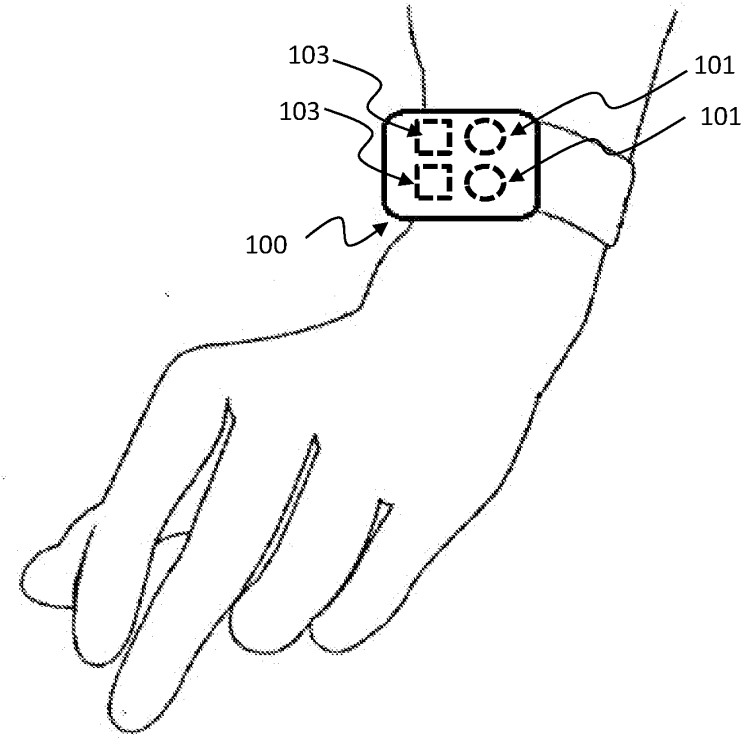


Figure 1

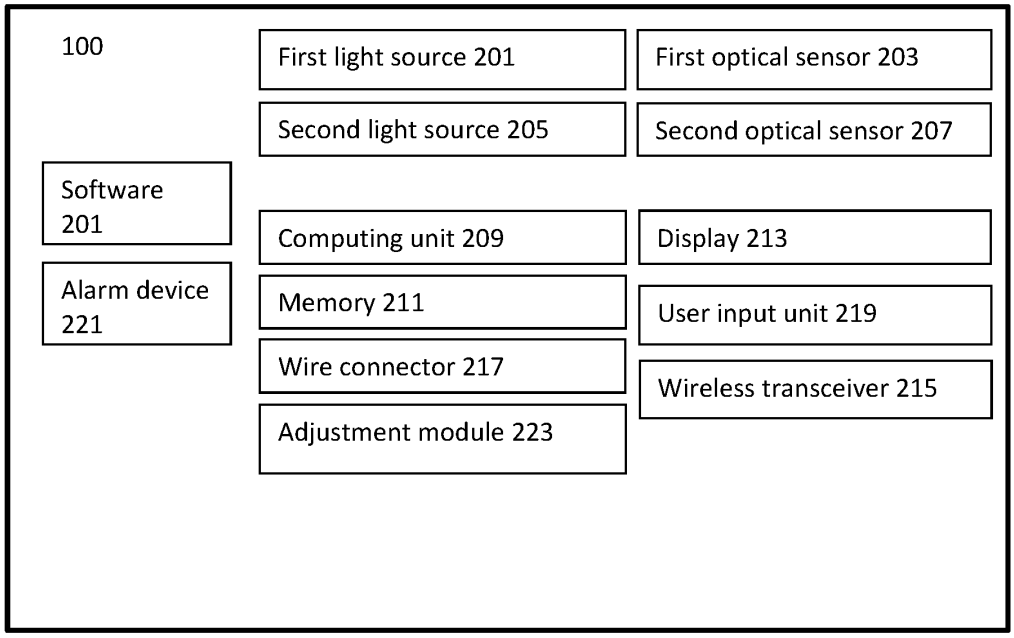

100
First light source 201
First optical sensor 203
Second light source 205
Second optical sensor 207
Software 201
Computing unit 209
Display 213
Alarm device 221
Memory 211
User input unit 219
Wire connector 217
Wireless transceiver 215
Adjustment module 223

Figure 2

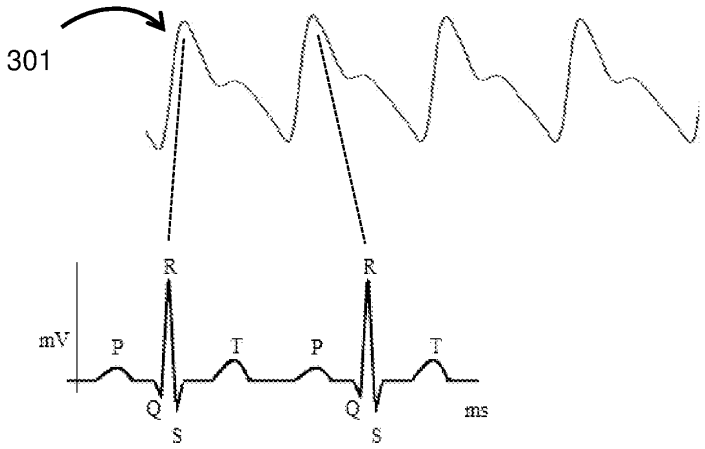


Figure 3

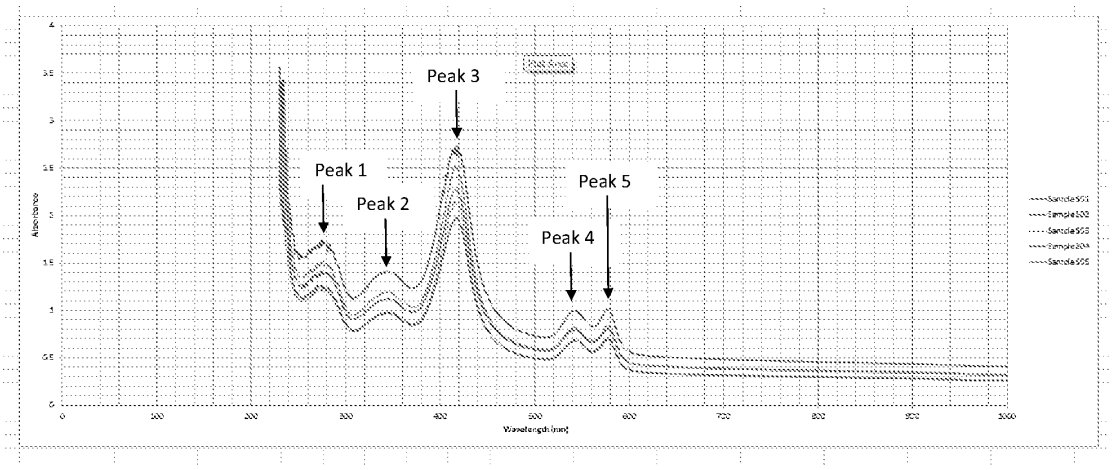


Figure 4

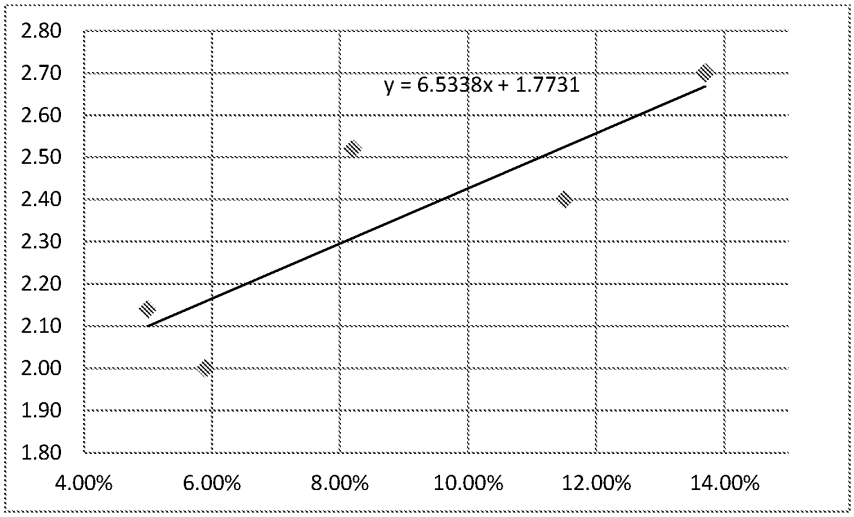

y = 6.5338x + 1.7731
2.80
2.70
2.60
2.50
2.40
2.30
2.20
2.10
2.00
1.90
1.80
4.00%
6.00%
8.00%
10.00%
12.00%
14.00%

Figure 5

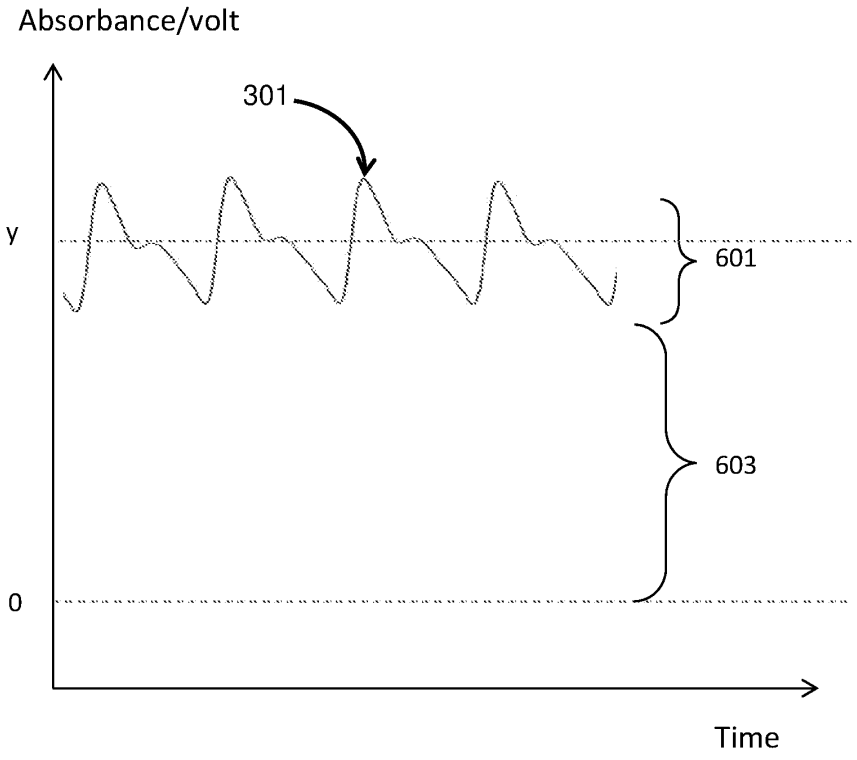


Figure 6

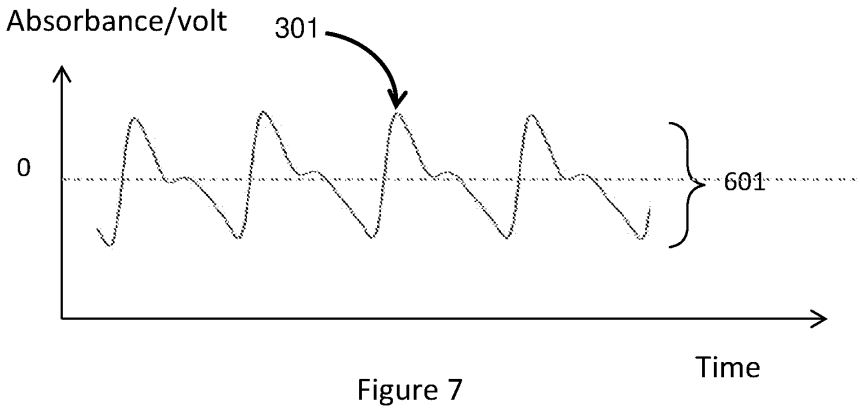


Figure 7

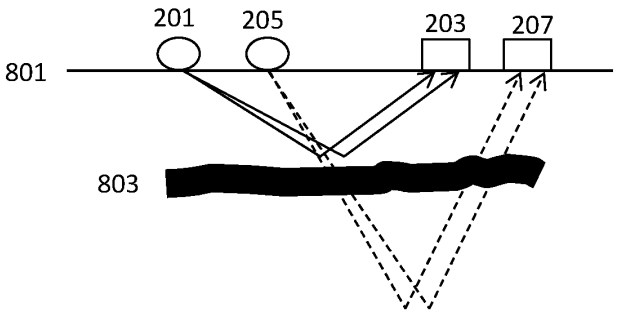


Figure 8

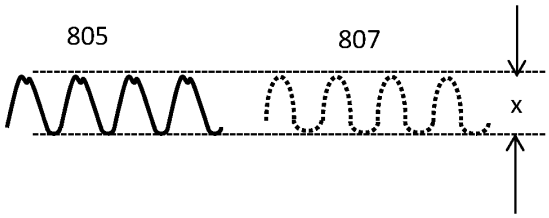


Figure 8a

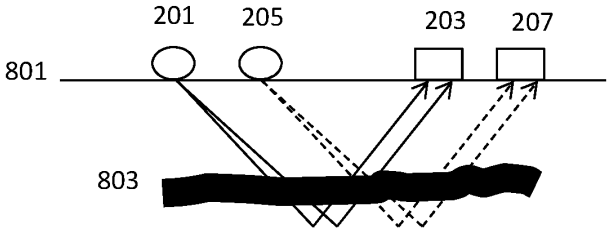


Figure 9

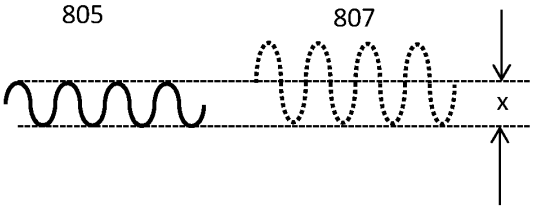


Figure 9a

Intensity of emission, increasing from 1 to 5 in an arbitrary unit	Pulse shape of wavelength for HgbA1c, 540nm (First PPG sensor)	Pulse shape of wavelength for blood, 940nm (Second PPG sensor)
1		
2		
3		
4		
5		

Figure 9b

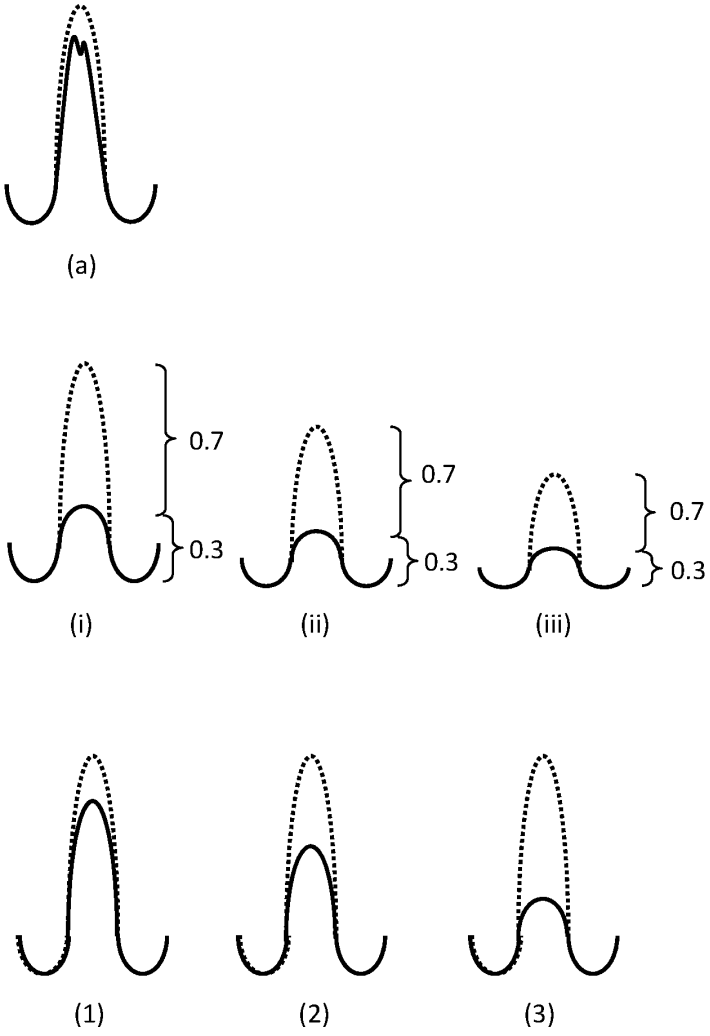
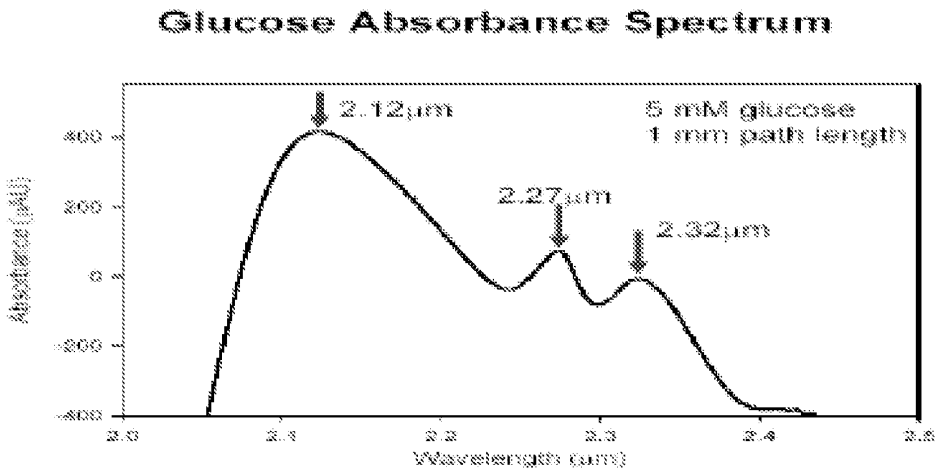


Figure 10



(https://www.researchgate.net/figure/Absorption-spectra-of-glucose_fig2_262568396)

Figure 11

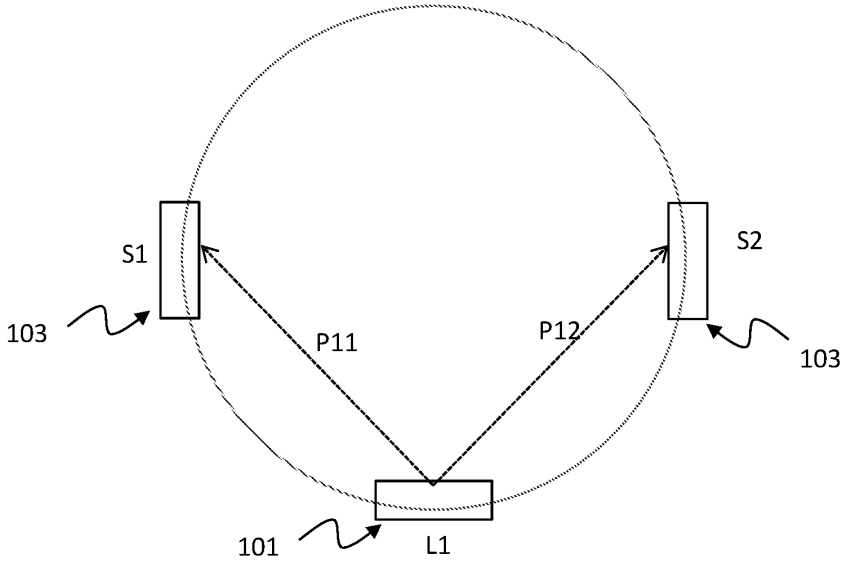


Figure 12

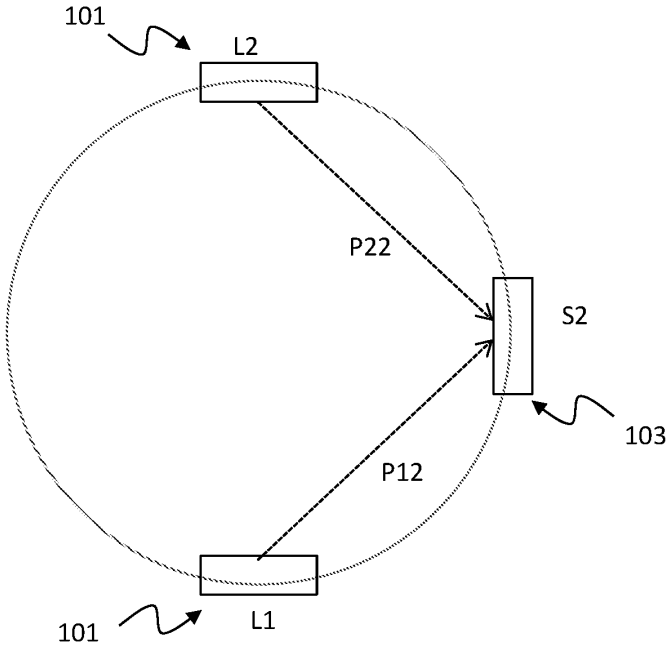


Figure 13