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Freger et al.

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- (54) **METHOD OF MONITORING GLUCOSE LEVEL**
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(51) **Int. Cl.**⁷ **A61B 5/00**

(52) **U.S. Cl.** **600/316; 600/365; 600/347**

(58) **Field of Search** **600/309-310, 600/365, 316, 322, 347; 128/920**

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(57) **ABSTRACT**

The method of monitoring or measuring the concentration of glucose level in human and animal blood uses a non-invasive technique and includes measurements of the speed of sound through the blood, the conductivity of the blood, and the heat capacity of the blood, or by non-invasive measurement of any other parameters that can be used to calculate the glucose level. Thereafter, the glucose level for each of the three measurements is calculated and the final glucose value is determined by a weighted average of the three calculated glucose values.

19 Claims, 5 Drawing Sheets

