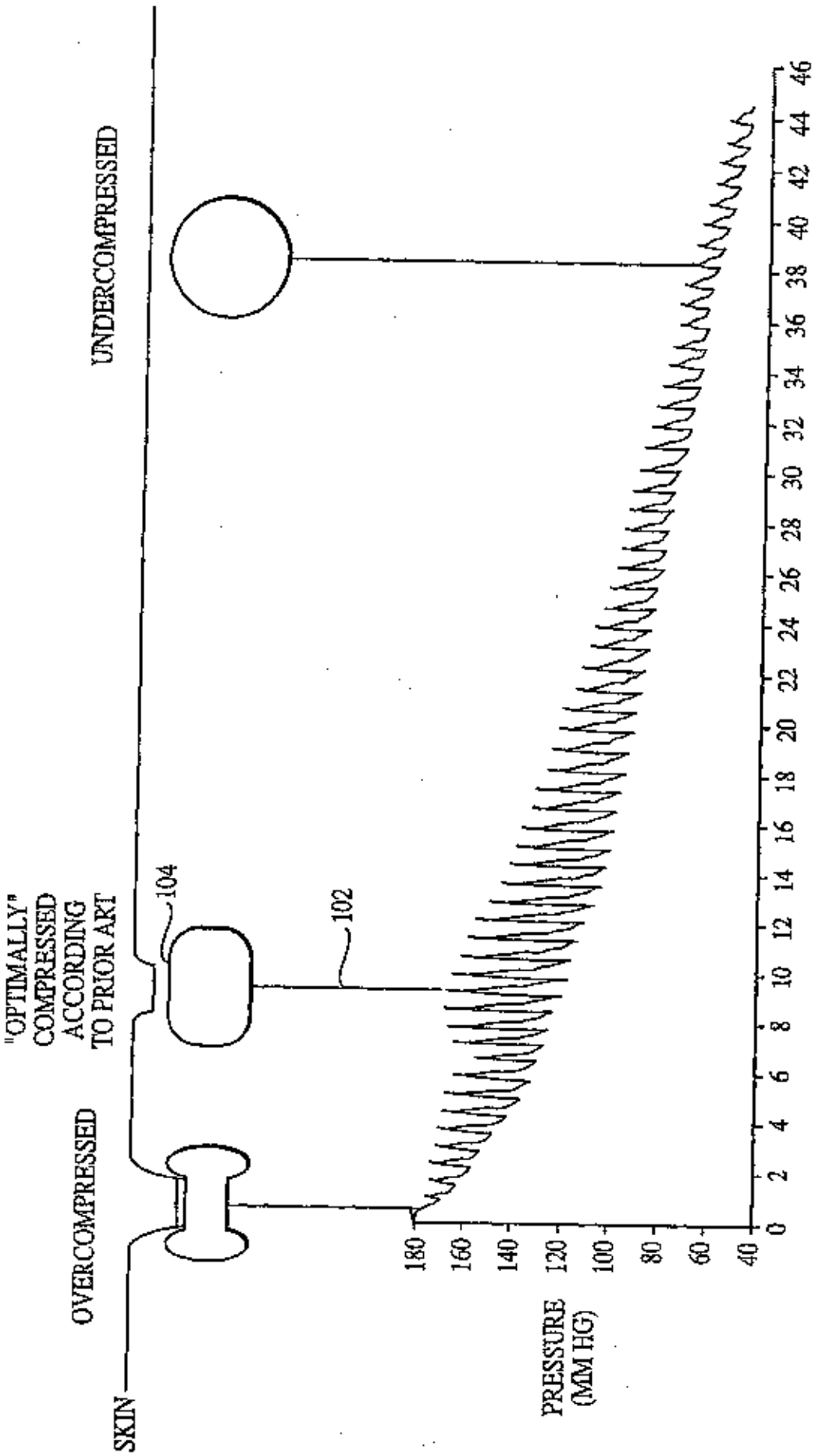


FIG. 1
PRIOR ART

2 3 SEP 2004

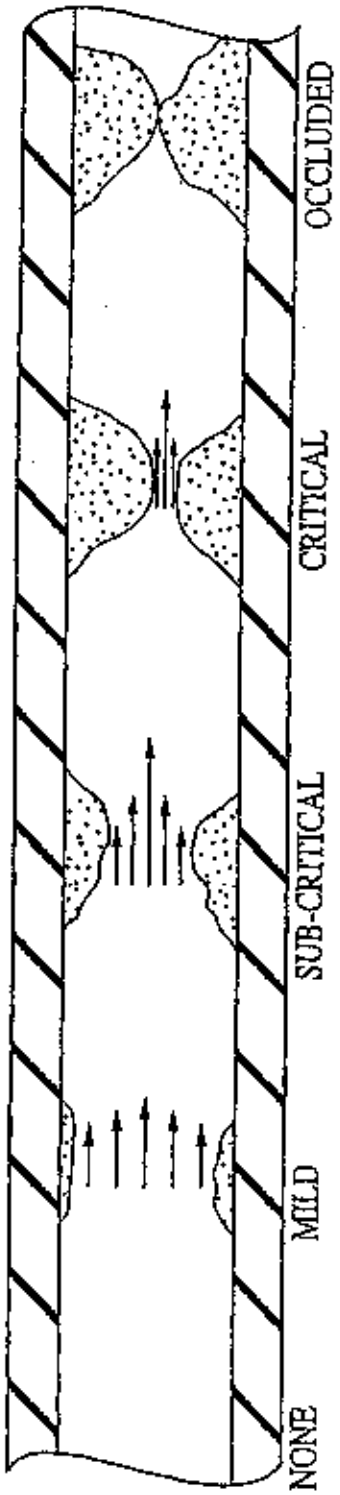


FIG. 2
PRIOR ART

23 SEP 2004

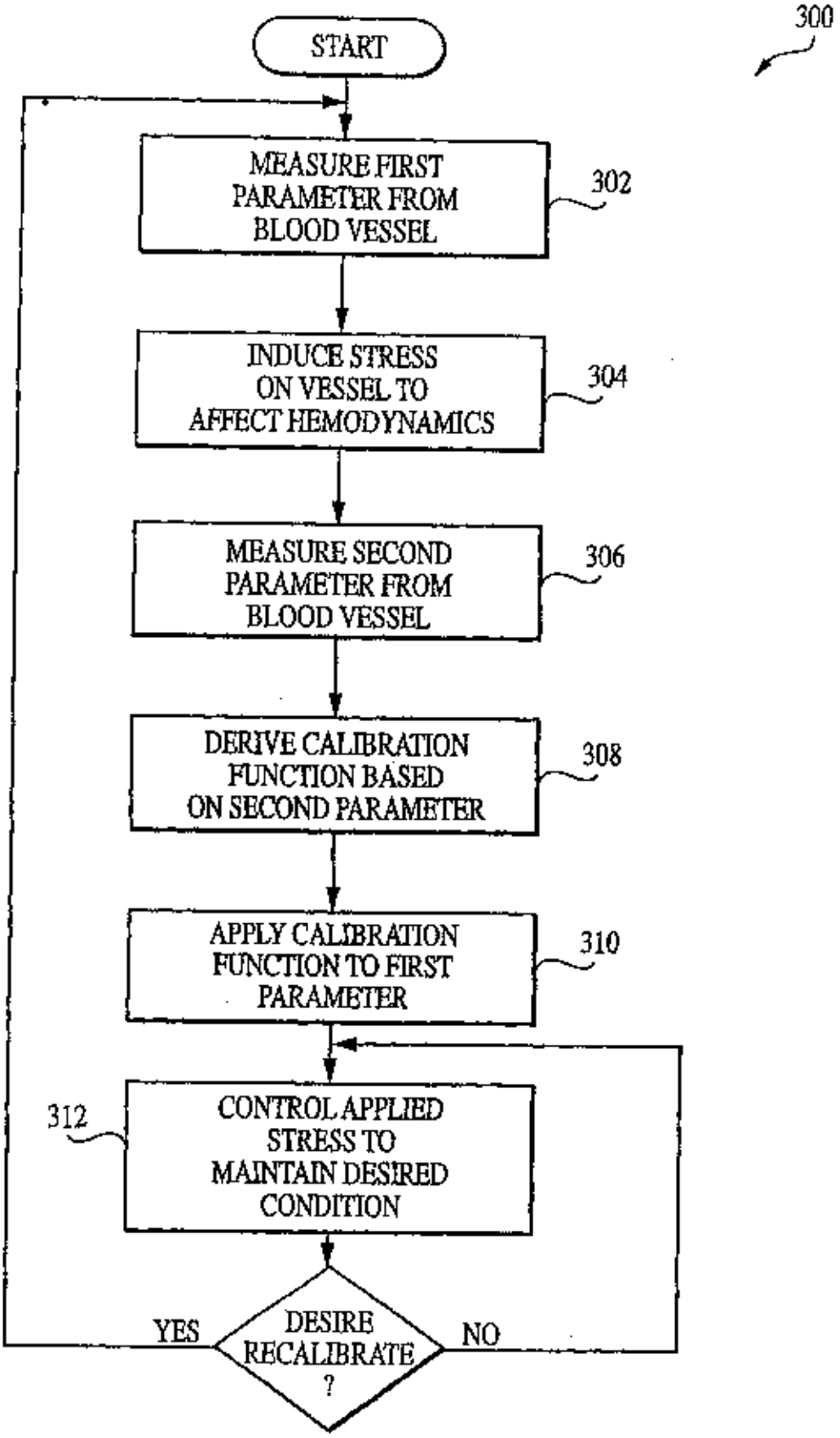


FIG. 3

2 3 SEP 2004

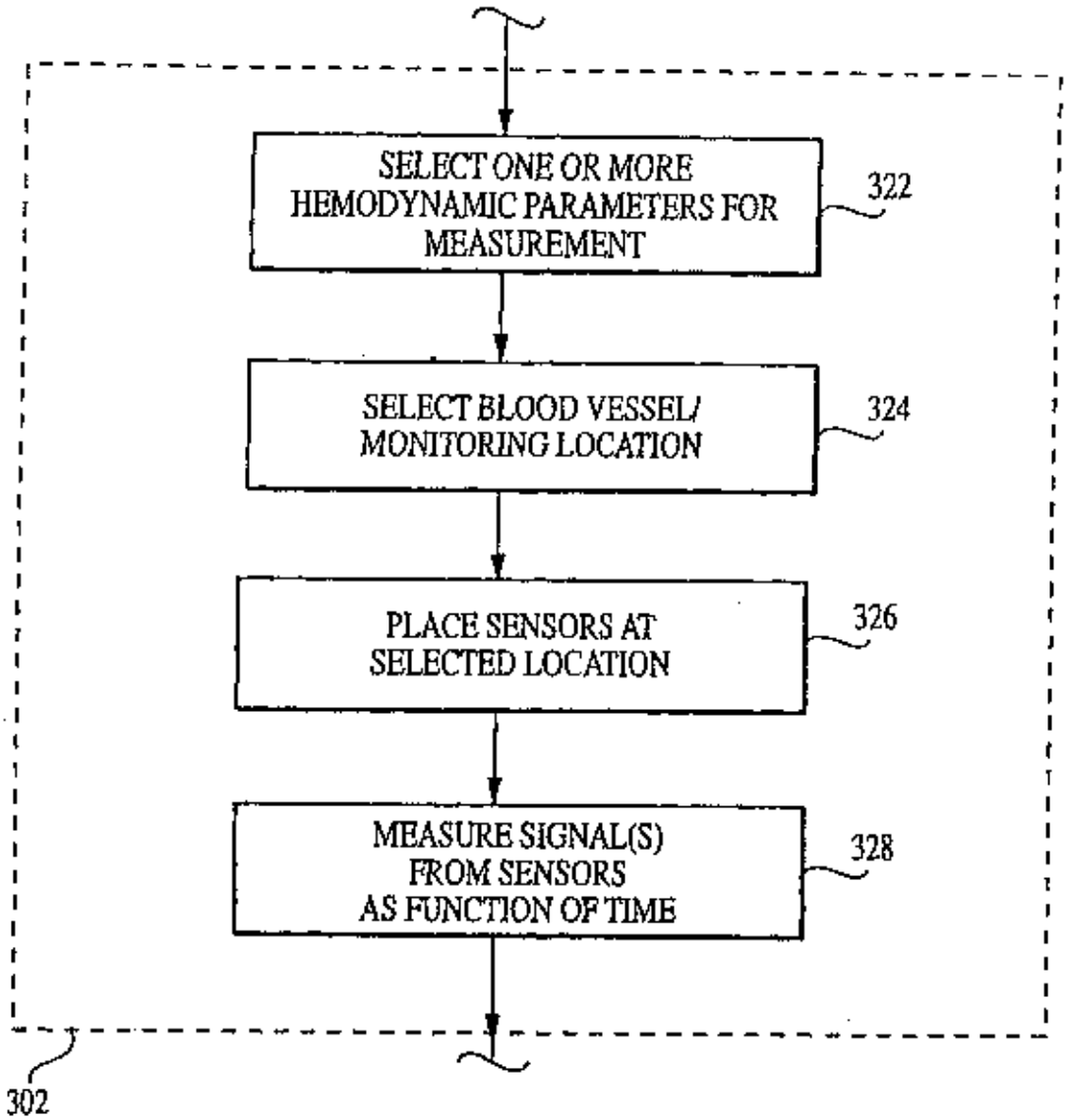


FIG. 3a

320

29 SEP 2004

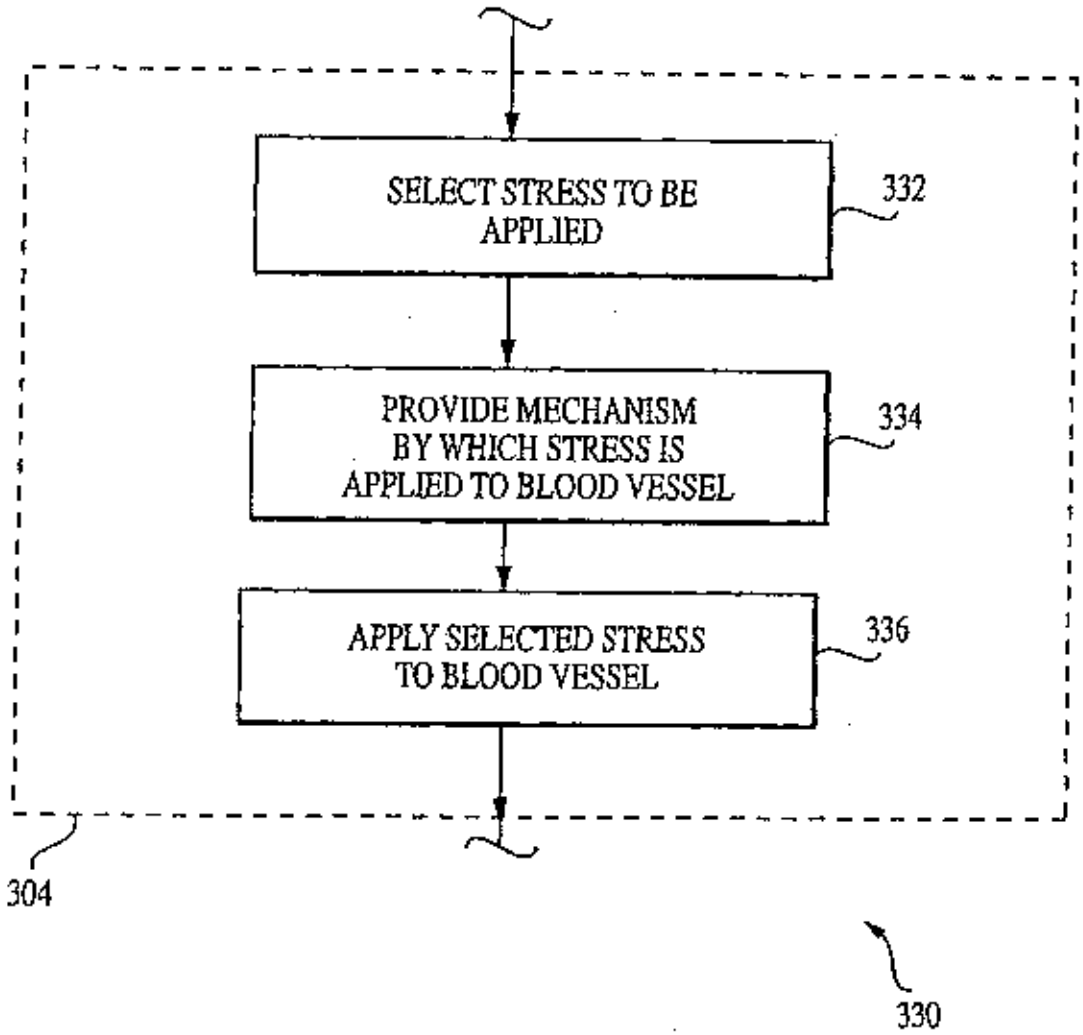


FIG. 3b

23 SEP 2004

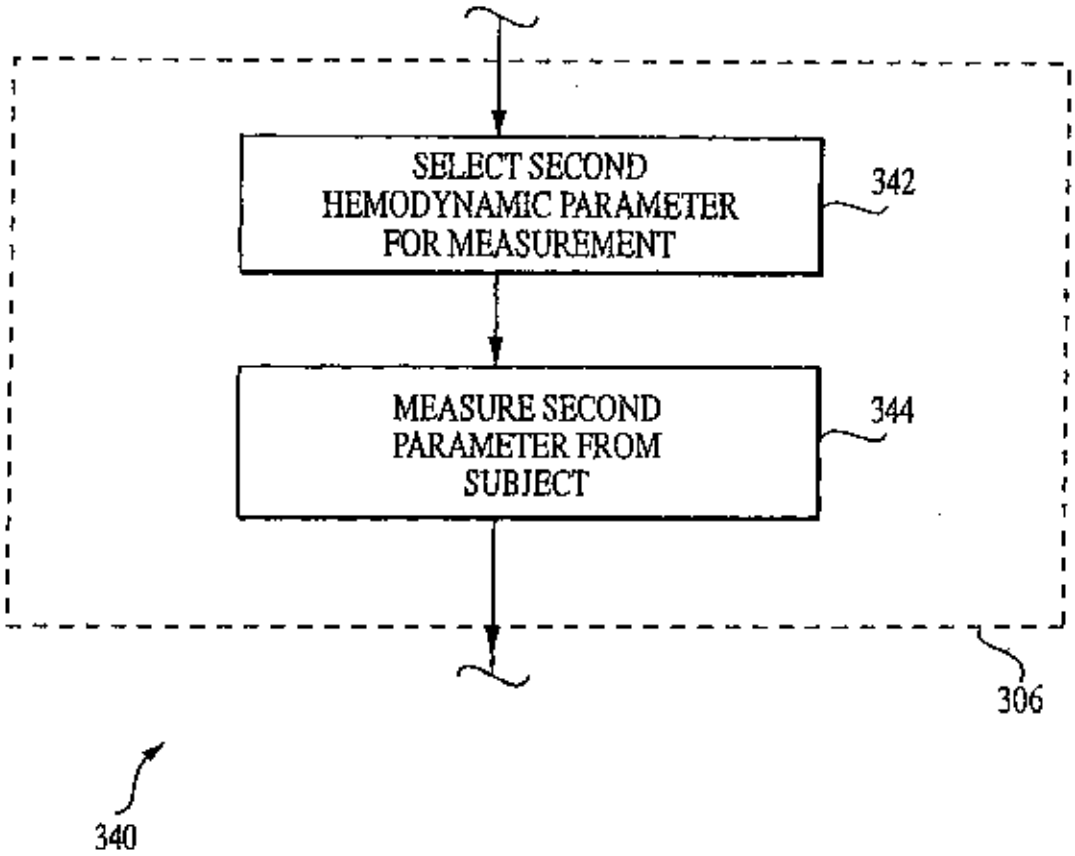


FIG. 3c

23 SEP 2004

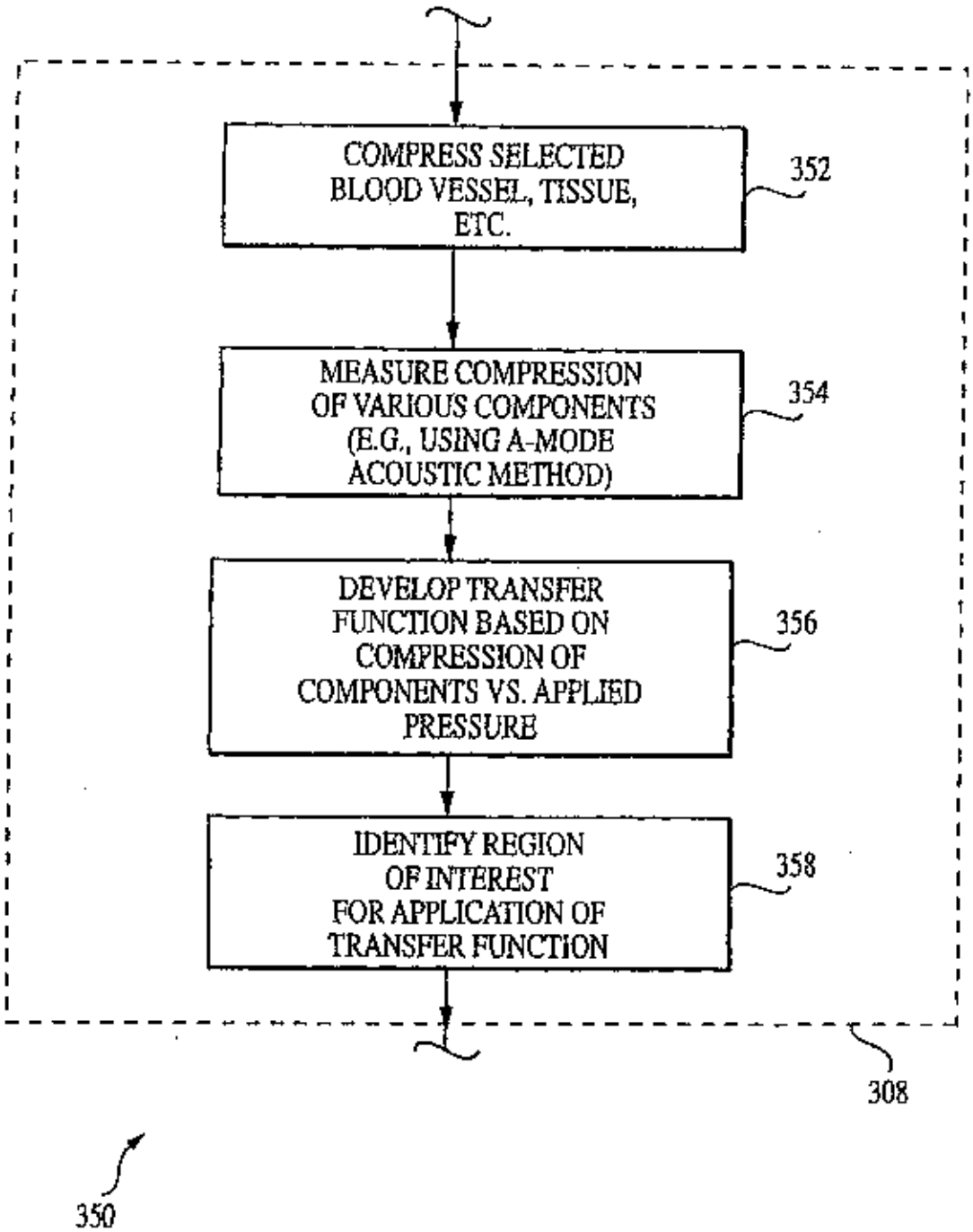


FIG. 3d

23 SEP 2004

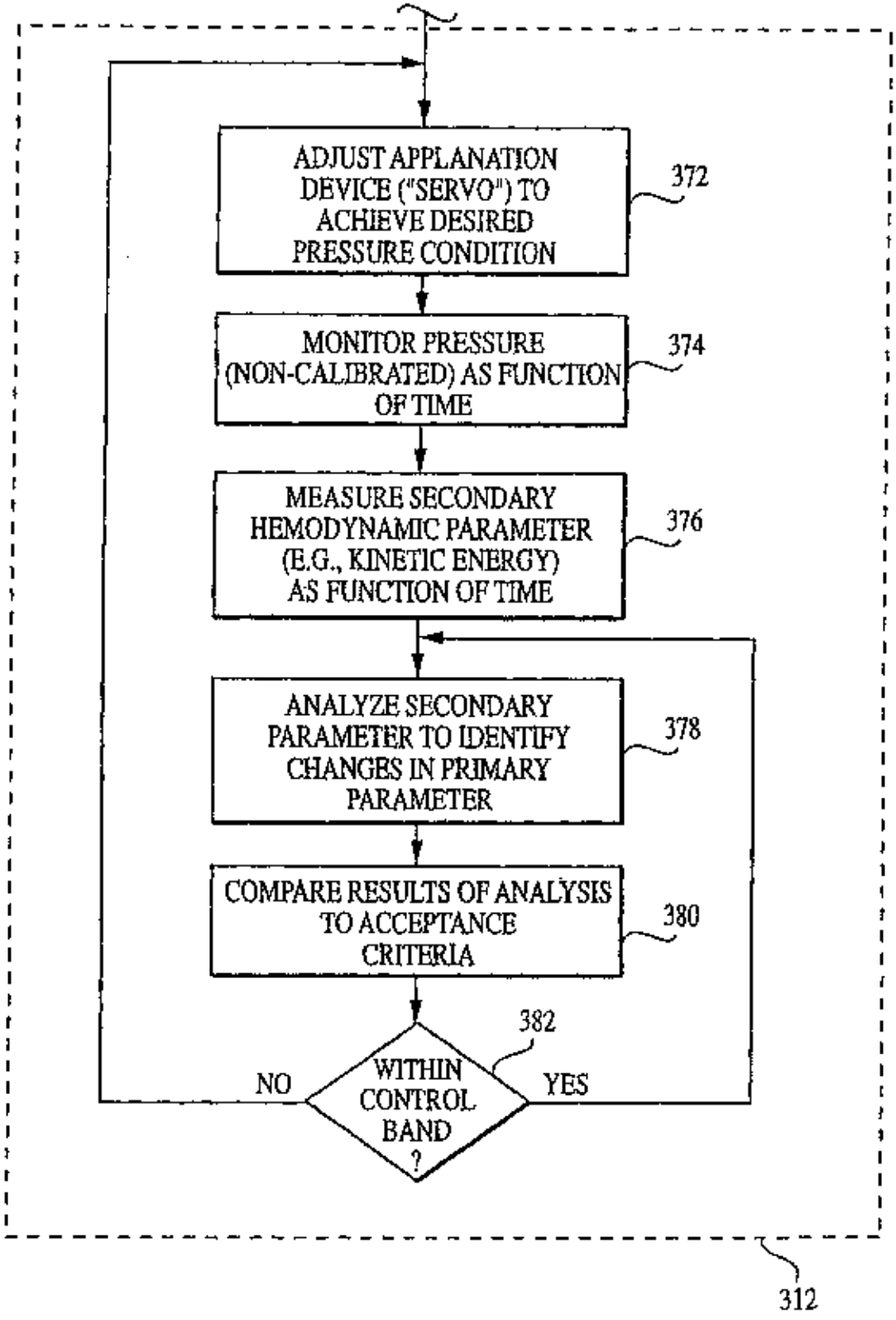


FIG. 3e

23 SEP 2004

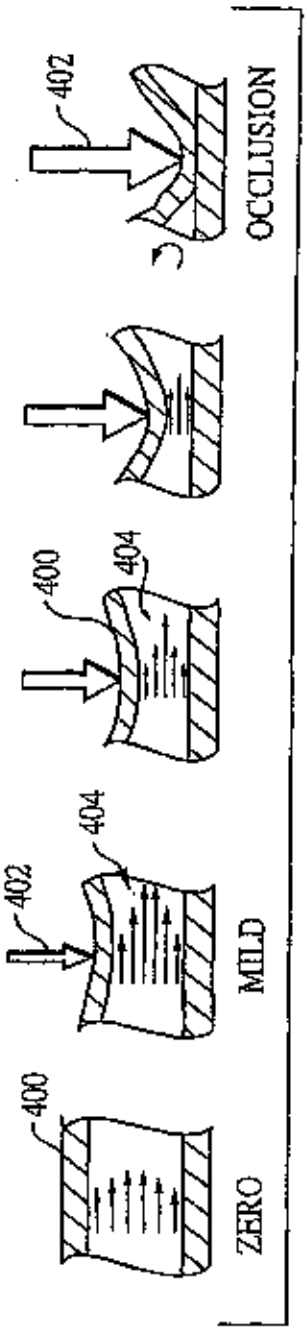


FIG. 4a

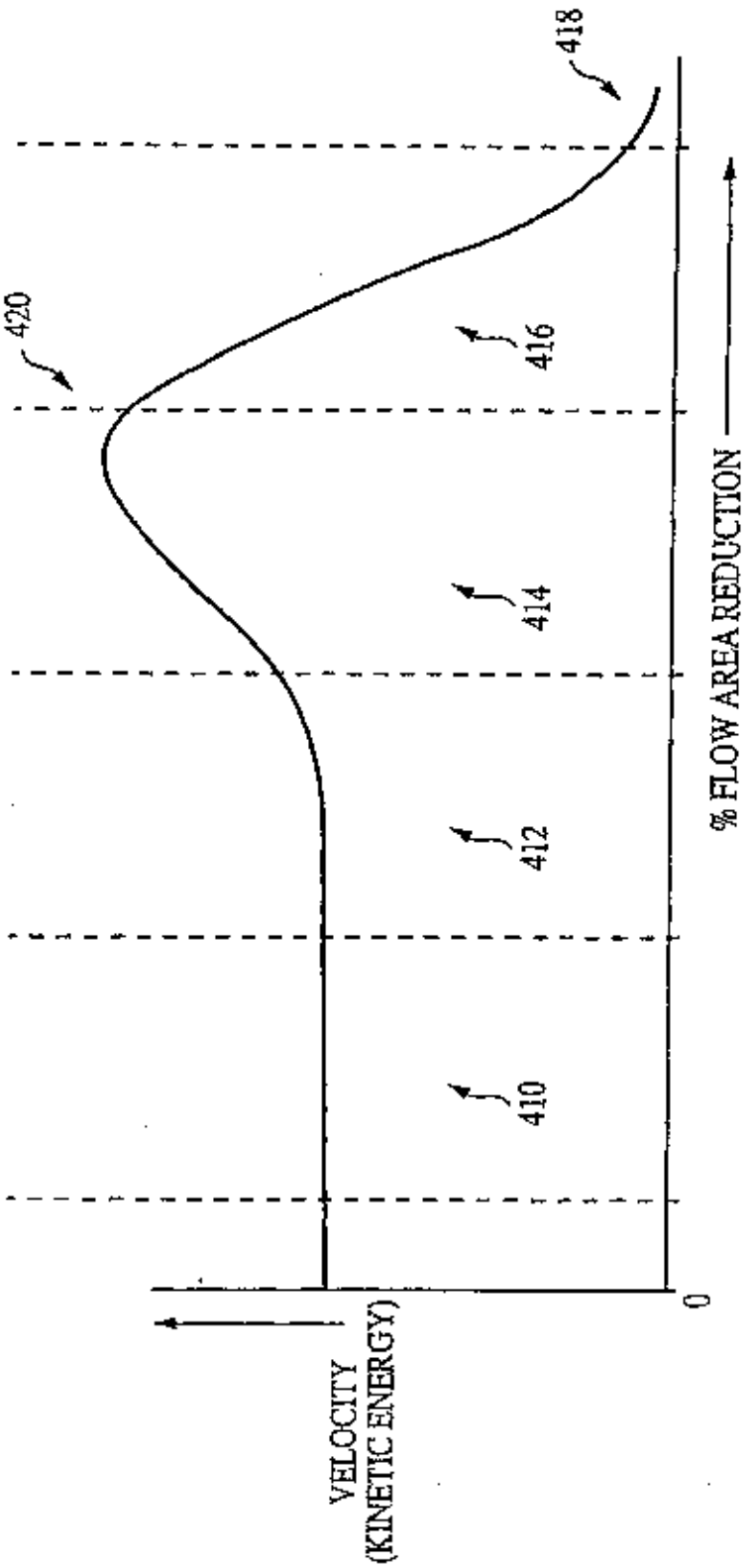


FIG. 4b

23 SEP 2004

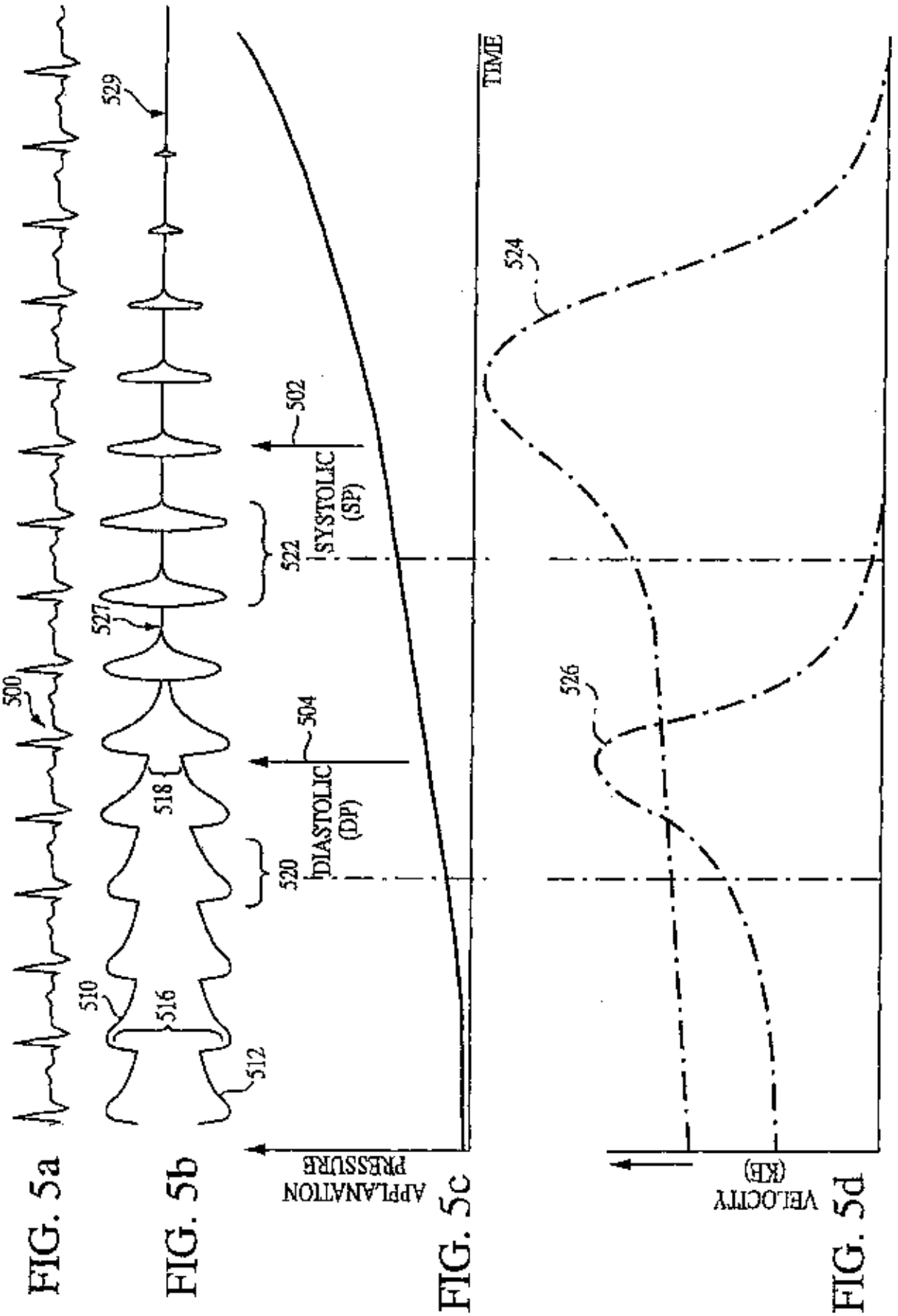


FIG. 5a

FIG. 5b

FIG. 5c

FIG. 5d

2 3 SEP 2004

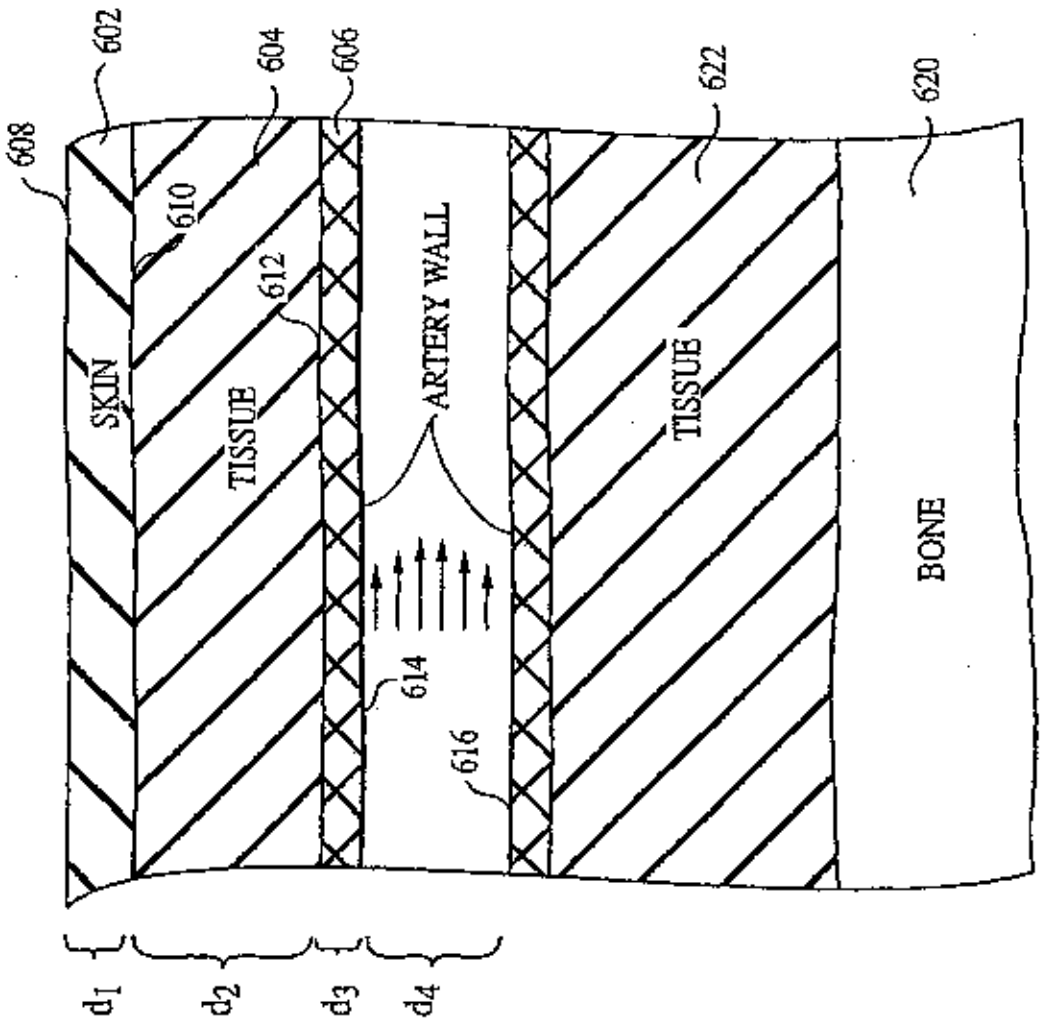


FIG. 6

23 SEP 2004

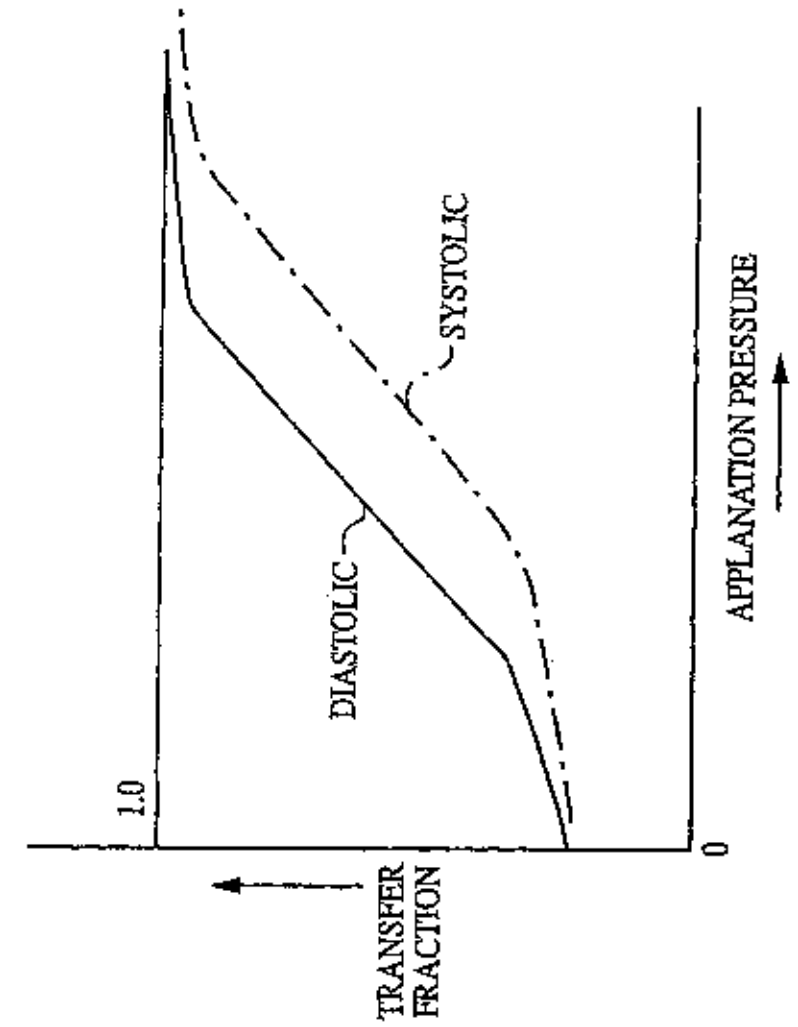


FIG. 7b

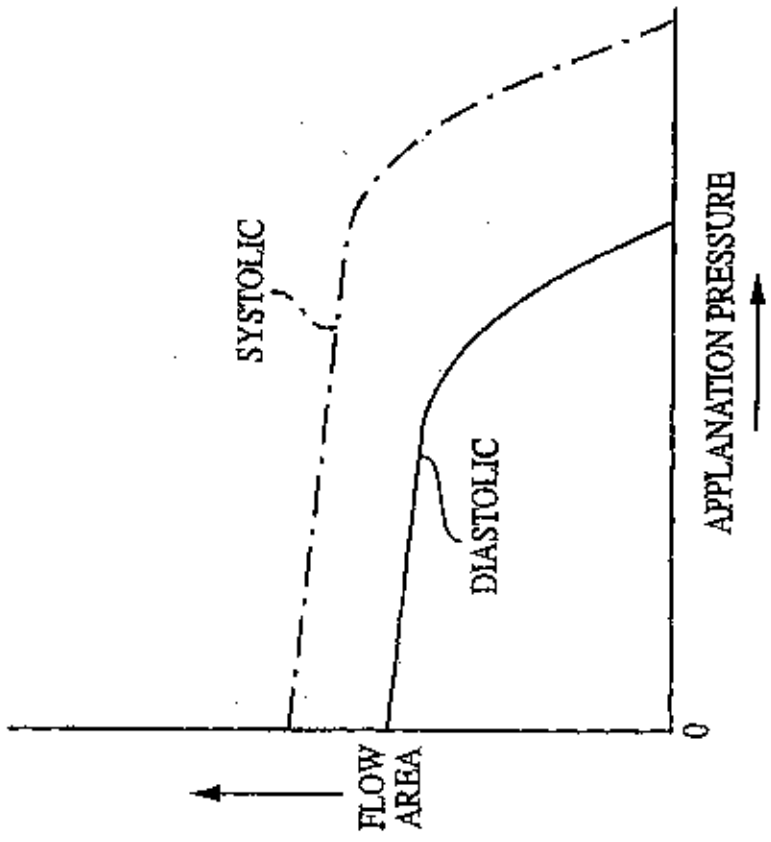


FIG. 7a

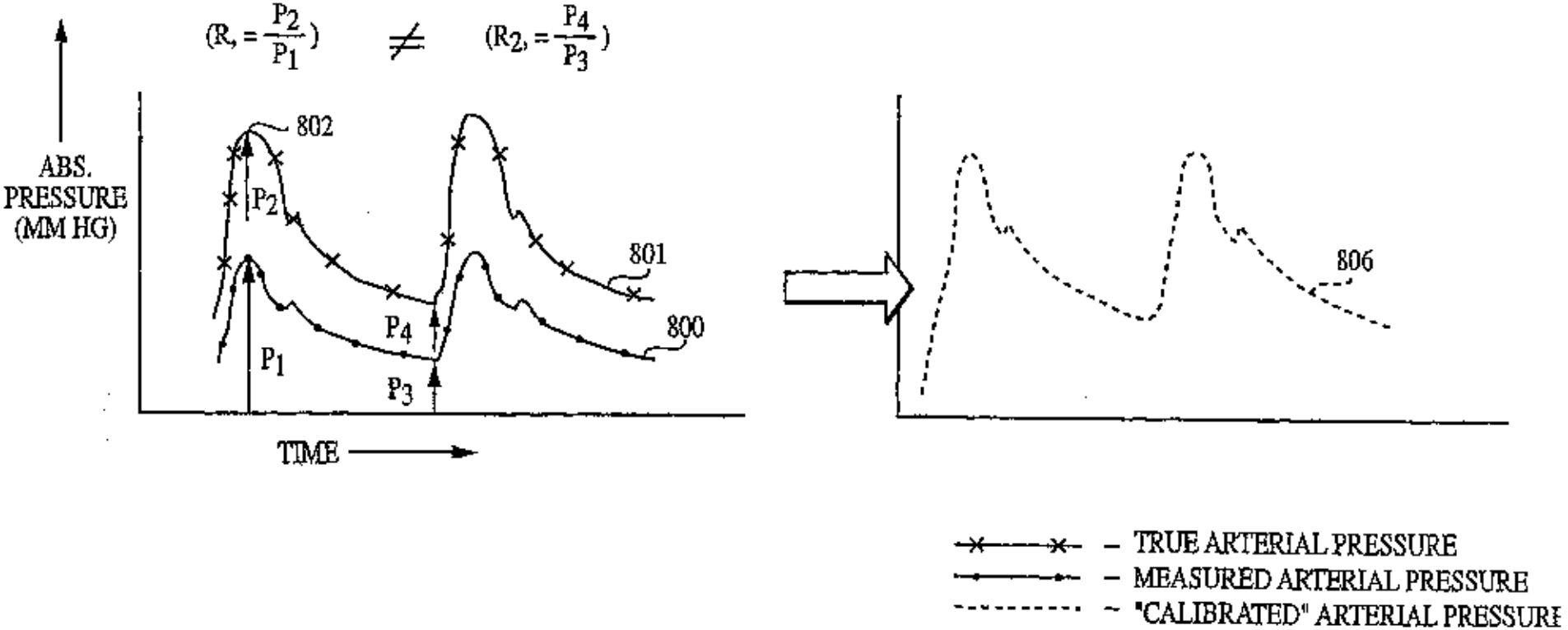

$(R_1 = \frac{P_2}{P_1})$ ≠ $(R_2 = \frac{P_4}{P_3})$
ABS. PRESSURE (MM HG)
802
P_2
801
800
P_4
P_1
P_3
TIME
806
– TRUE ARTERIAL PRESSURE
– MEASURED ARTERIAL PRESSURE
– "CALIBRATED" ARTERIAL PRESSURE

FIG. 8

23 SEP 2004

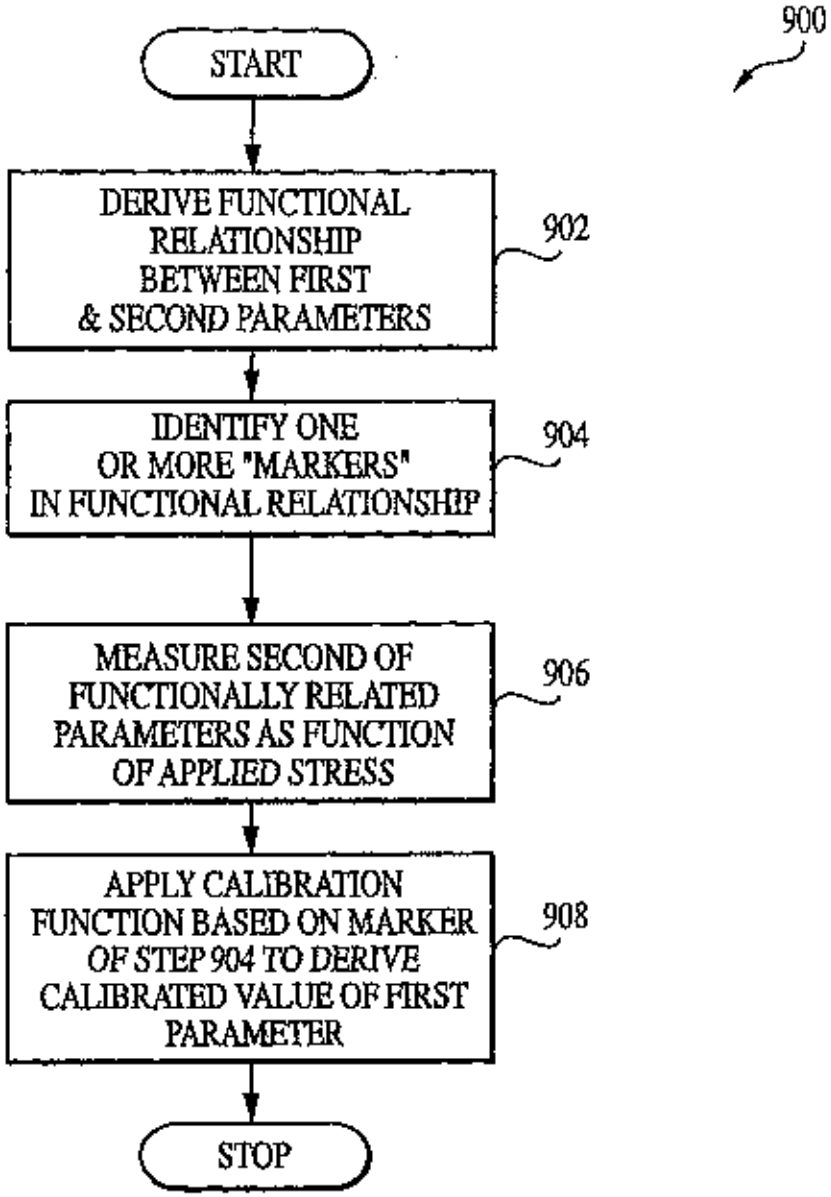


FIG. 9

23 SEP 2004

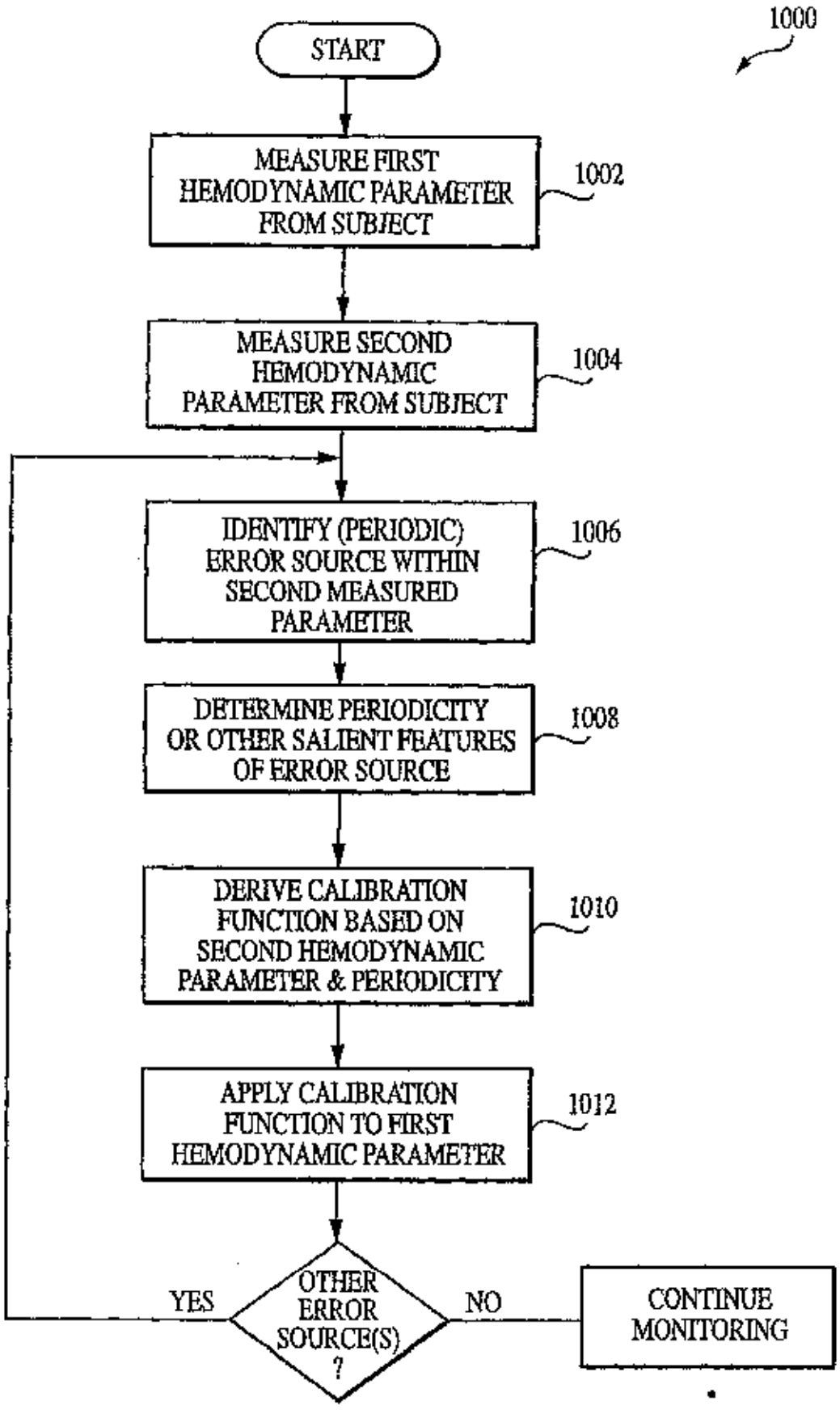


FIG. 10

20 SEP 2004

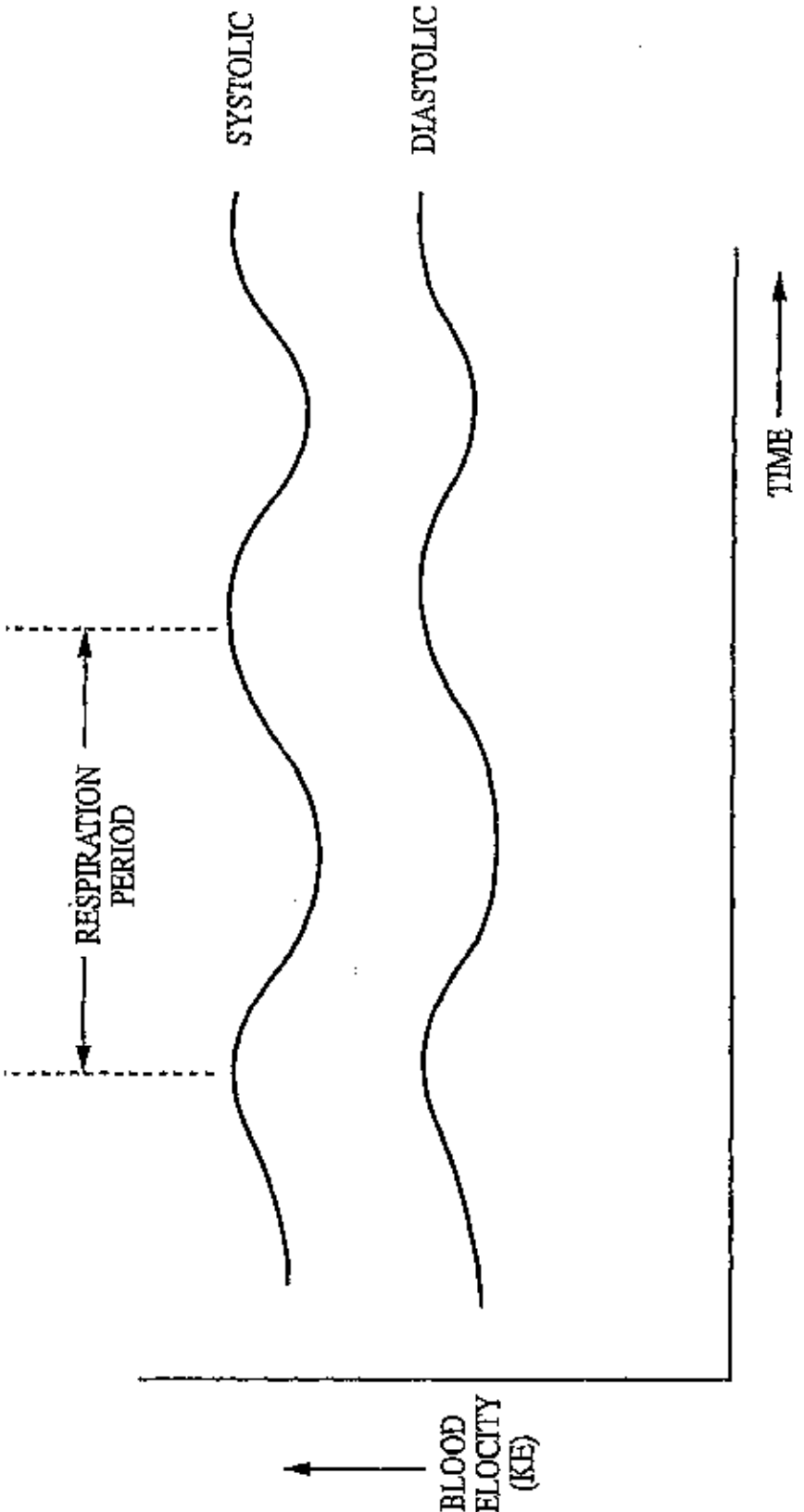


FIG. 11

23 SEP 2004

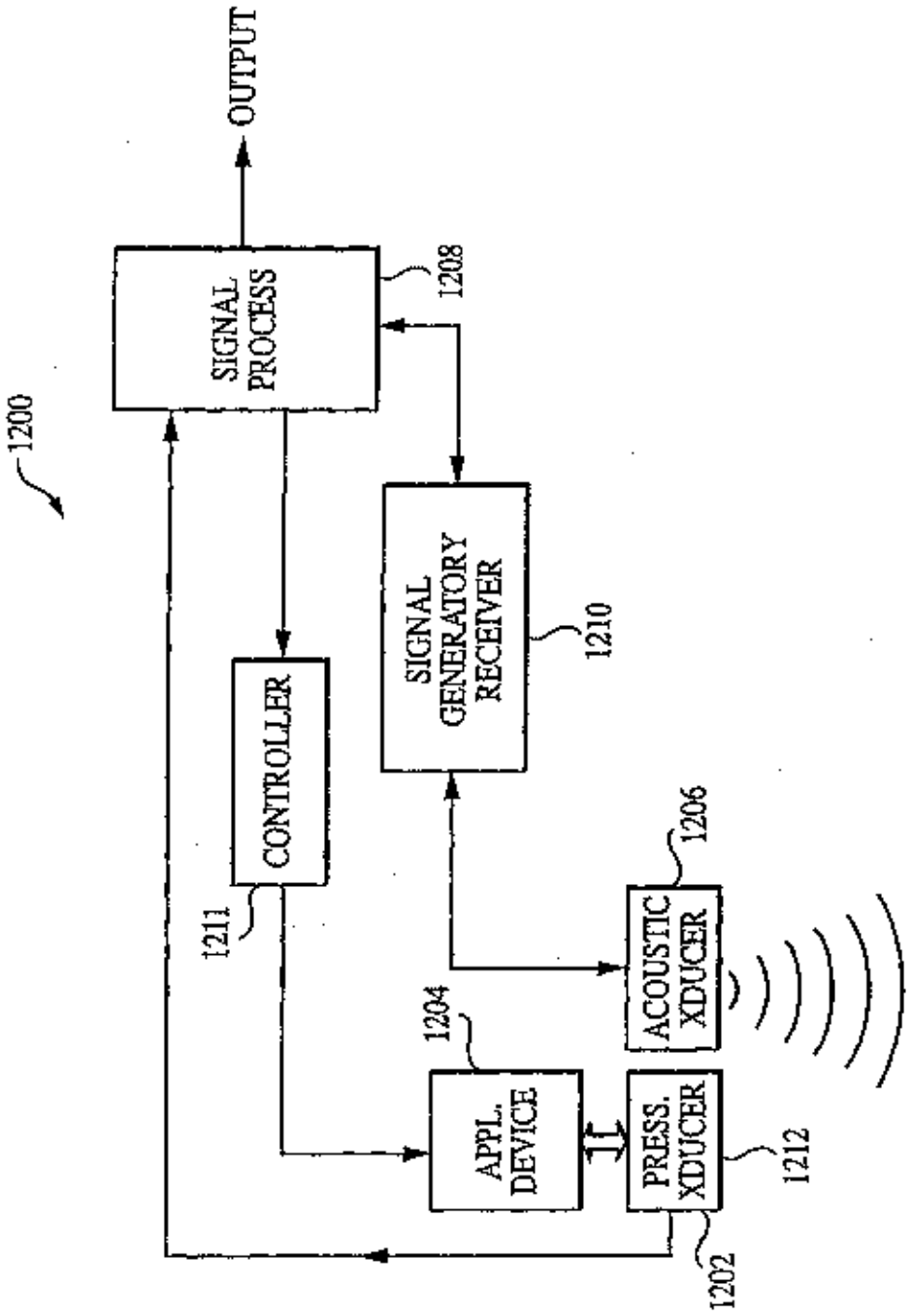


FIG. 12

23 SEP 2004

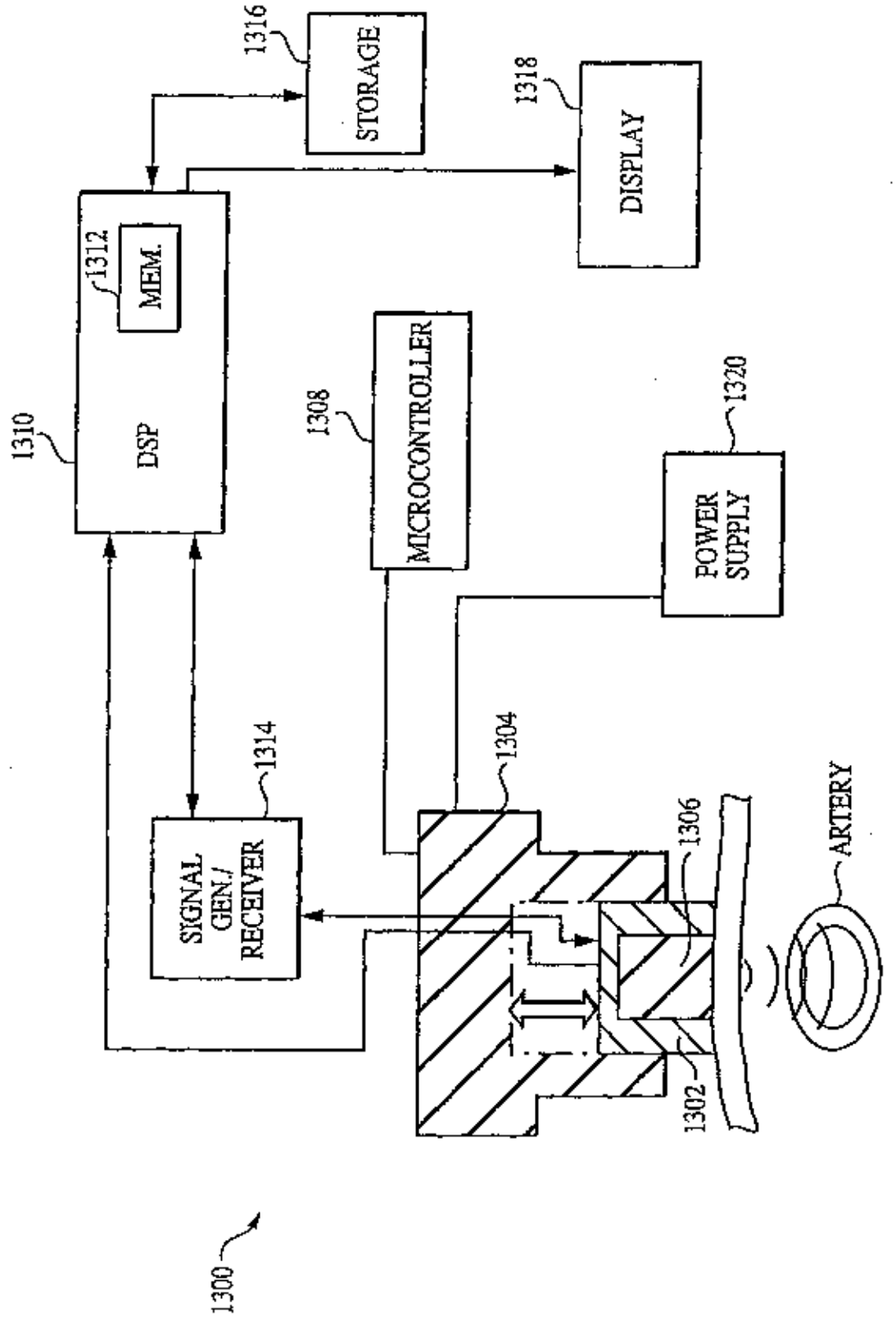


FIG. 13

23 SEP 2004

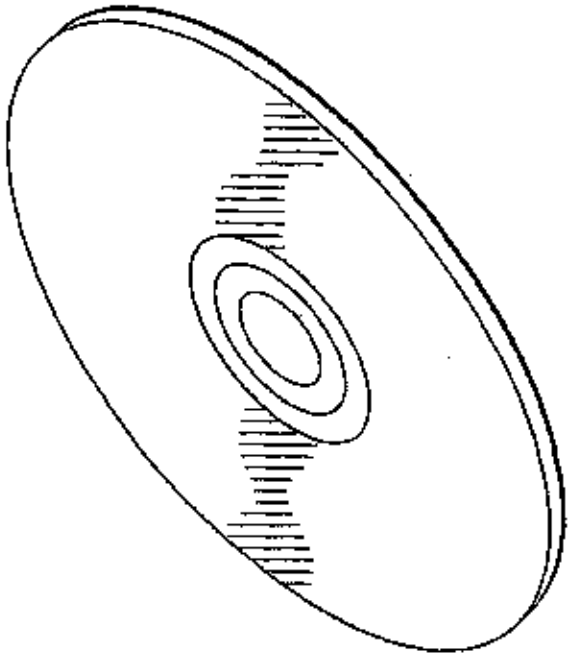


FIG. 14b

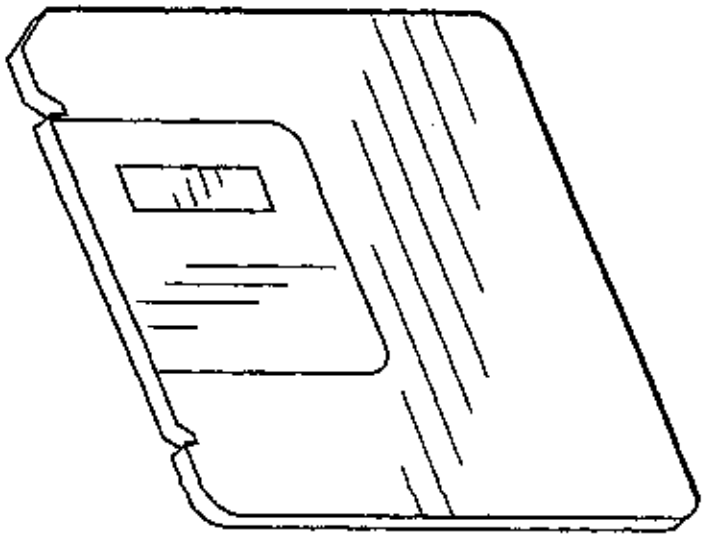


FIG. 14a

23 SEP 2004

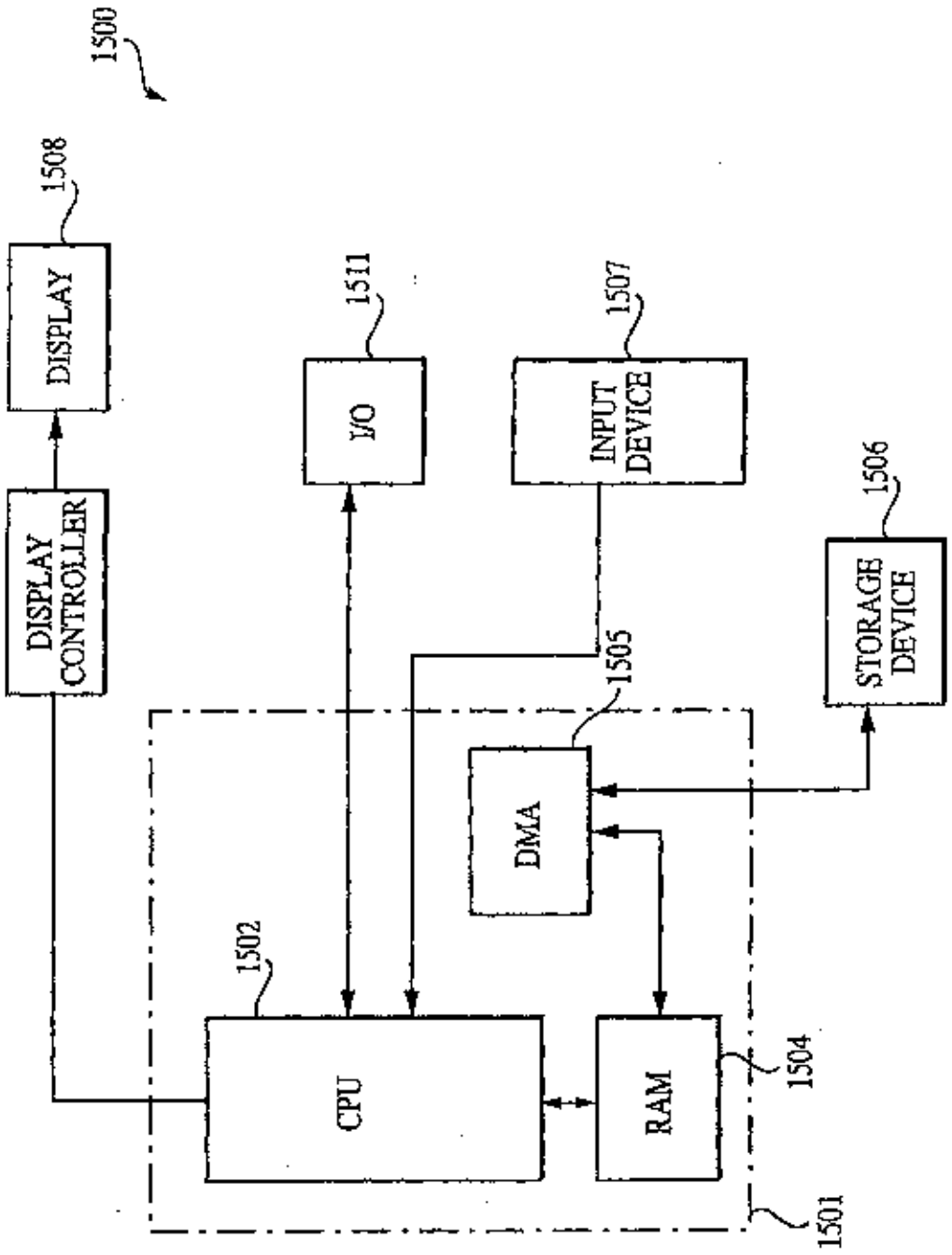


FIG. 15

2 3 SEP 2004

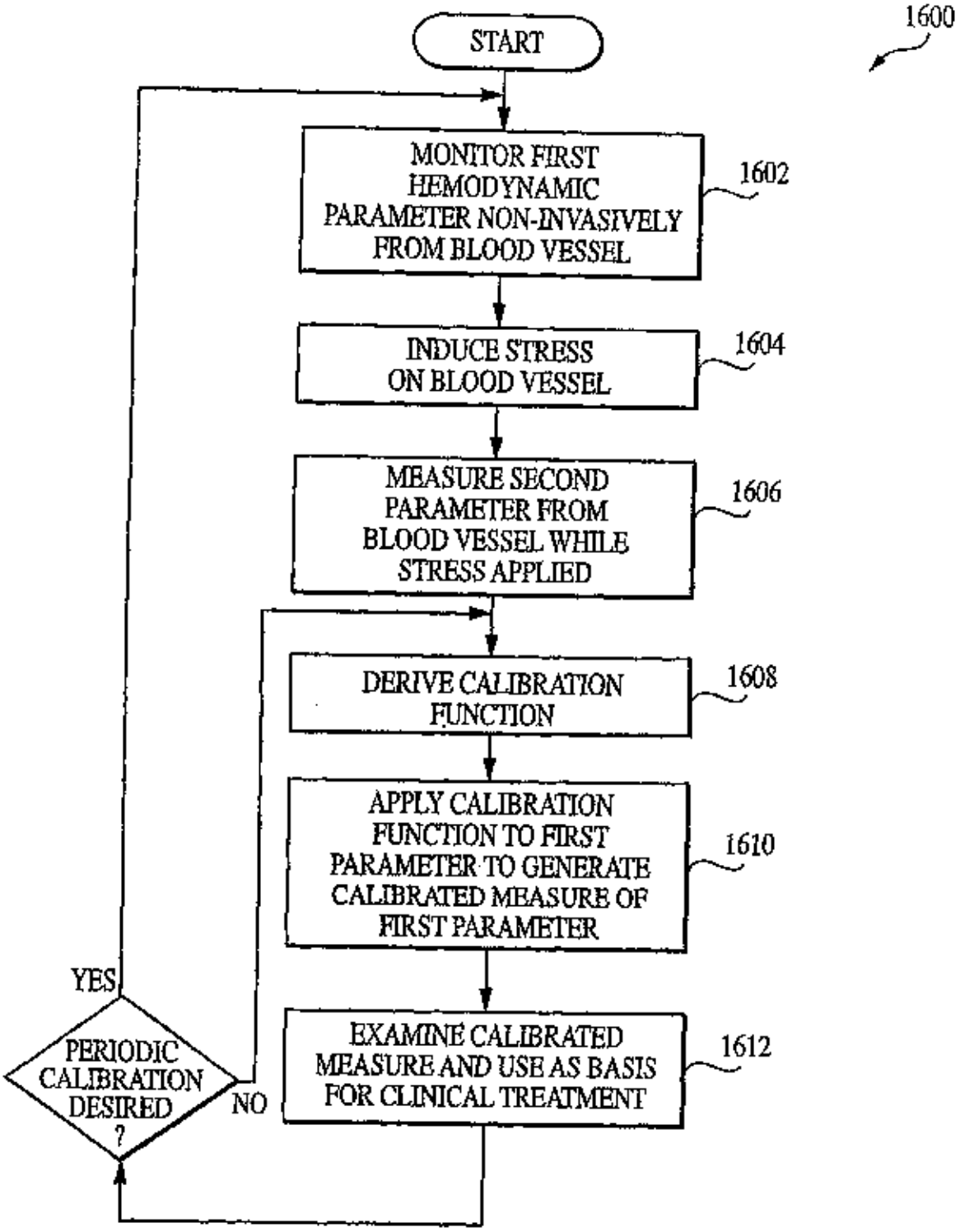


FIG. 16

23 SEP 2004

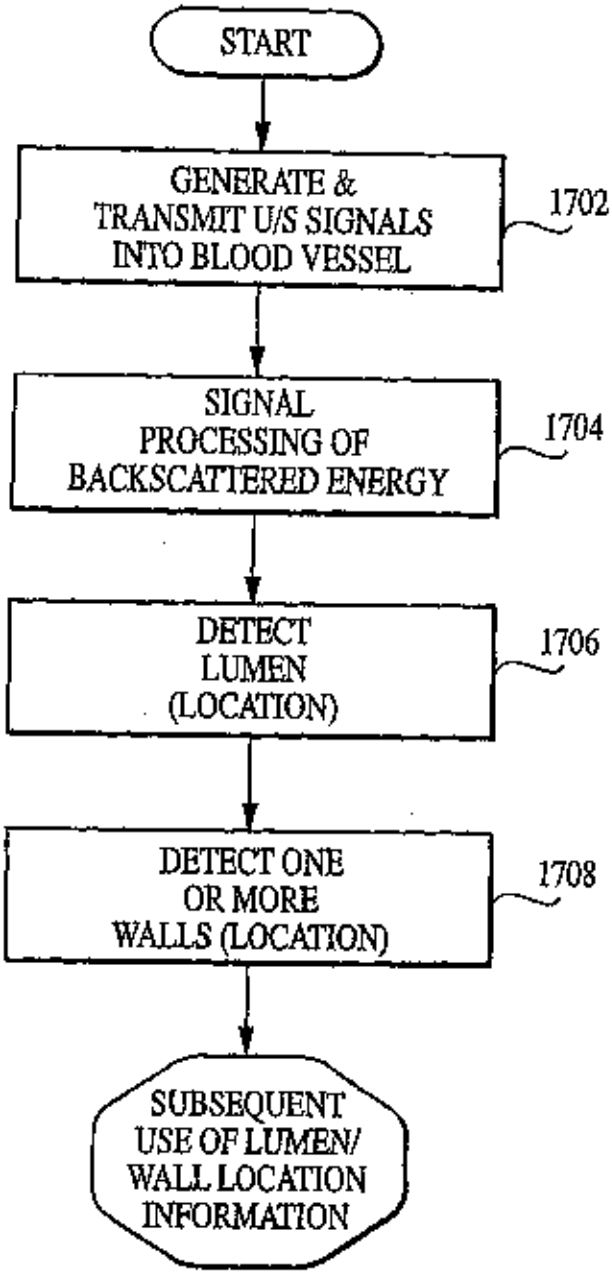


FIG. 17

23 SEP 2004

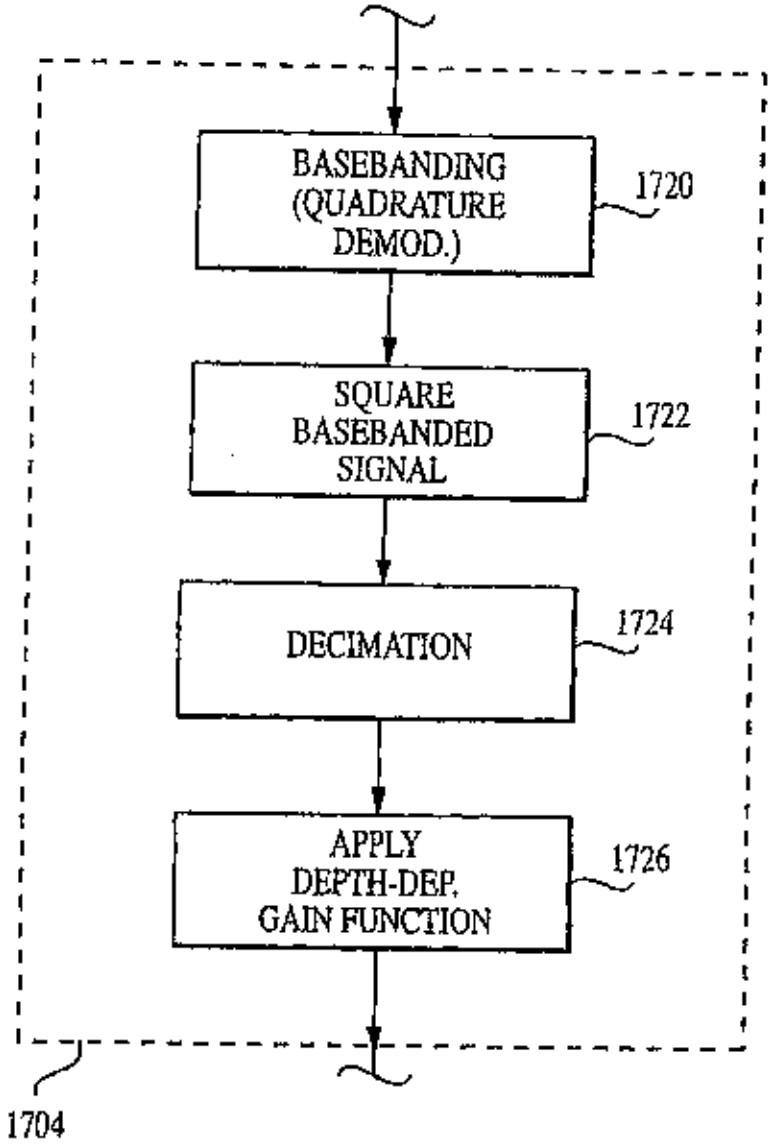


FIG. 17a

23 SEP 2004

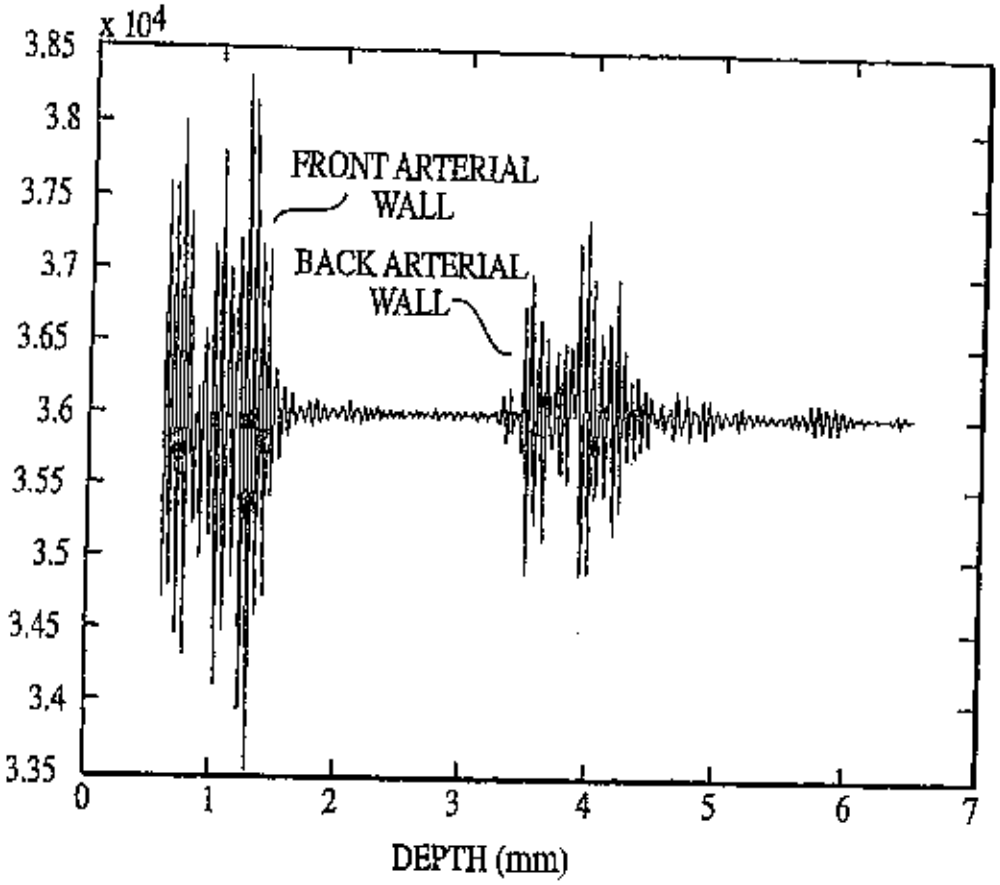


FIG. 18

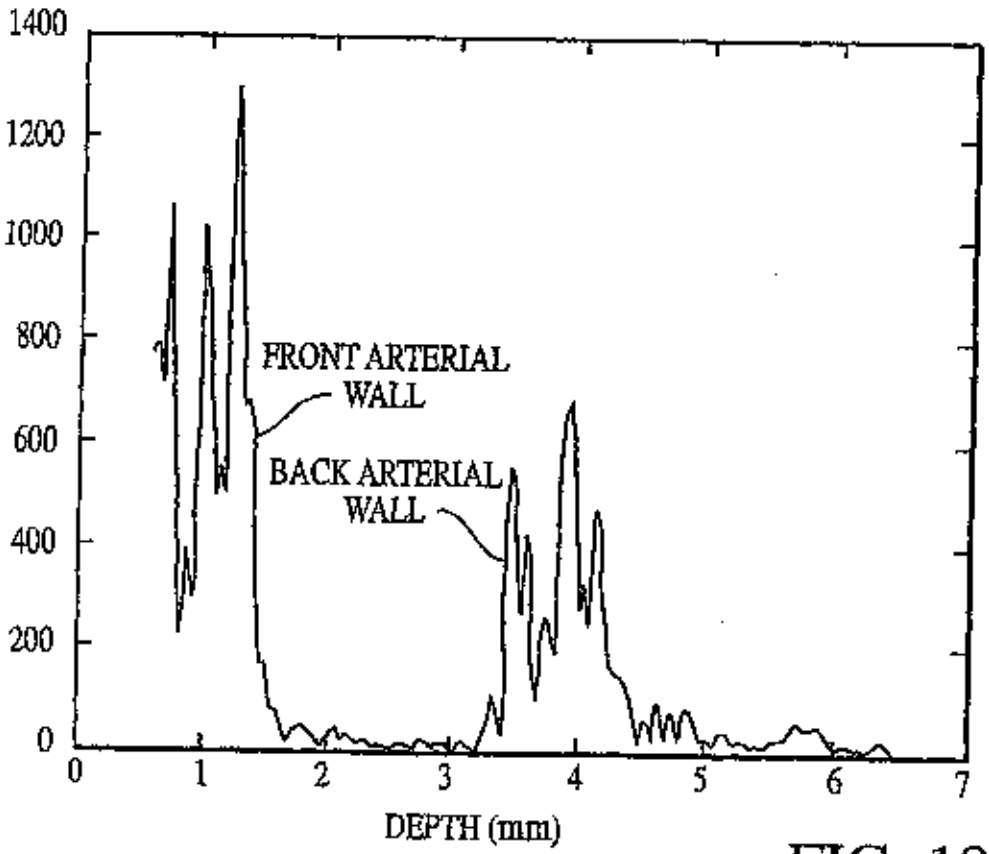


FIG. 19

23 SEP 2004

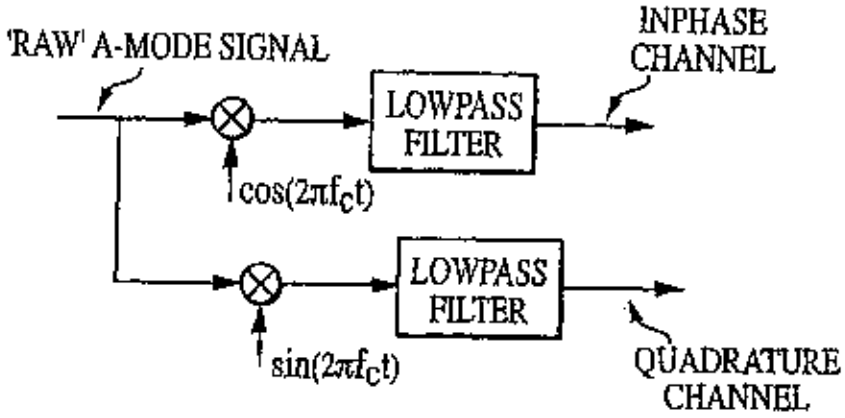


FIG. 21

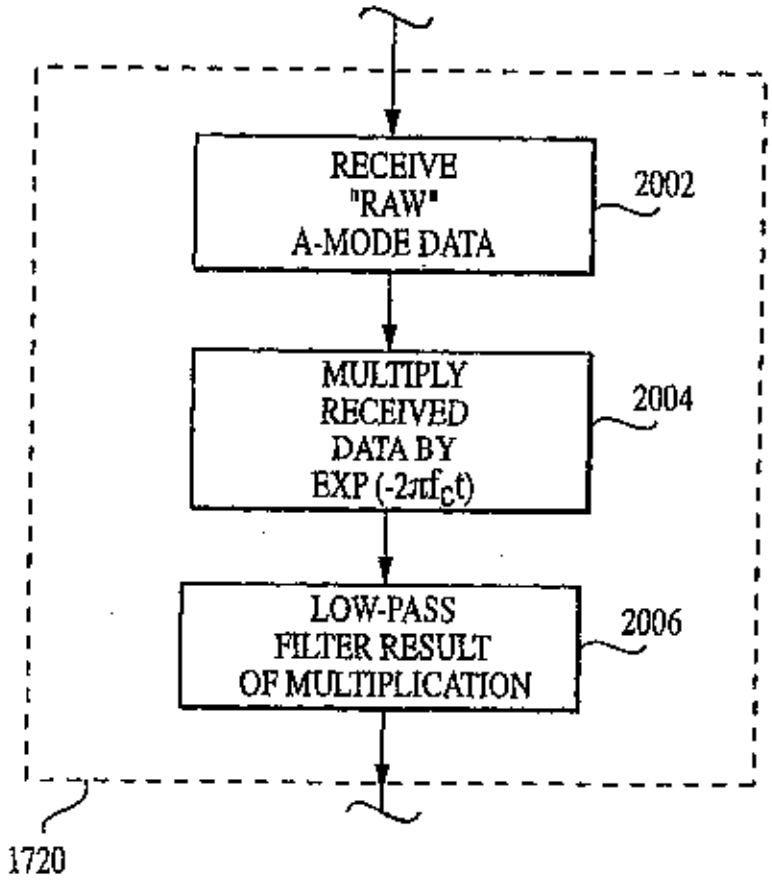


FIG. 20

23 SEP 2004

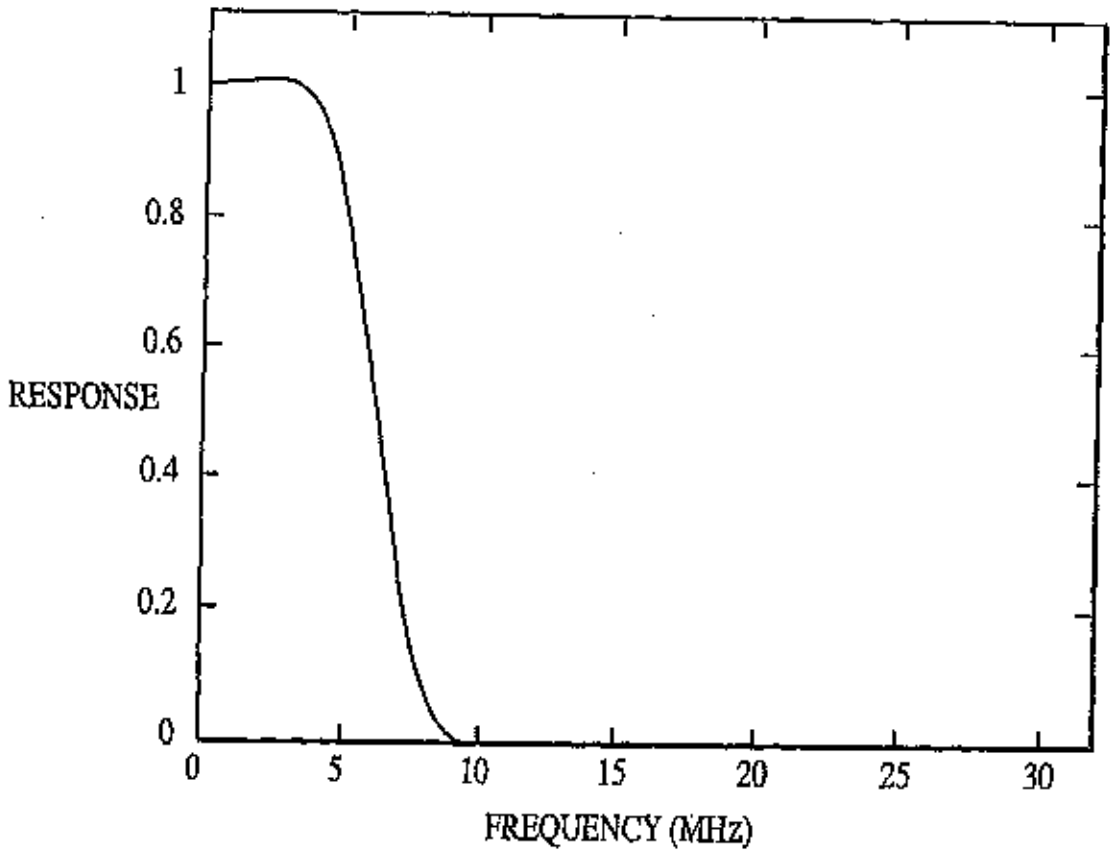


FIG. 22

23 SEP 2004

-1
-1
0
2
4
6
6
2
-6
-16
-25
-26
-16
10
50
98
143
176
188
176
143
98
50
10
-16
-26
-25
-16
-6
6
6
6
4
2
0
-1
-1

FIG. 23

23 SEP 2004

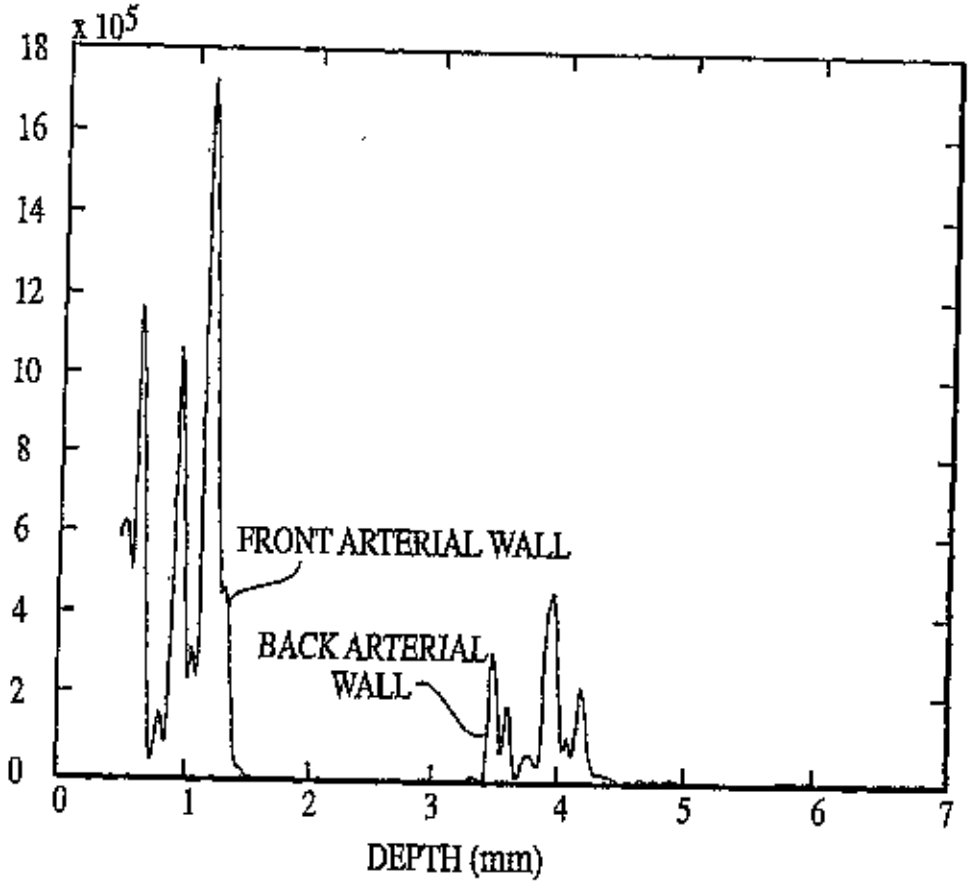


FIG. 24

23 SEP 2004

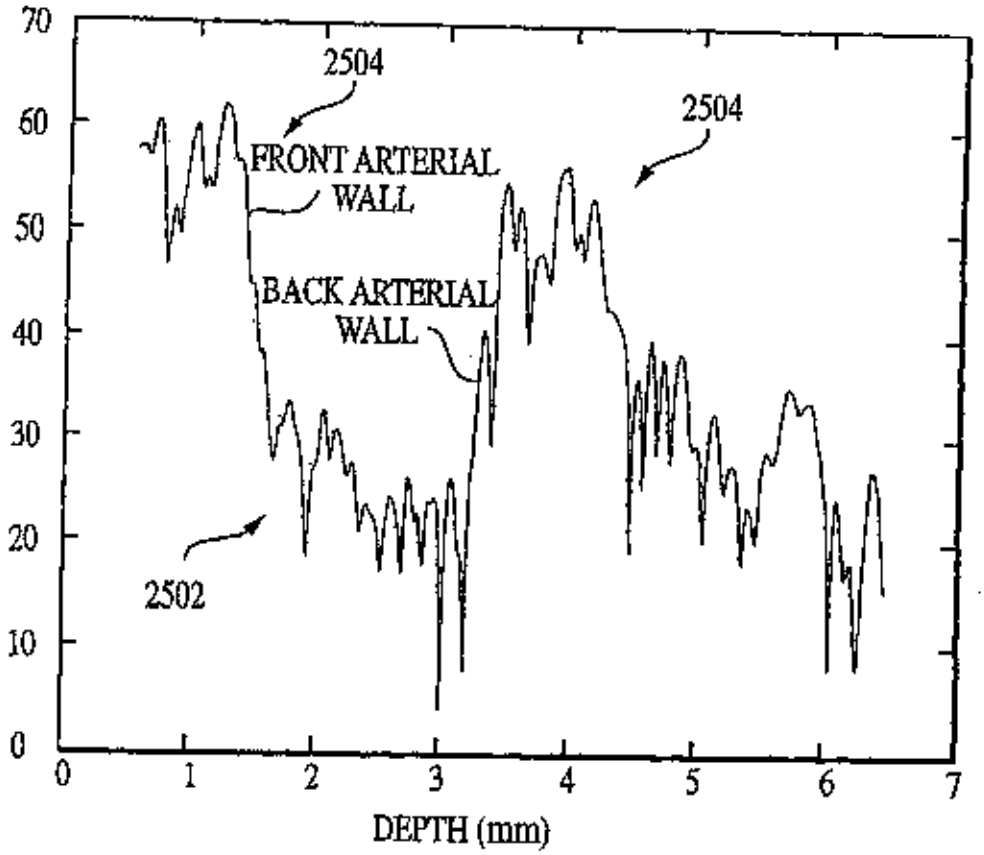


FIG. 25

23 SEP 2004

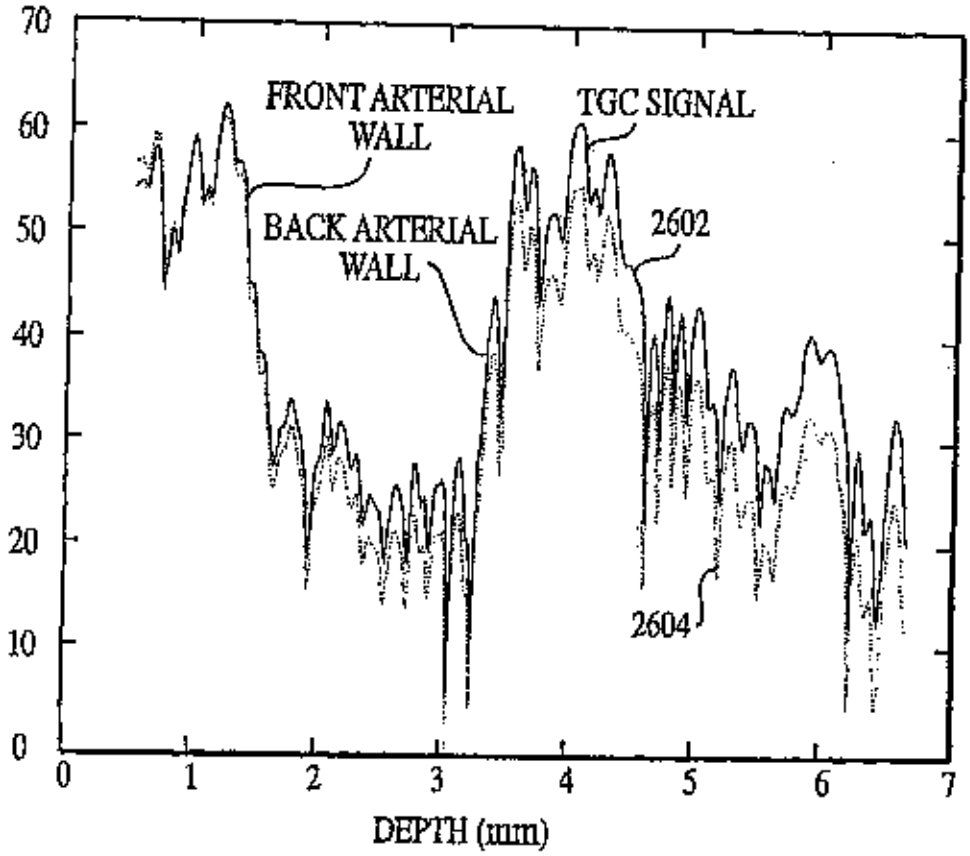


FIG. 26

20 SEP 2004

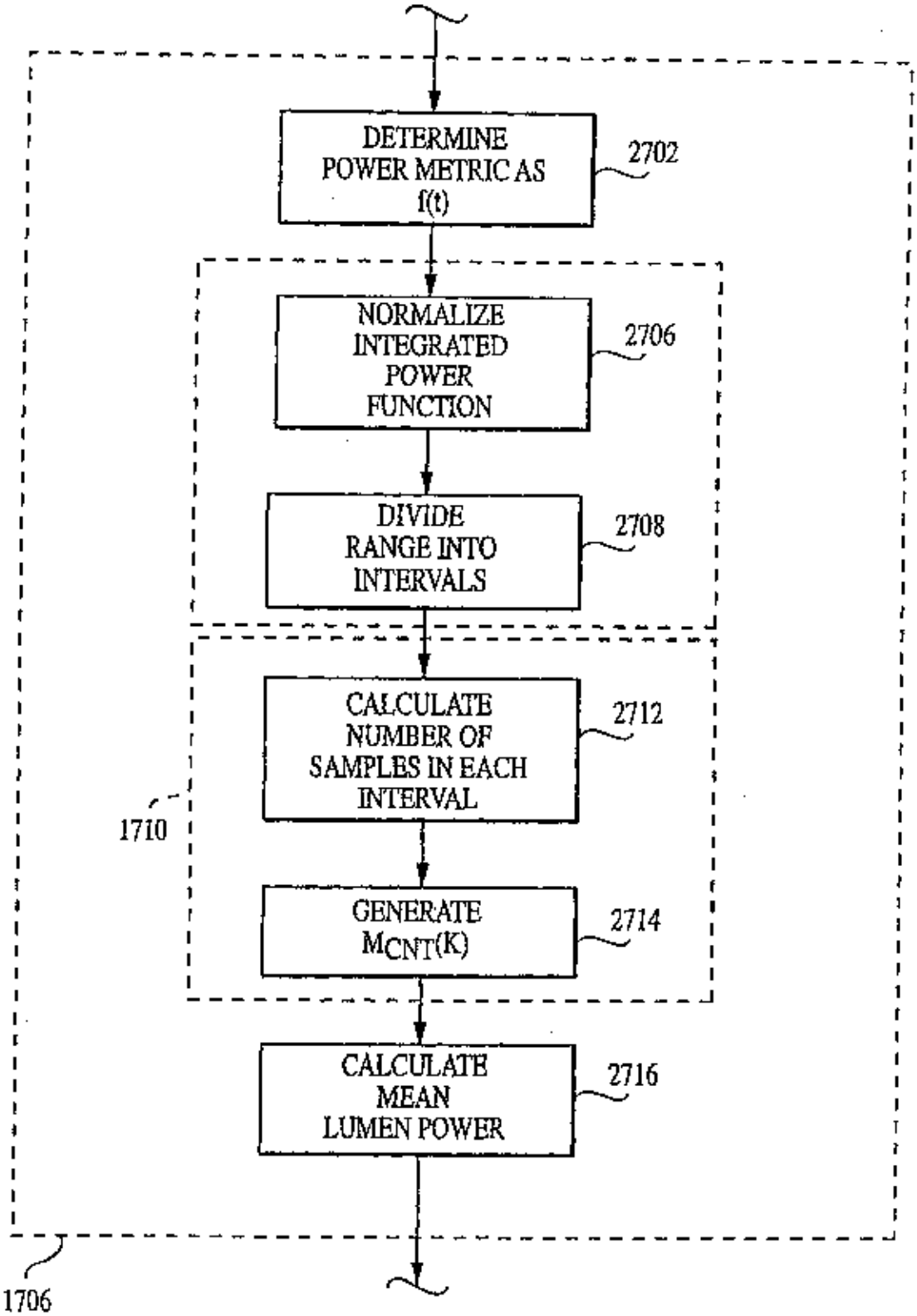


FIG. 27a

2 3 SEP 2004

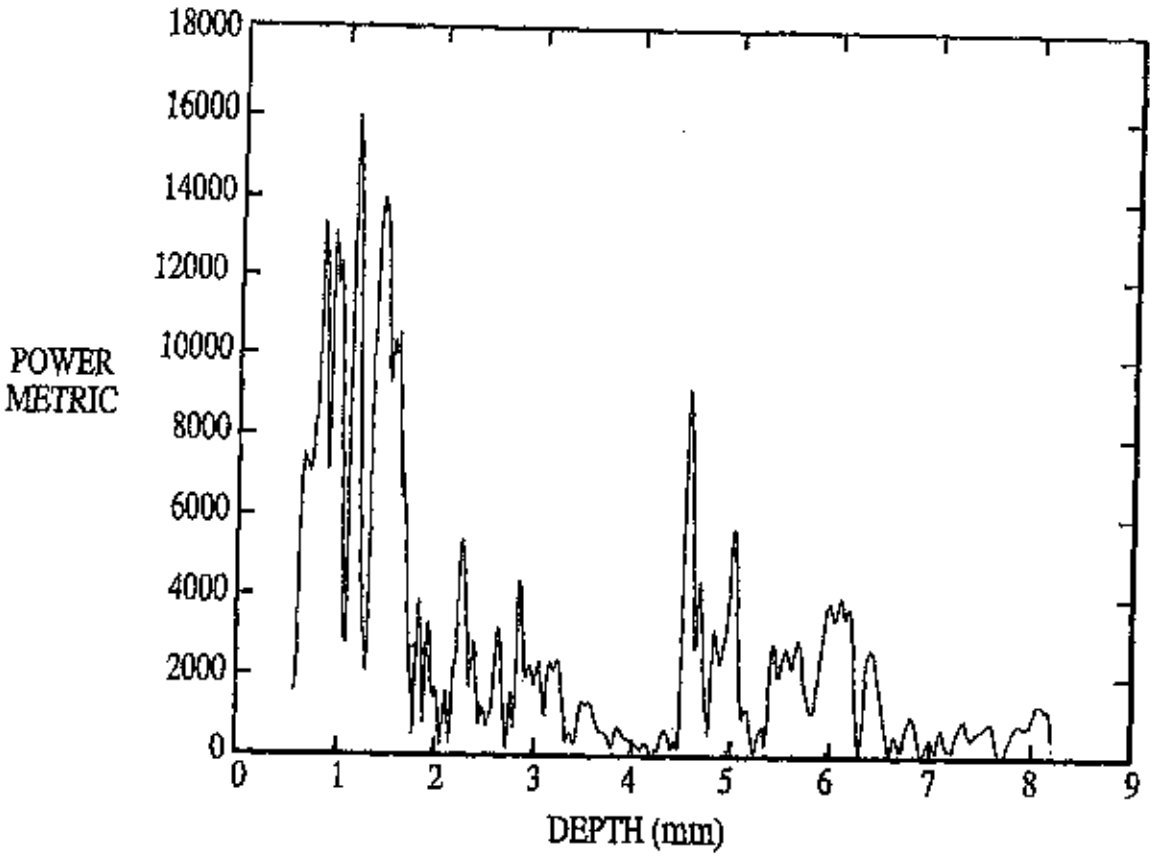


FIG. 27b

23 SEP 2004

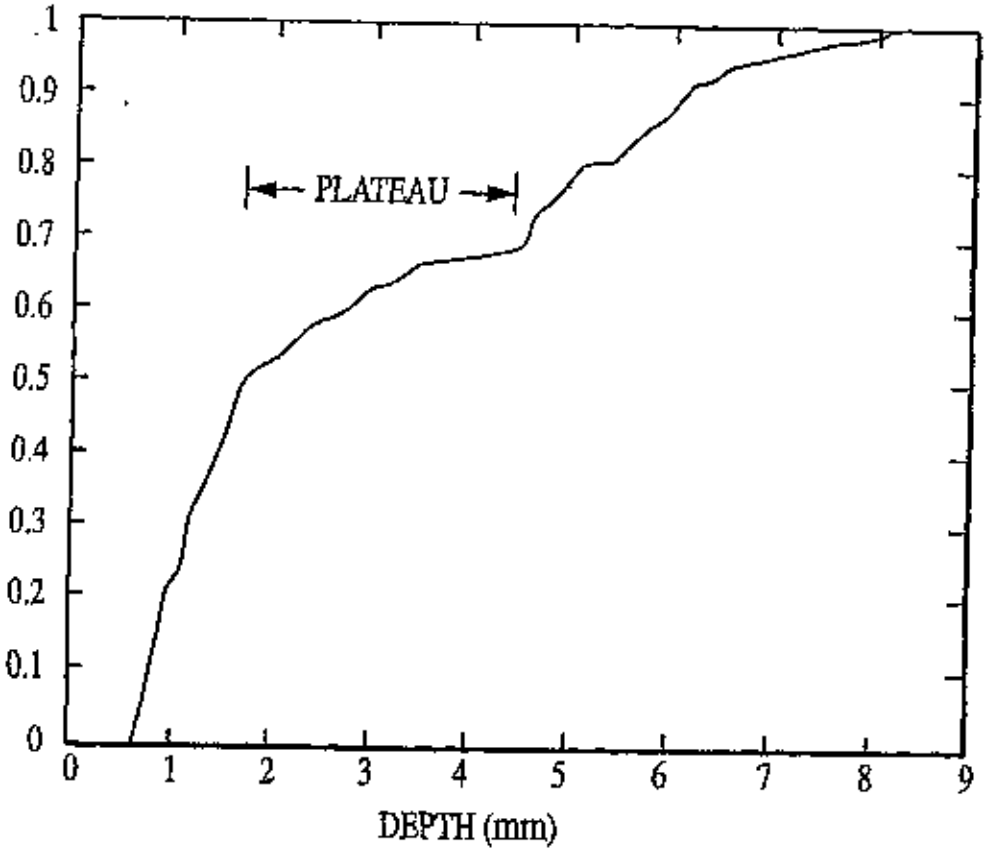


FIG. 27c

23 SEP 2004

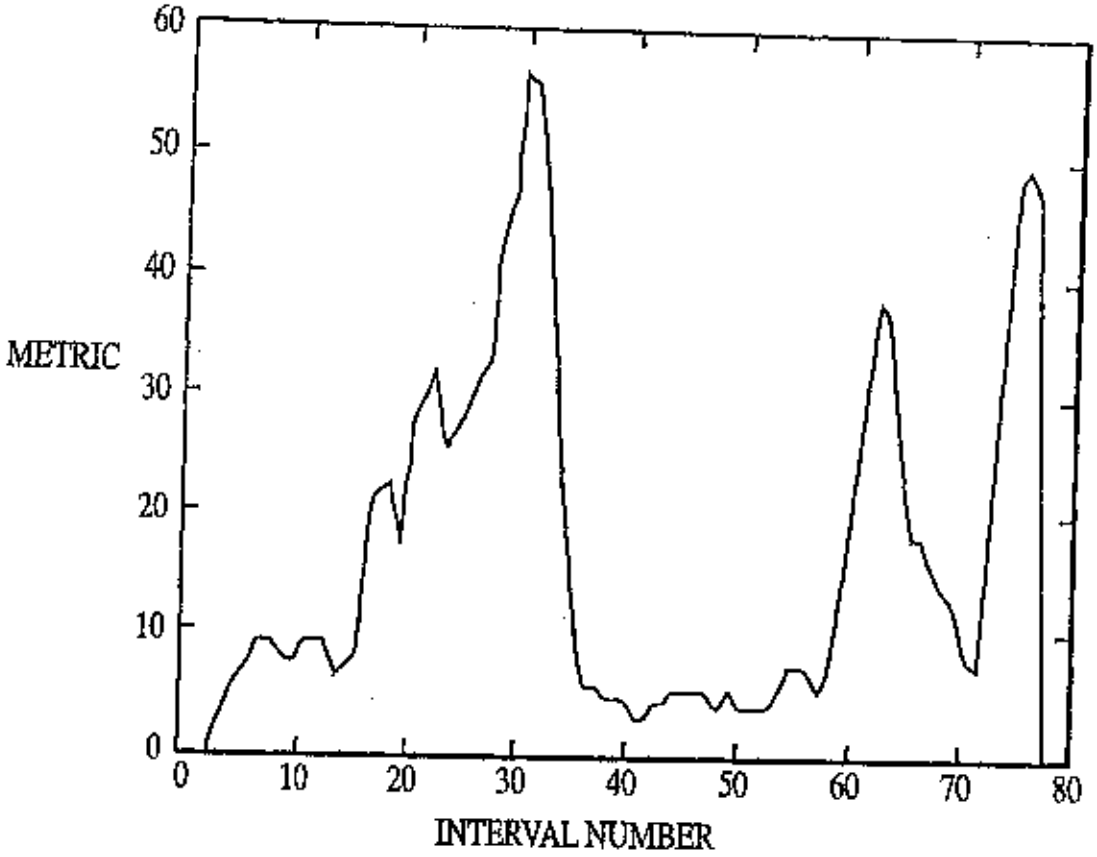


FIG. 27d

23 SEP 2004

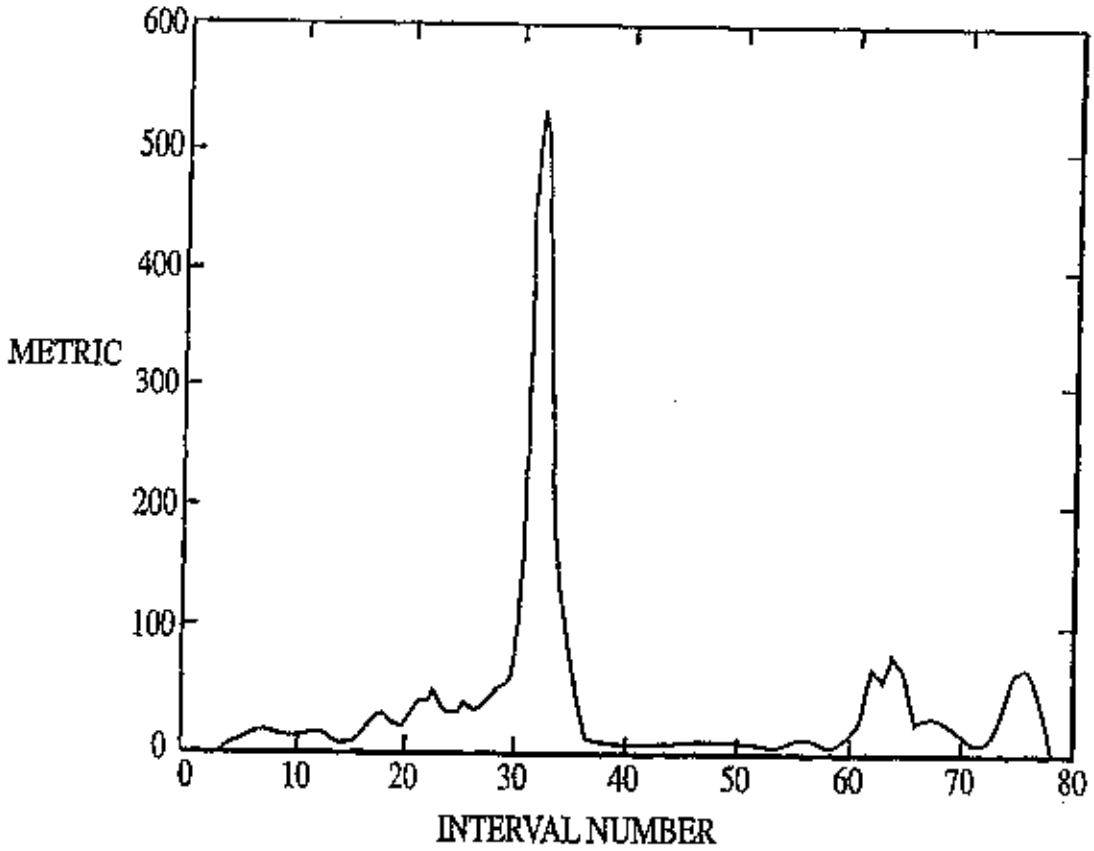


FIG. 27e

23 SEP 2004

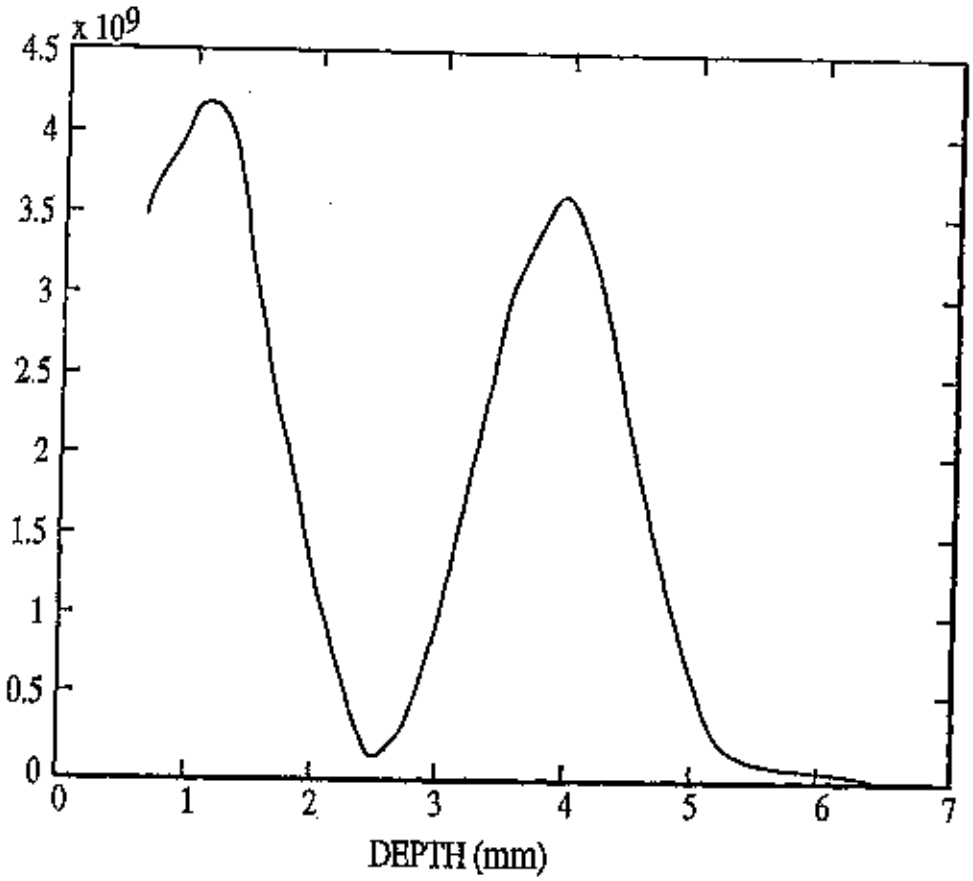


FIG. 28a

23 SEP 2004

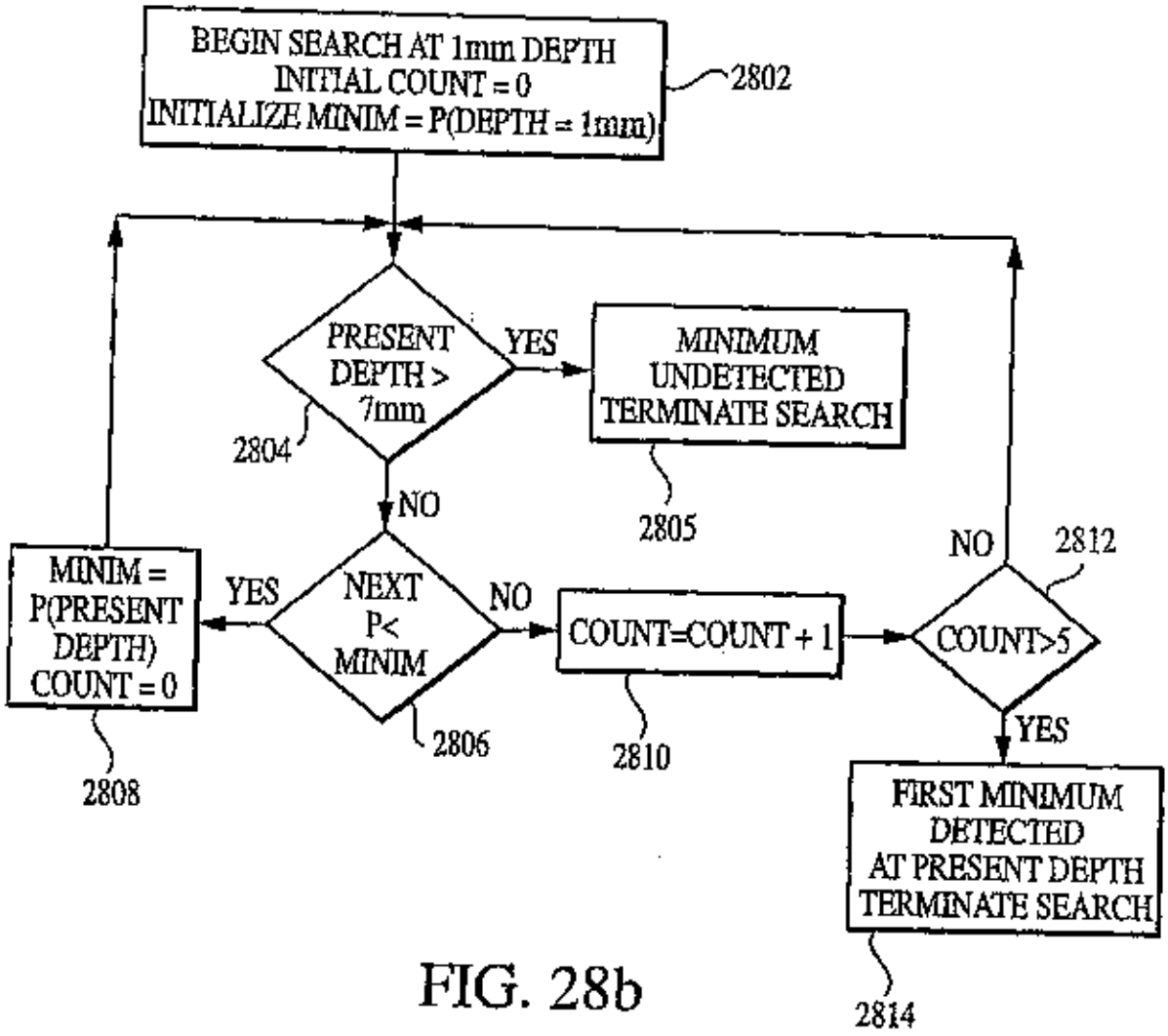


FIG. 28b

23 SEP 2004

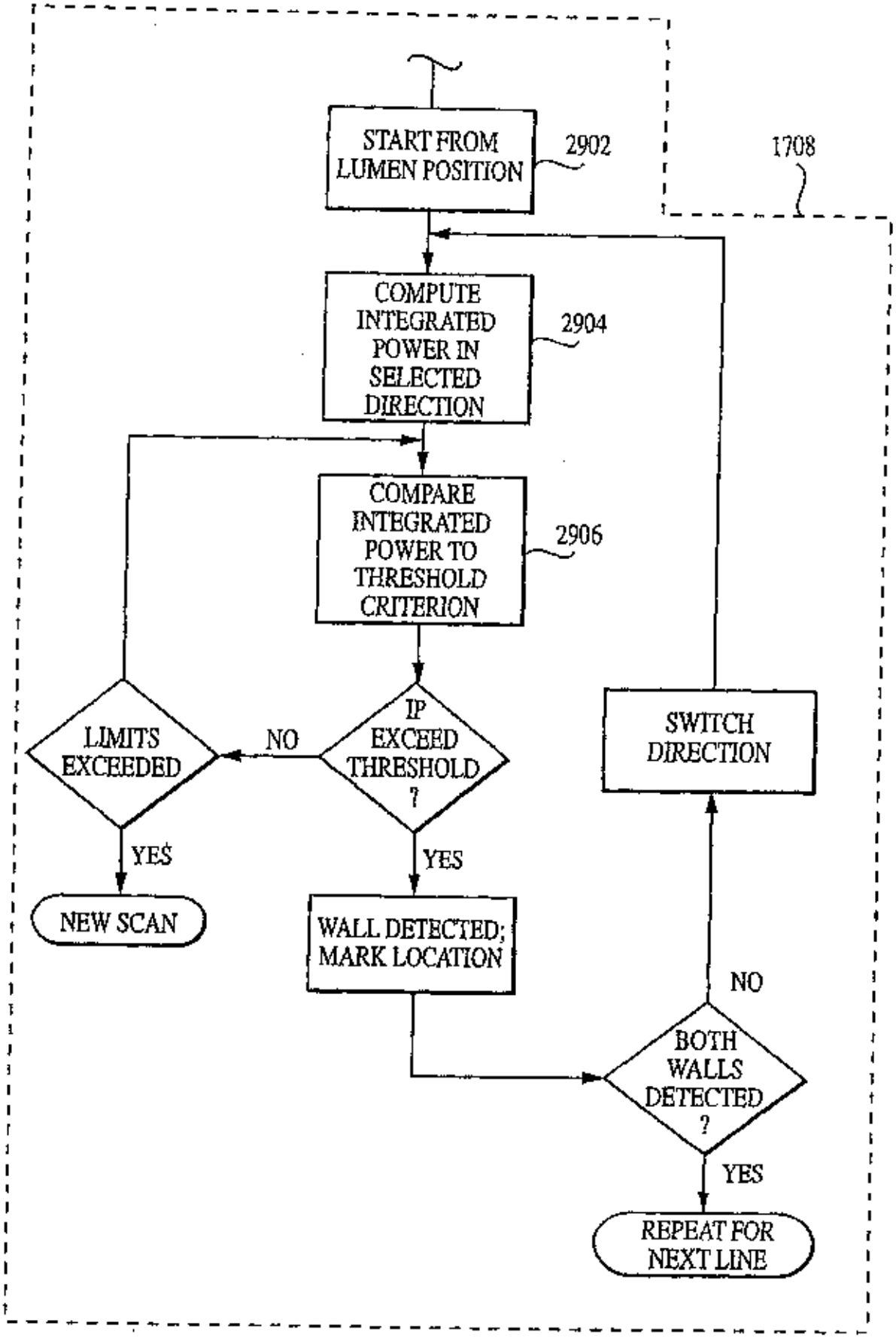


FIG. 29a

2 3 SEP 2004

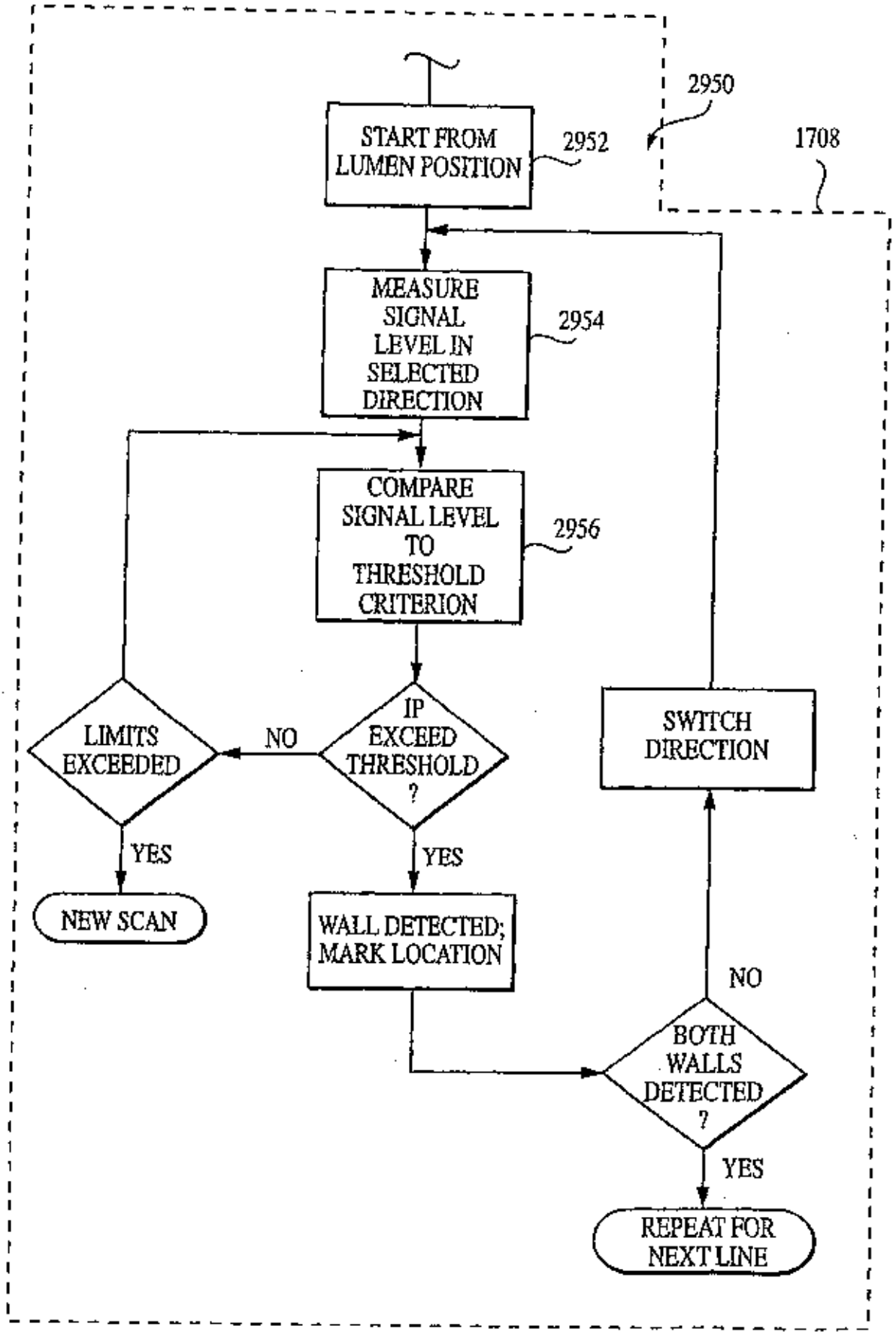


FIG. 29b

2 3 SEP 2004

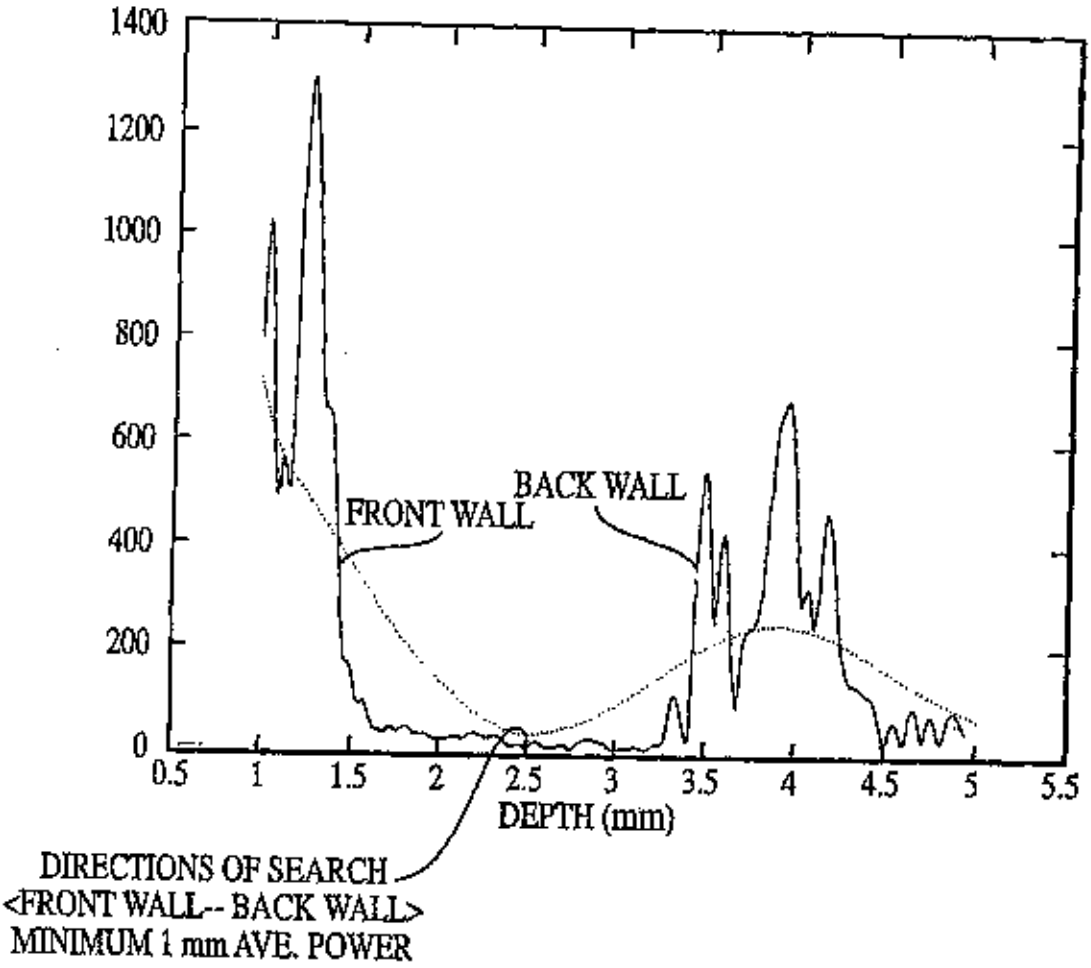


FIG. 30

2 3 SEP 2004

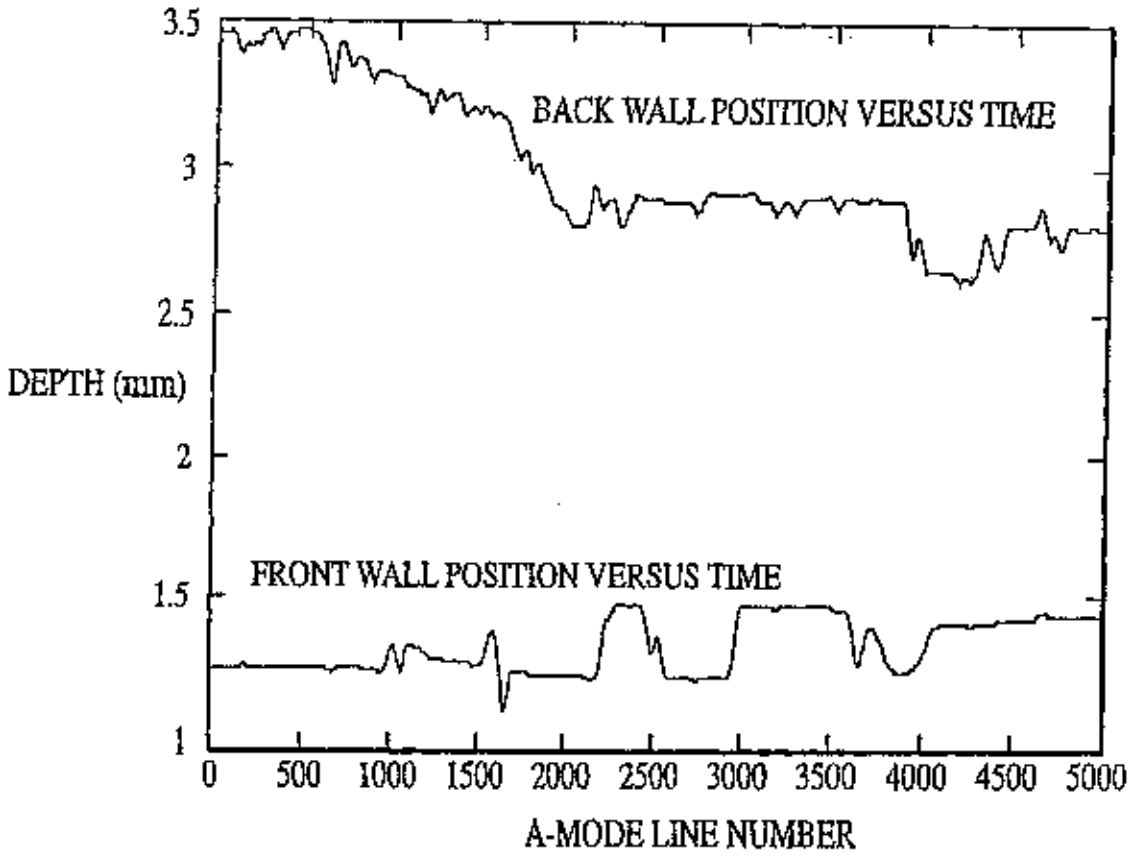


FIG. 31

23 SEP 2004

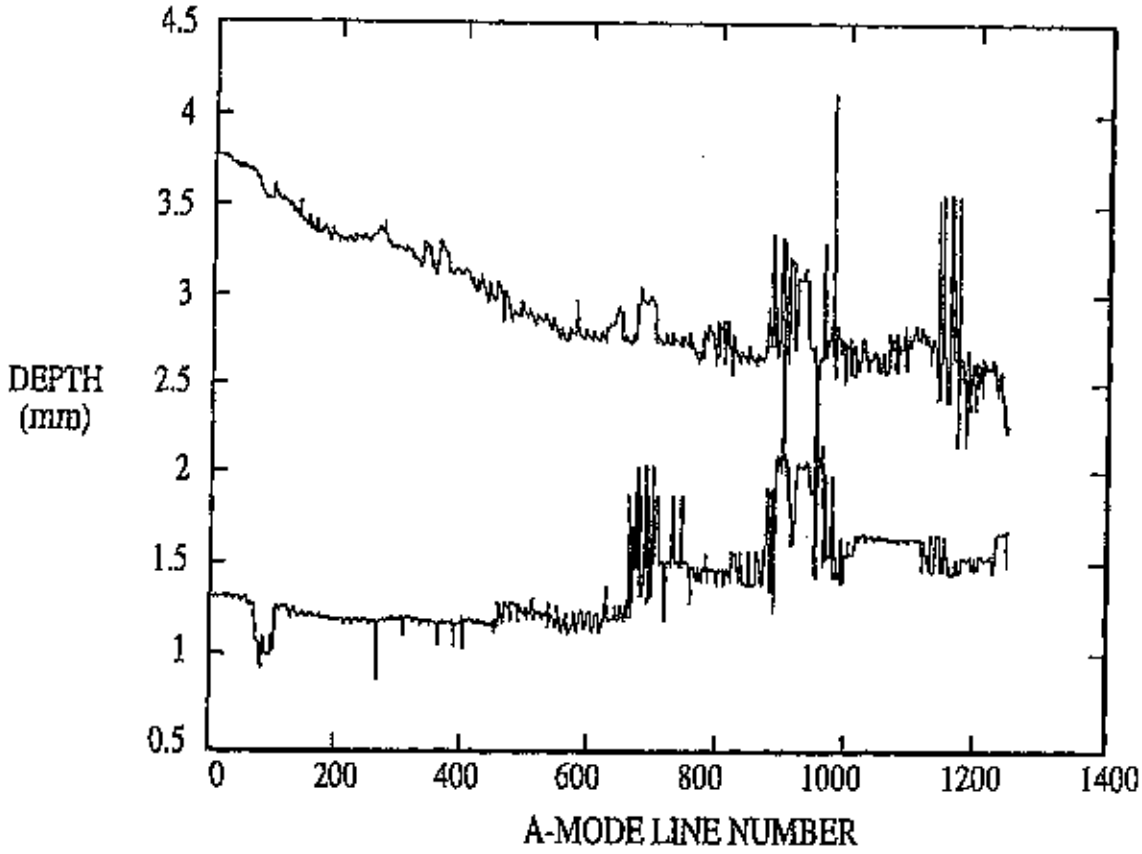


FIG. 32

23 SEP 2004

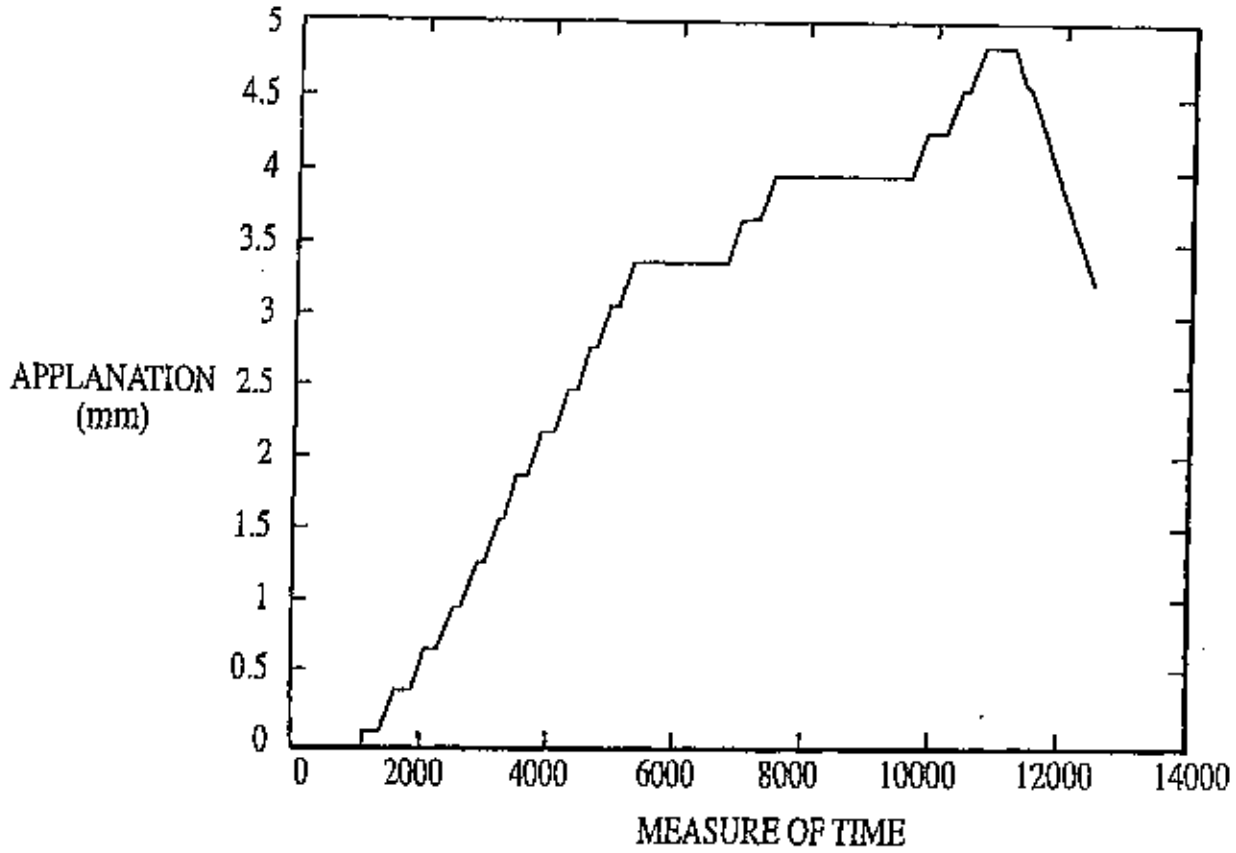


FIG. 32a

23 SEP 2004

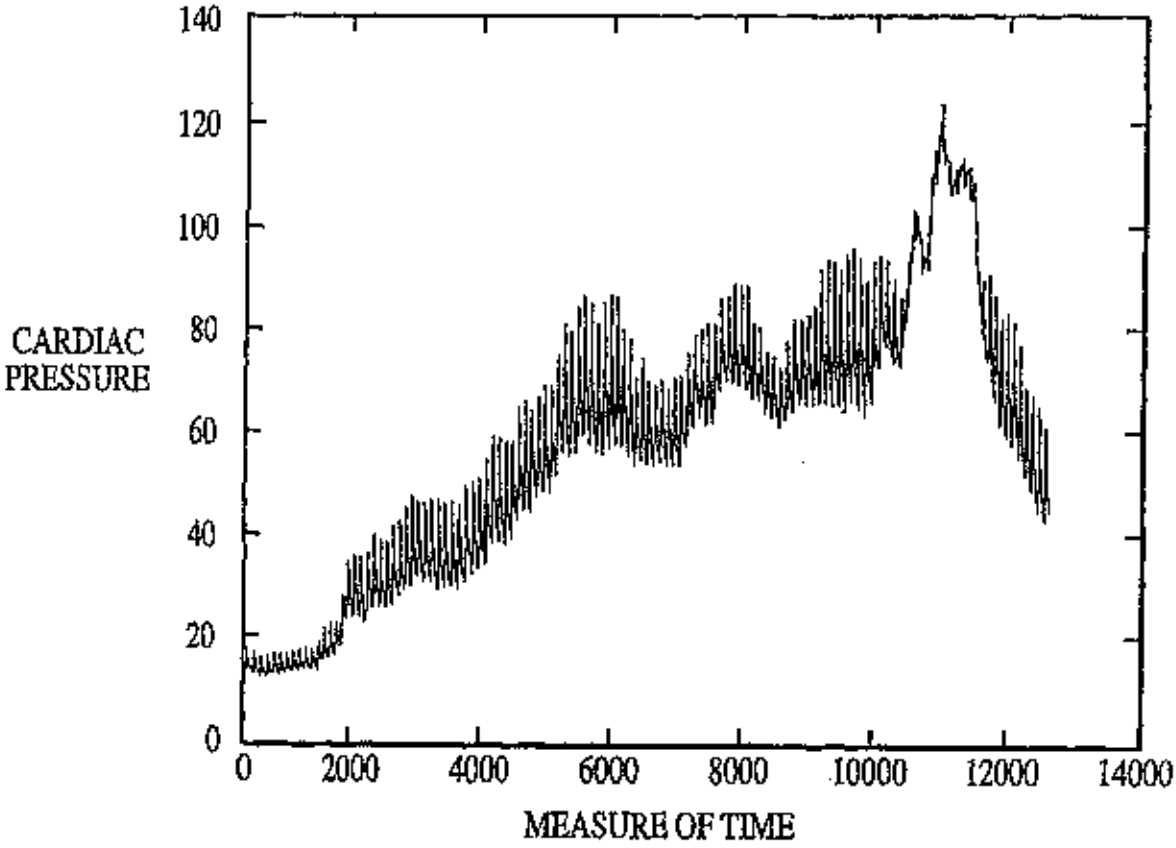


FIG. 32b

23 SEP 2004

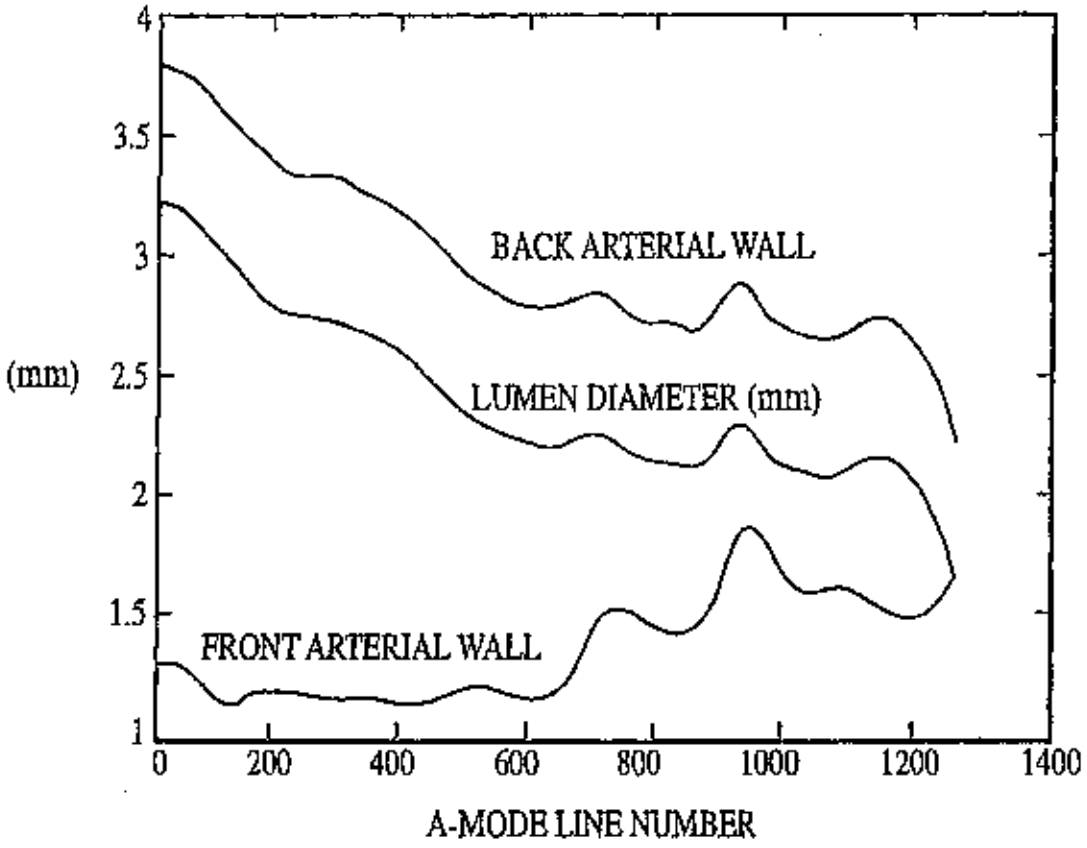


FIG. 33

23 SEP 2004

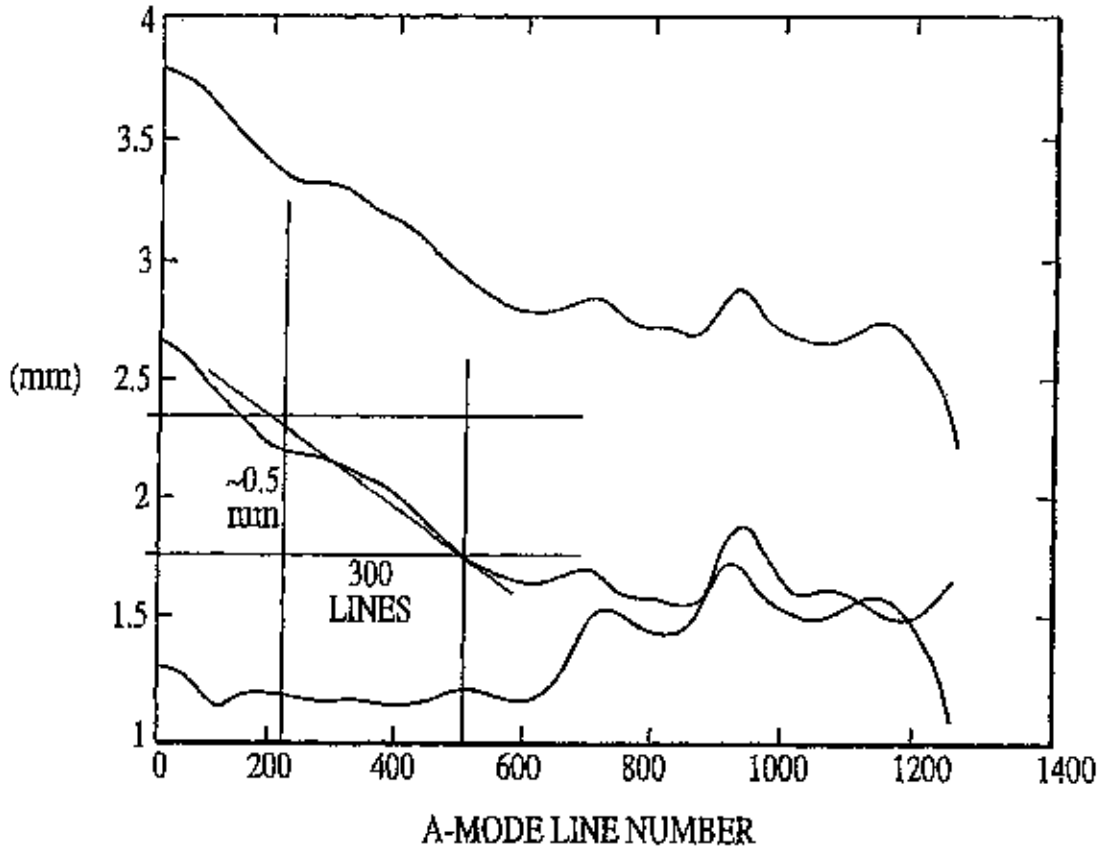


FIG. 34

23 SEP 2004

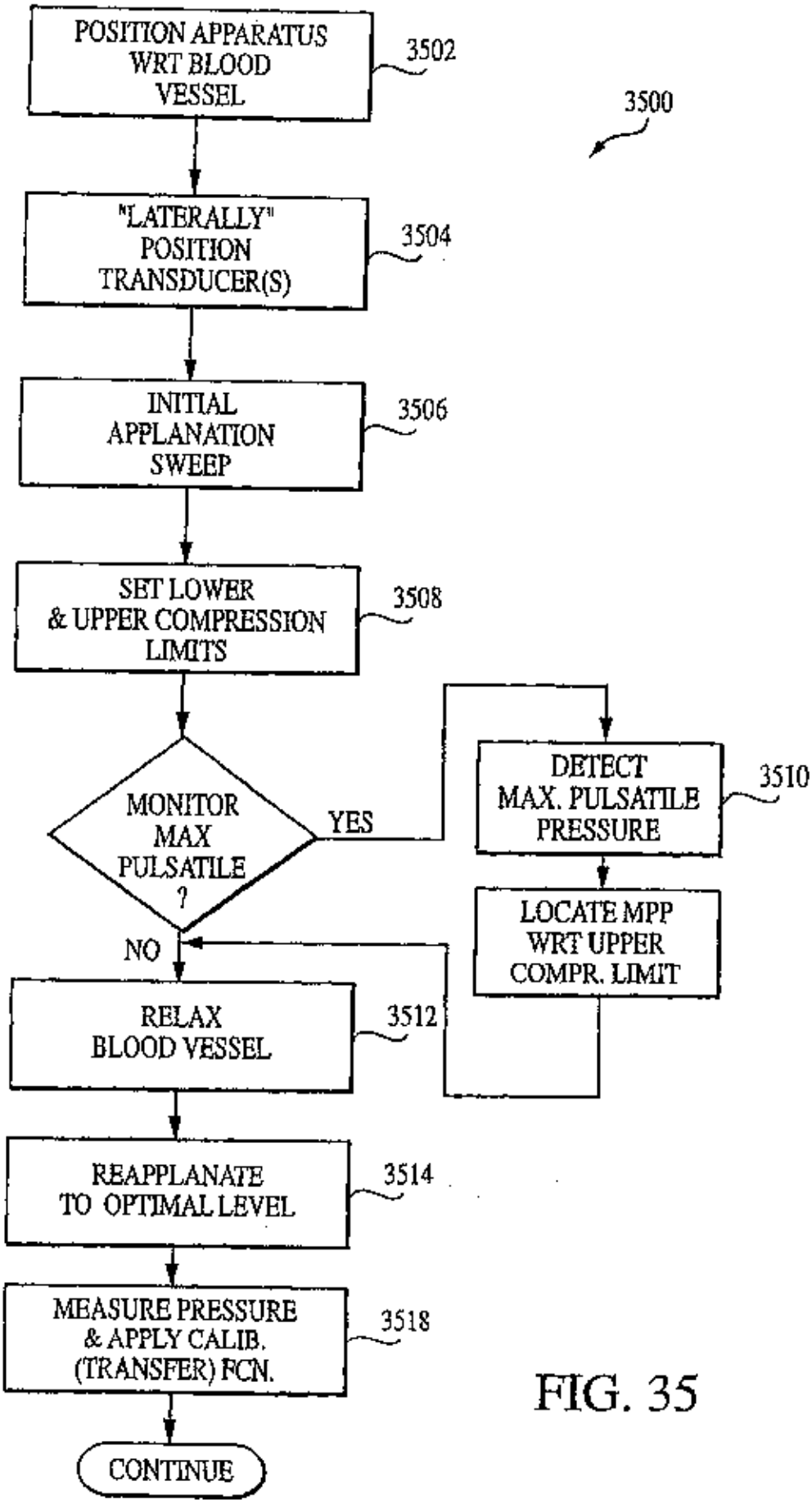


FIG. 35

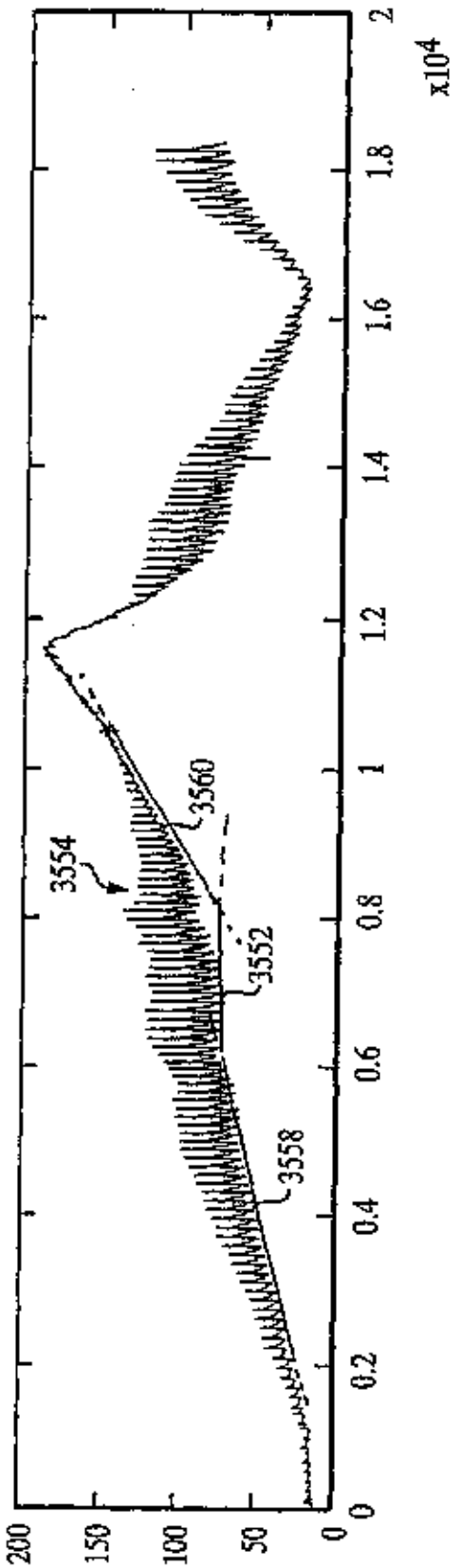

200
150
100
50
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
x10^4
3554
3560
3552
3558

FIG. 35a

23 SEP 2004

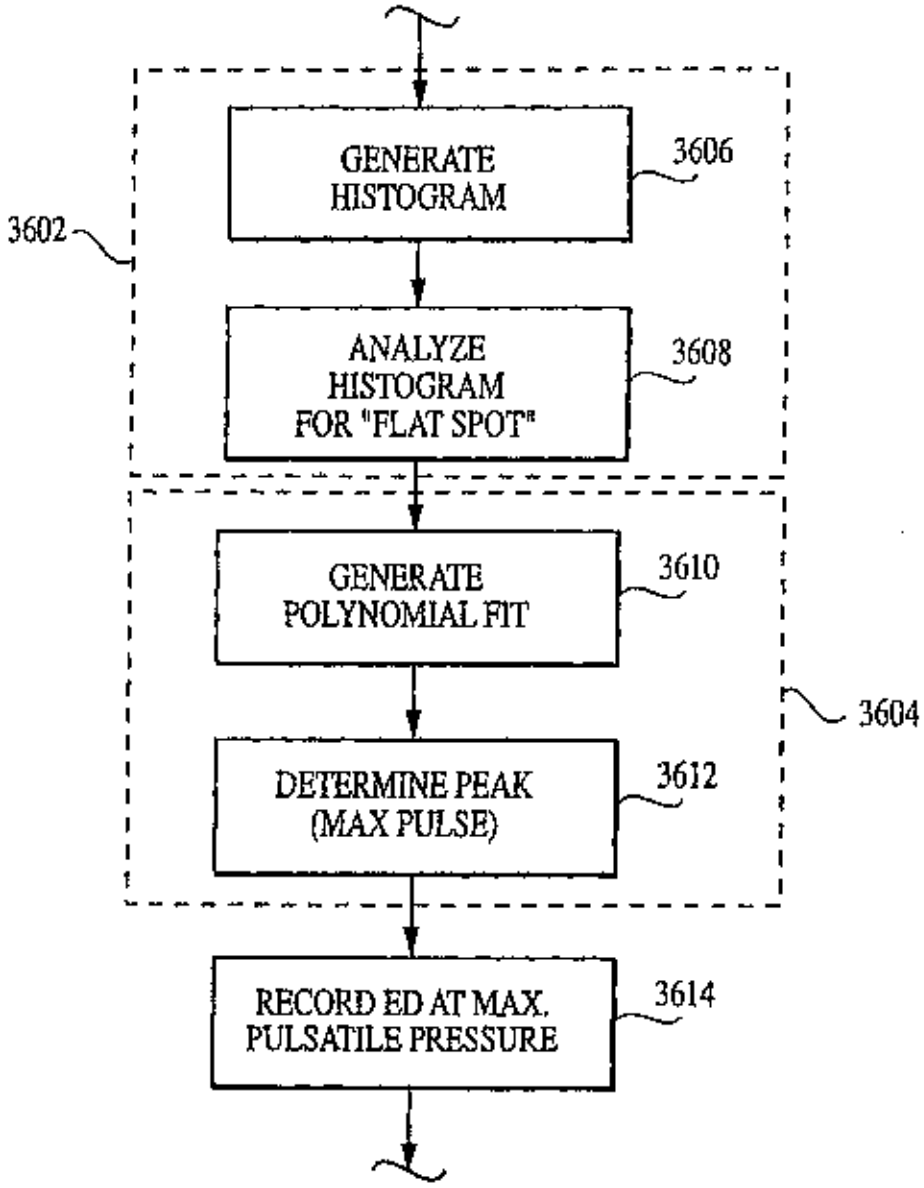


FIG. 36

23 SEP 2004

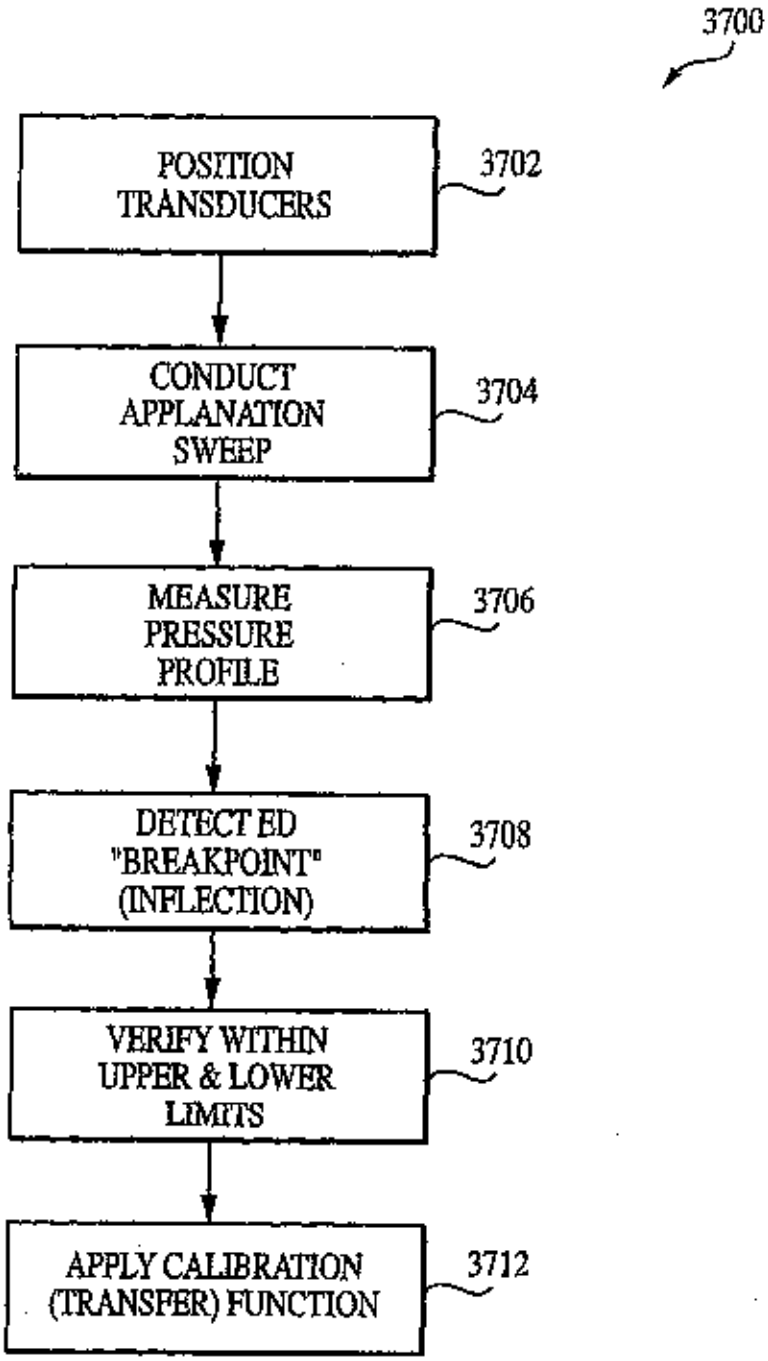
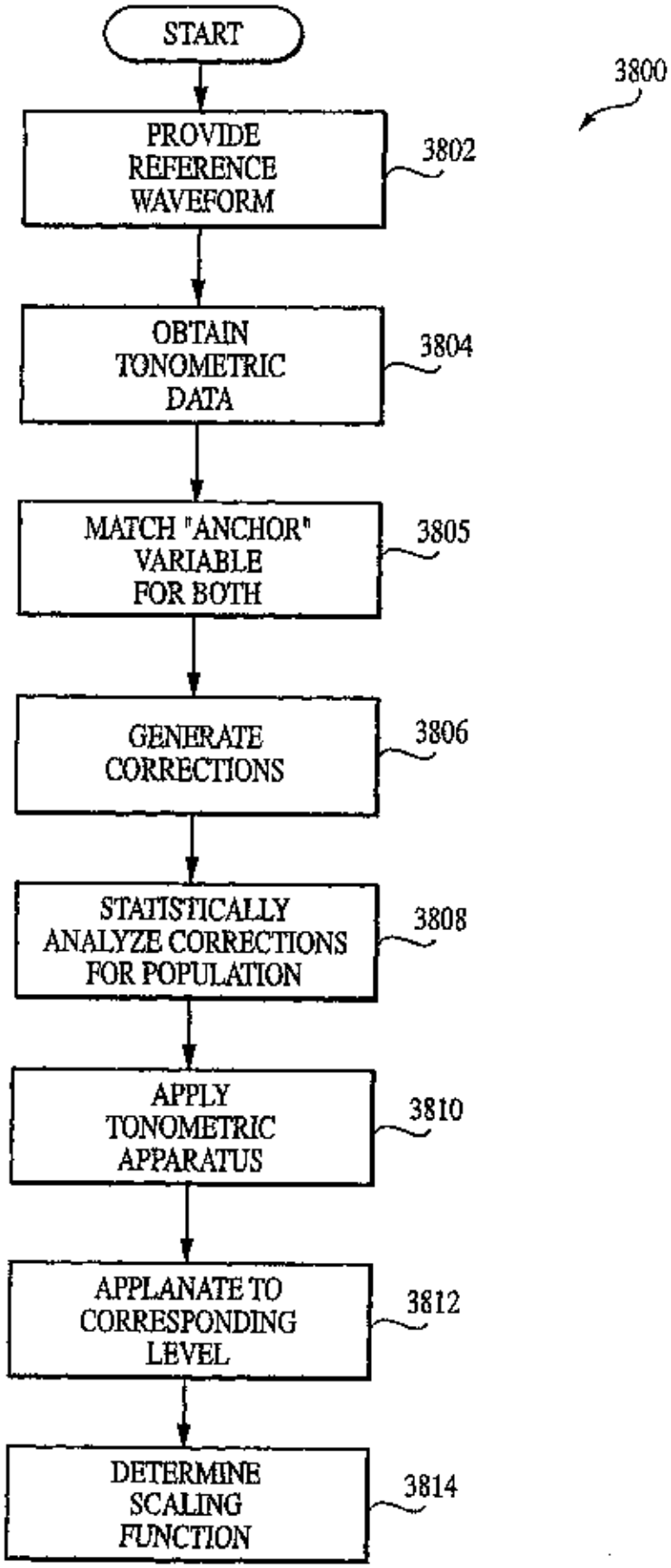


FIG. 37

FIG. 38


START
3800
PROVIDE REFERENCE WAVEFORM
3802
OBTAIN TONOMETRIC DATA
3804
MATCH "ANCHOR" VARIABLE FOR BOTH
3805
GENERATE CORRECTIONS
3806
STATISTICALLY ANALYZE CORRECTIONS FOR POPULATION
3808
APPLY TONOMETRIC APPARATUS
3810
APPLANATE TO CORRESPONDING LEVEL
3812
DETERMINE SCALING FUNCTION
3814

23 SEP 2004

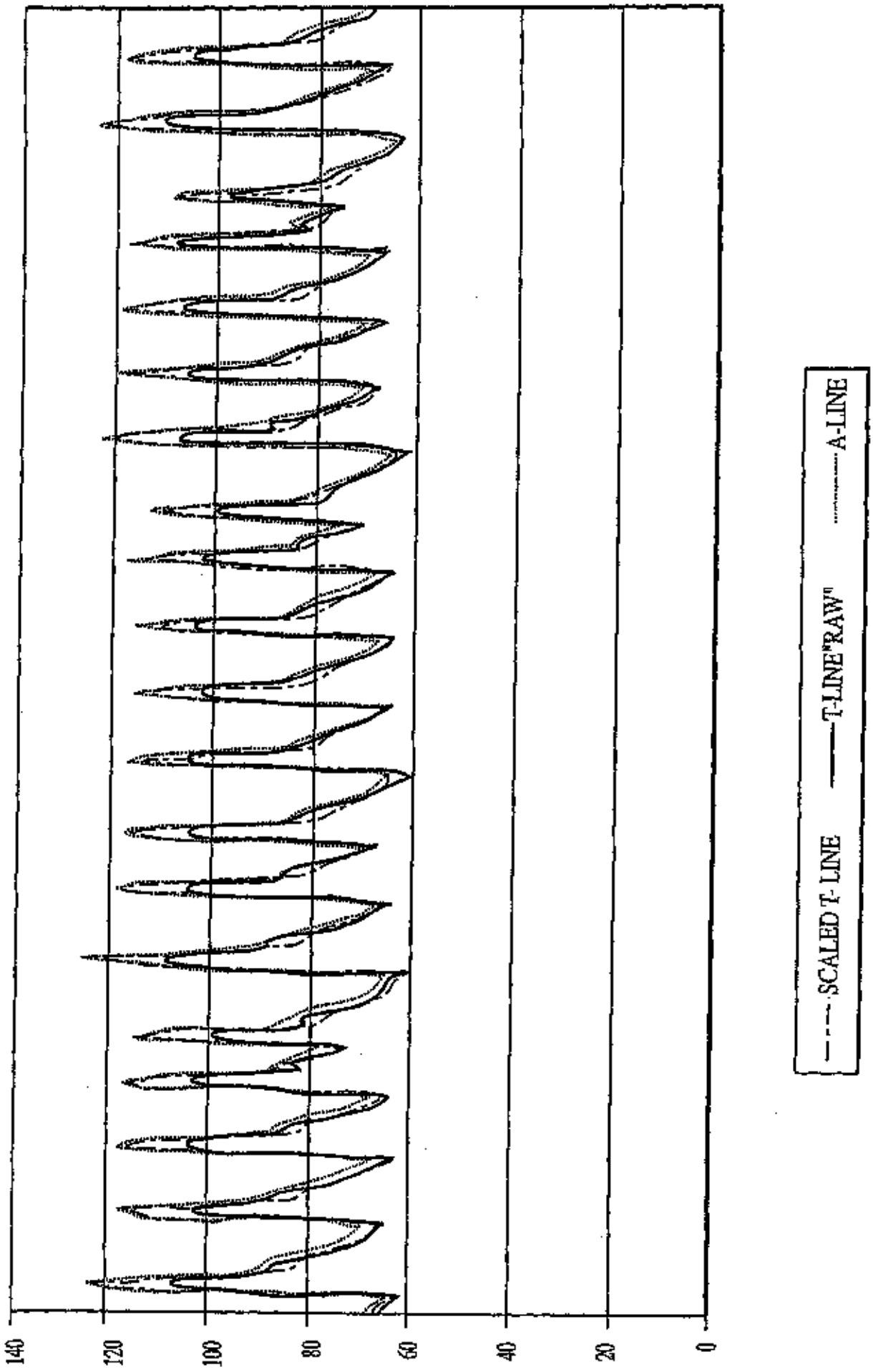


FIG. 39

23 SEP 2004

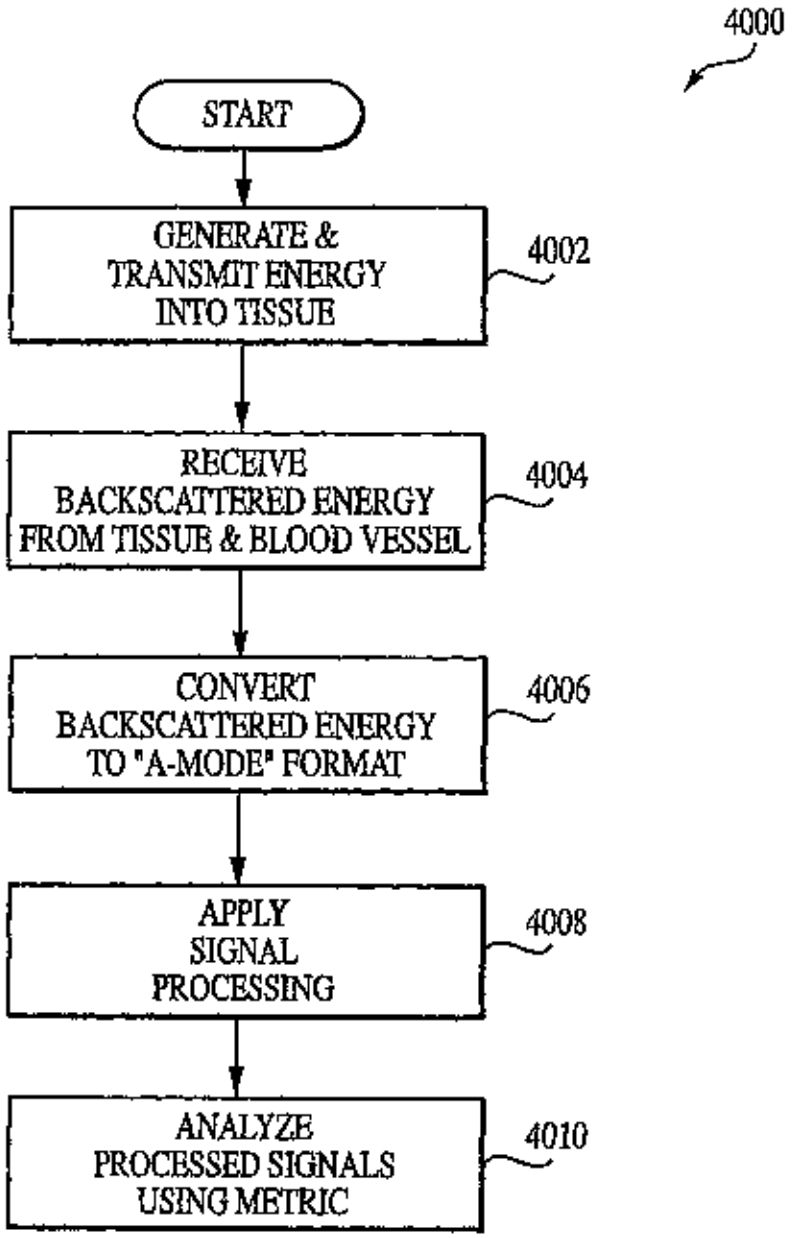


FIG. 40

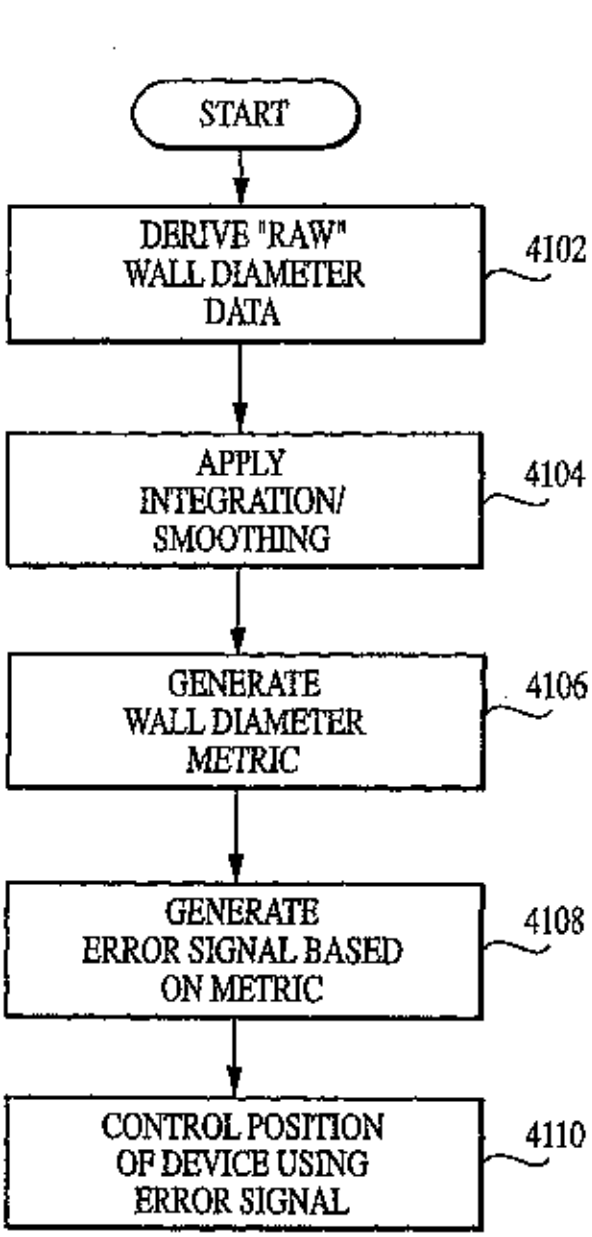

4100
START
DERIVE "RAW" WALL DIAMETER DATA
4102
APPLY INTEGRATION/ SMOOTHING
4104
GENERATE WALL DIAMETER METRIC
4106
GENERATE ERROR SIGNAL BASED ON METRIC
4108
CONTROL POSITION OF DEVICE USING ERROR SIGNAL
4110

FIG. 41