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(54) Title: NON-INVASIVE DETERMINATION OF BLOOD GLUCOSE LEVELS

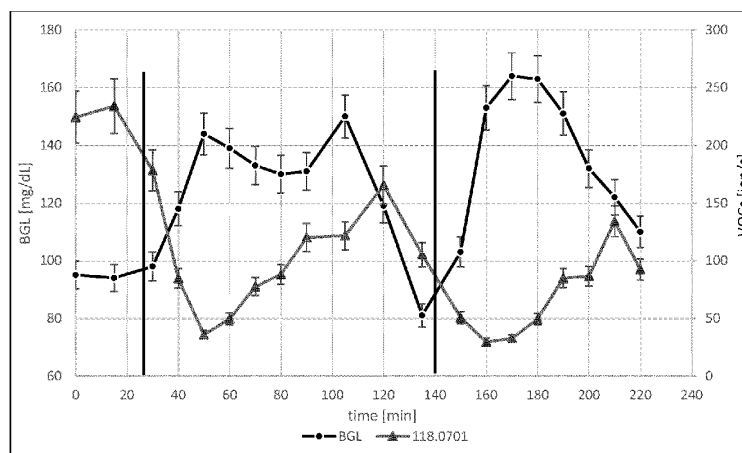


Fig. 3

(57) Abstract: A method to determine a subject's blood glucose level non-invasively by analyzing an exhaled breath or another gaseous emanation from the subject, comprising non-invasively detecting an amount of at least one volatile organic marker in the subject's exhaled breath or the subject's other gaseous emanation as marker data and determining the subject's blood glucose level based on the marker data, wherein the volatile organic marker is selected from a group of markers for which the amount of the volatile organic marker is negatively correlated to the blood glucose level. The volatile organic marker is one of indole (C₈H₇N), a partly saturated derivative of indole, a fully saturated derivative of indole and a true fraction of indole.

[Continued on next page]

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