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(54) Title: REGULATION OF A TWO-ELECTRODE ANALYTE SENSOR

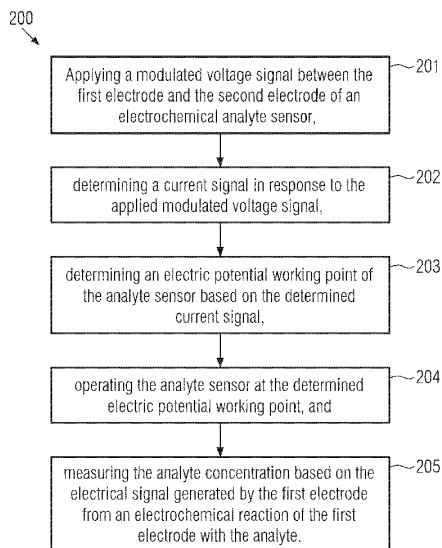


FIG. 2

(57) Abstract: The invention relates to a system, a sensor and a method for measuring an analyte concentration using an electrochemical analyte sensor, the analyte sensor comprising a first electrode and a second electrode, the first electrode being configured to react with the analyte for generating an electrical signal, wherein the method comprises: applying (201) a modulated voltage signal between the first electrode and the second electrode, determining (202) a current signal in response to the applied modulated voltage signal, determining (203) an electric potential working point of the analyte sensor based on the determined current signal, operating (204) the analyte sensor at the determined electric potential working point, and measuring (205) the analyte concentration based on the electrical signal generated by the first electrode.

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