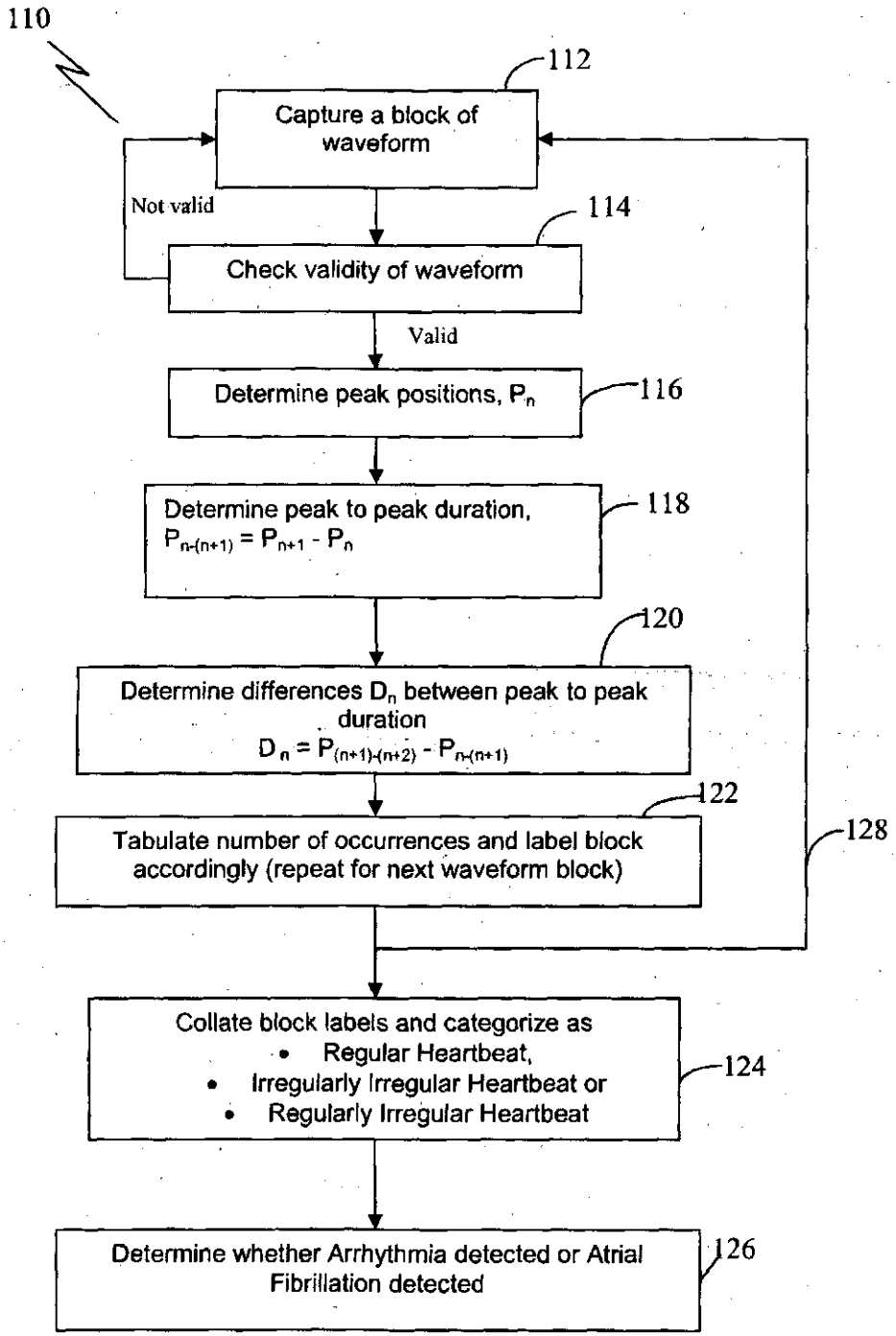

110
112
Capture a block of waveform
Not valid
114
Check validity of waveform
Valid
Determine peak positions, P_n
116
Determine peak to peak duration, $P_{n-(n+1)} = P_{n+1} - P_n$
118
120
Determine differences D_n between peak to peak duration
$D_n = P_{(n+1)-(n+2)} - P_{n-(n+1)}$
122
Tabulate number of occurrences and label block accordingly (repeat for next waveform block)
128
Collate block labels and categorize as
• Regular Heartbeat,
• Irregularly Irregular Heartbeat or
• Regularly Irregular Heartbeat
124
Determine whether Arrhythmia detected or Atrial Fibrillation detected
126

FIGURE 1

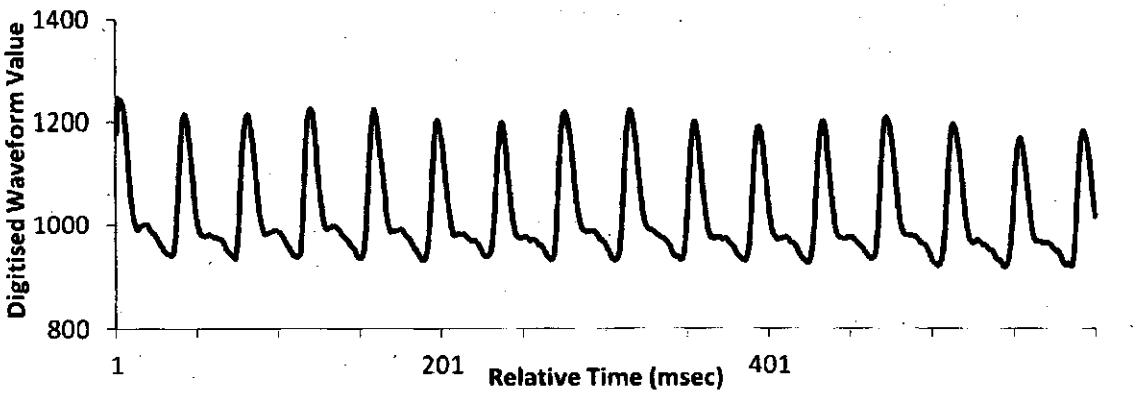


FIGURE 2a

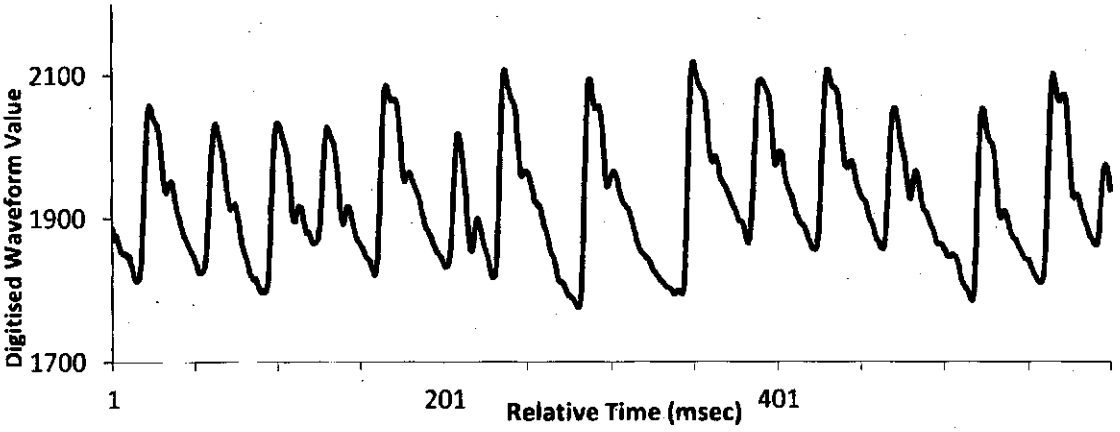


FIGURE 2b

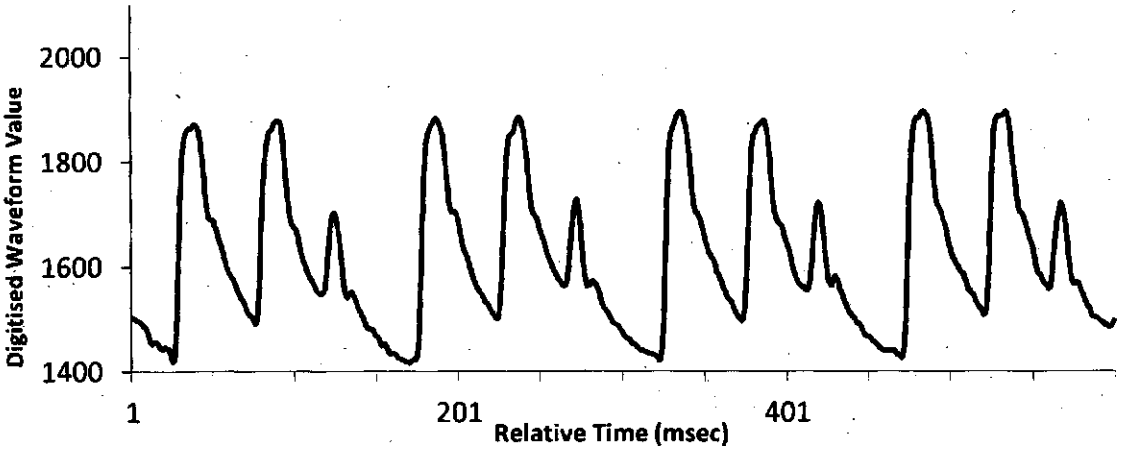


FIGURE 2c

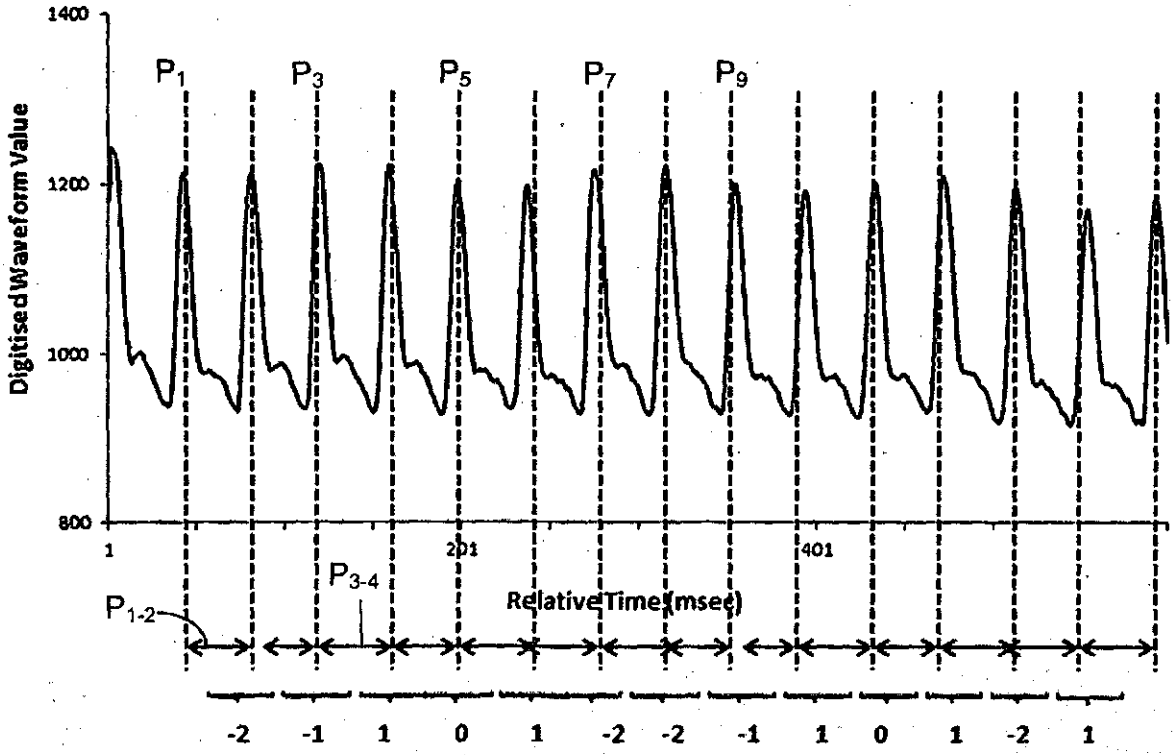


FIGURE 3a

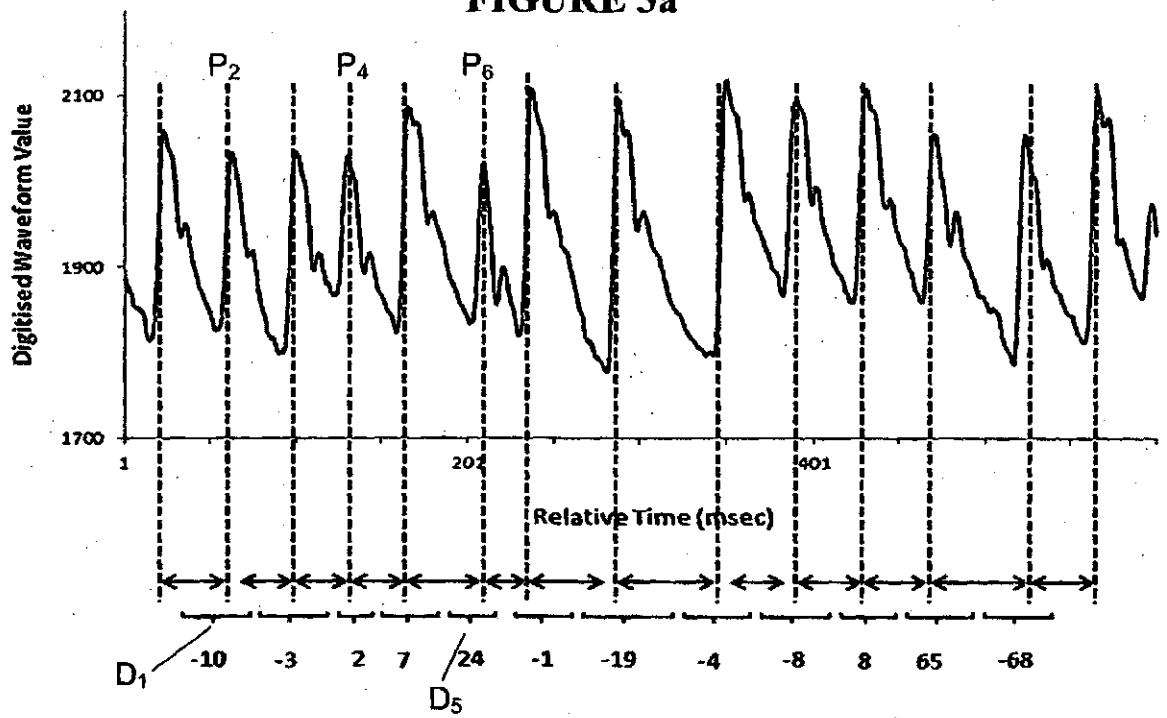


FIGURE 3b

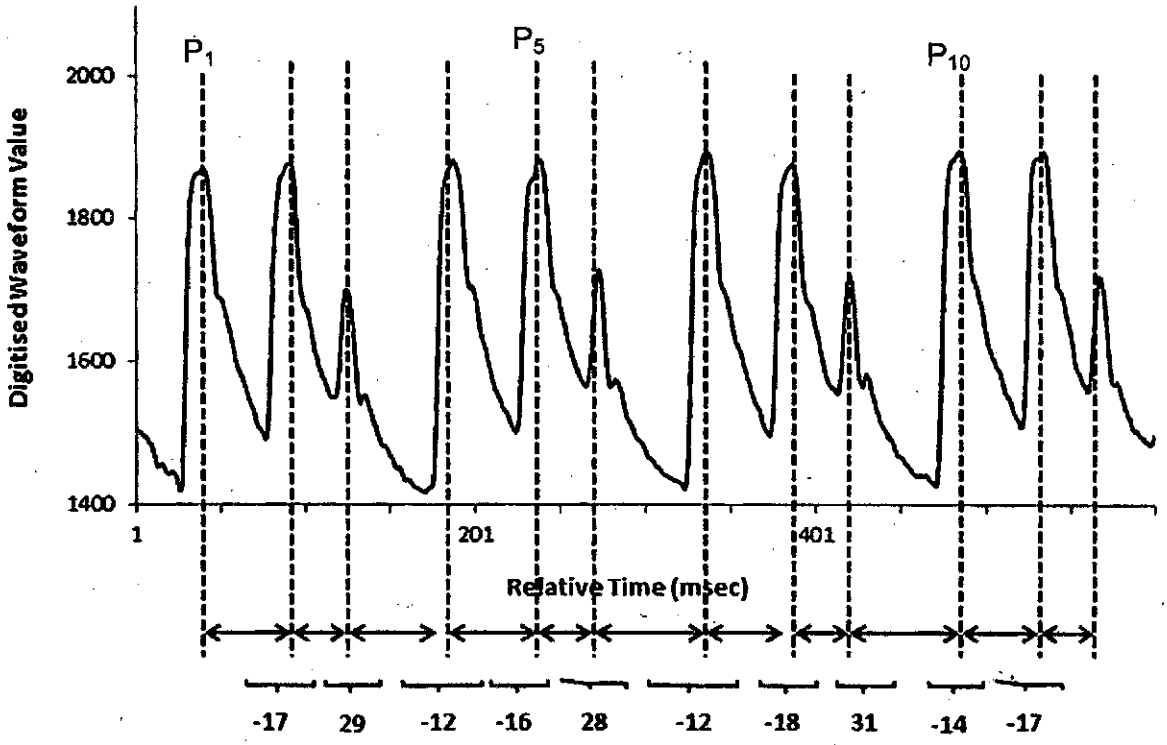

P1
P5
P10
2000
1800
1600
1400
Digitised Waveform Value
1
201
401
Relative Time (msec)
-17
29
-12
-16
28
-12
-18
31
-14
-17

FIGURE 3c

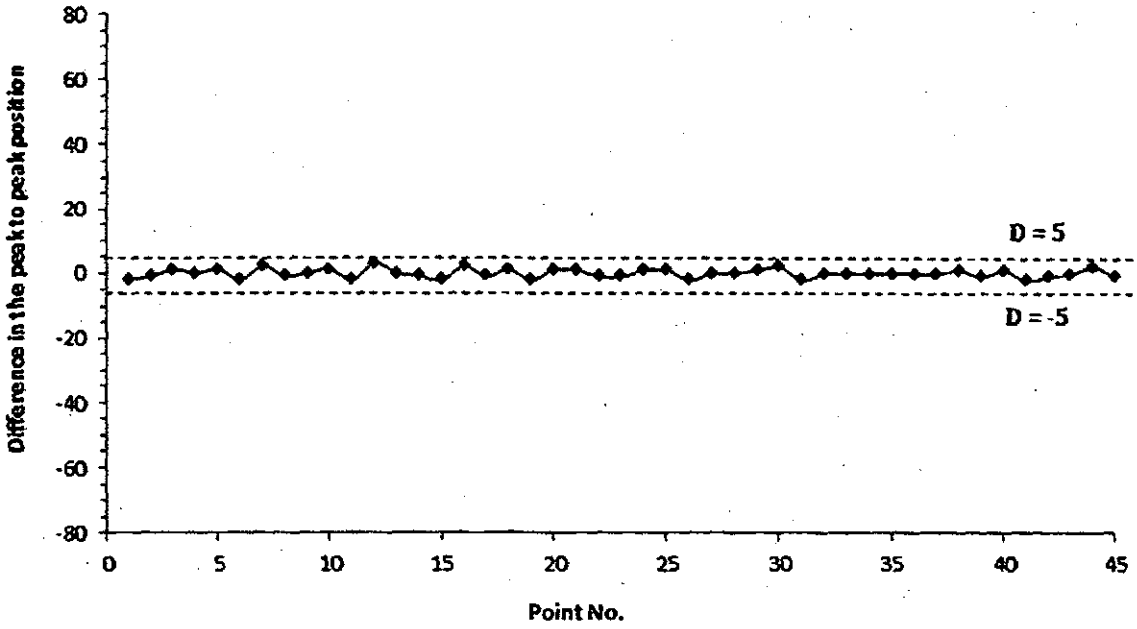


FIGURE 4a

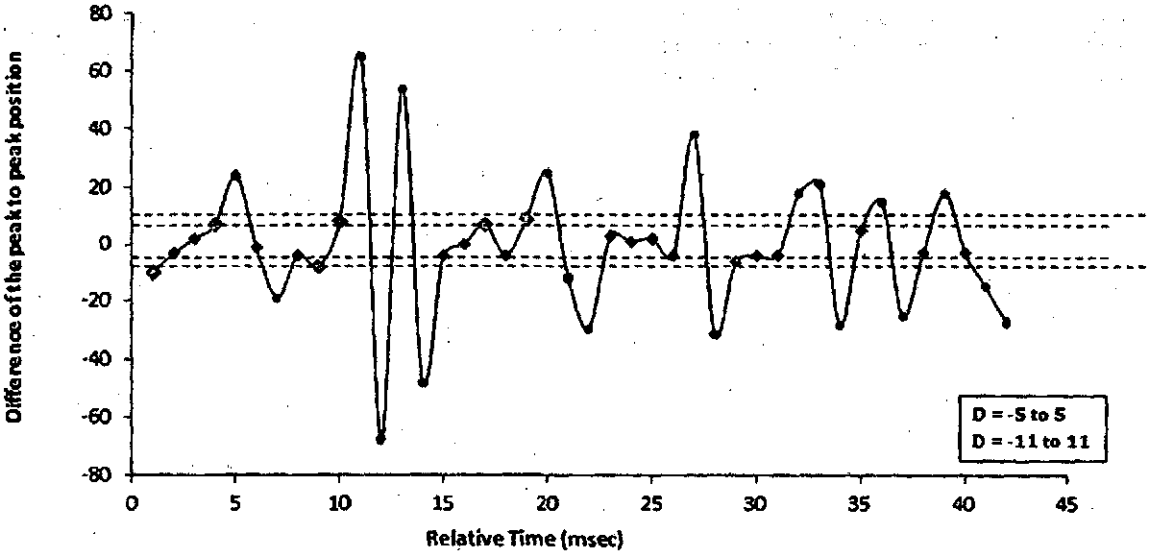


FIGURE 4b

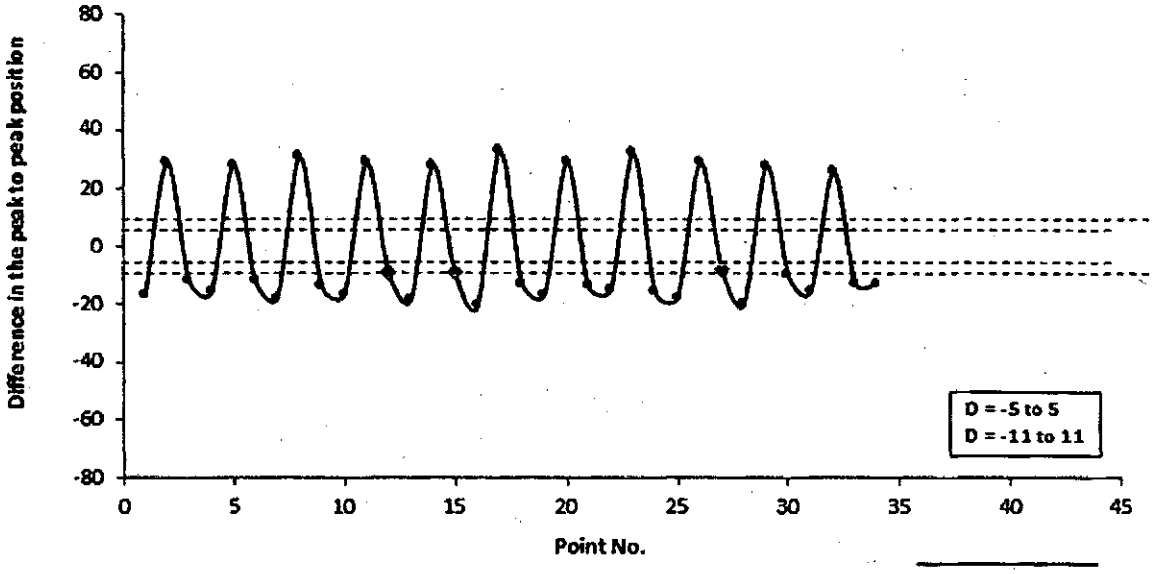

Difference in the peak to peak position
80
60
40
20
0
-20
-40
-60
-80
0
5
10
15
20
25
30
35
40
45
Point No.
D = -5 to 5
D = -11 to 11

FIGURE 4c

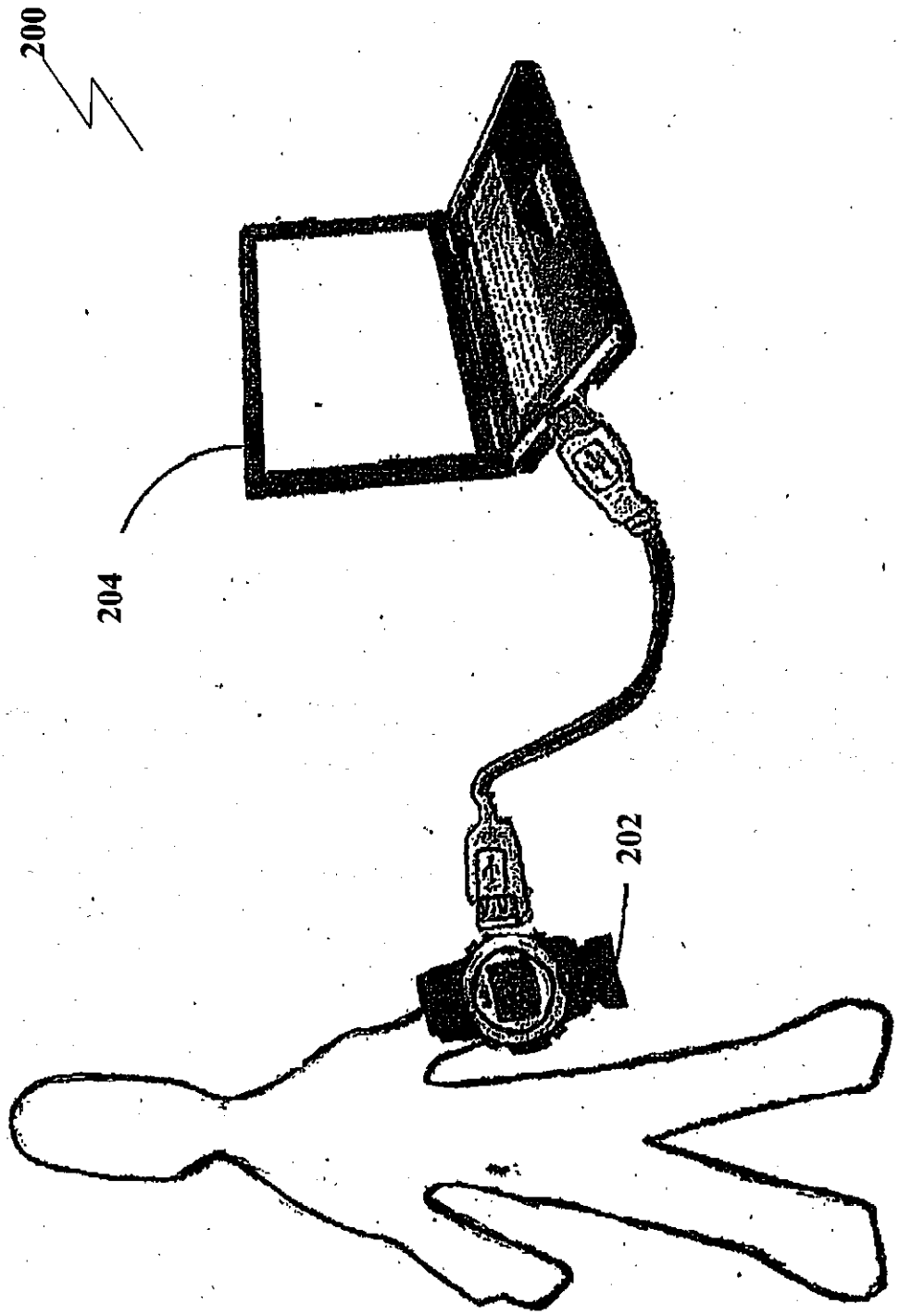


Figure 5

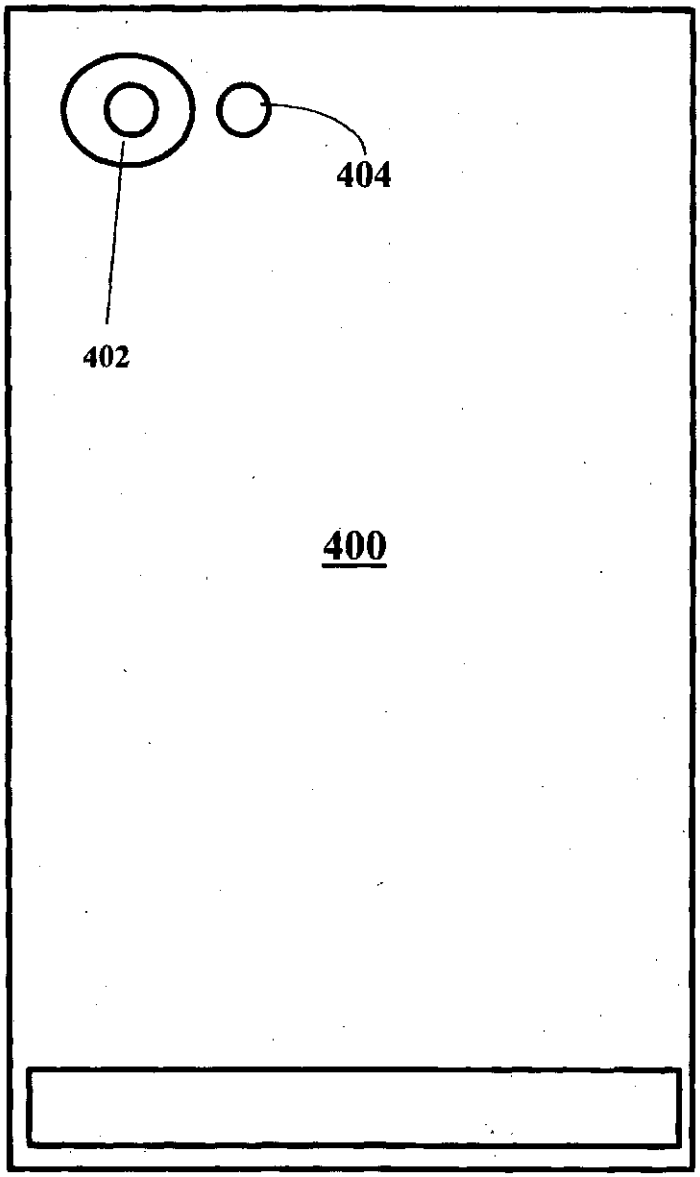


Figure 6a

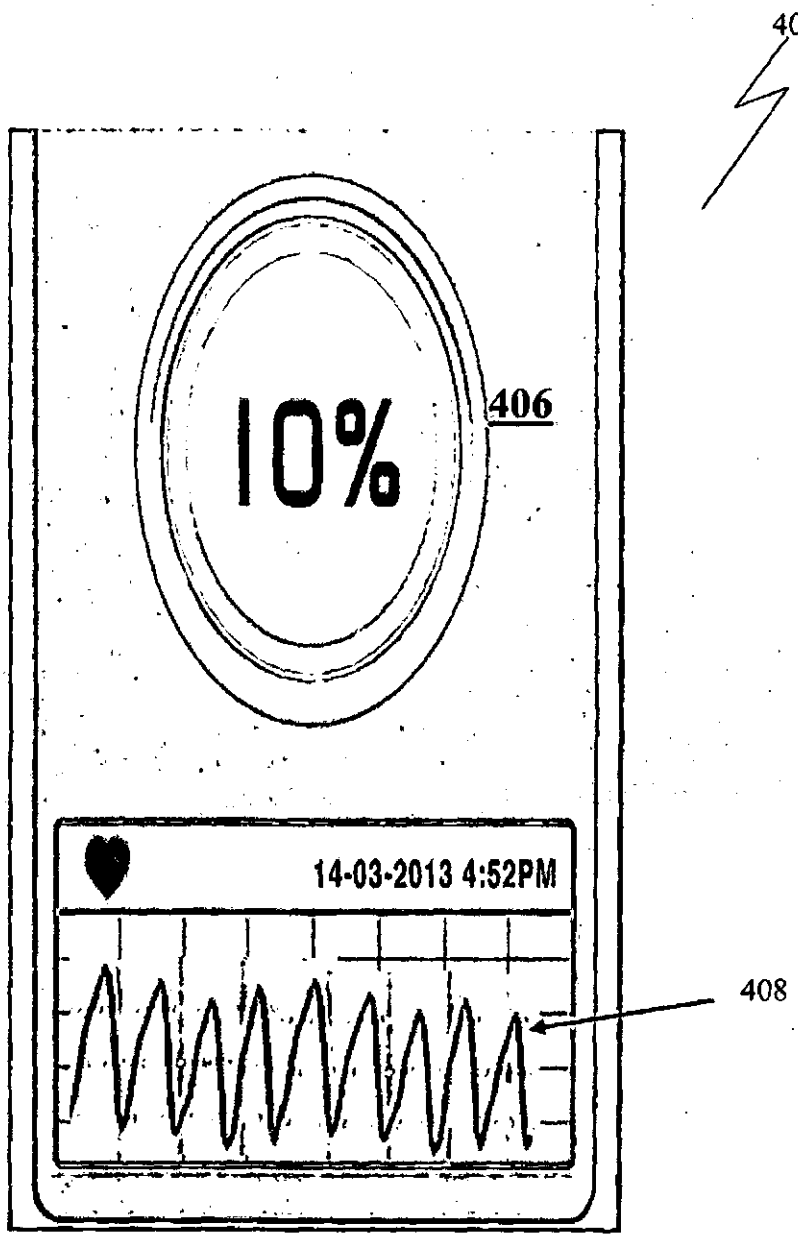


Figure 6b



Figure 6c