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(54) Title: SAFETY UNIT FOR ANALYTE SENSOR

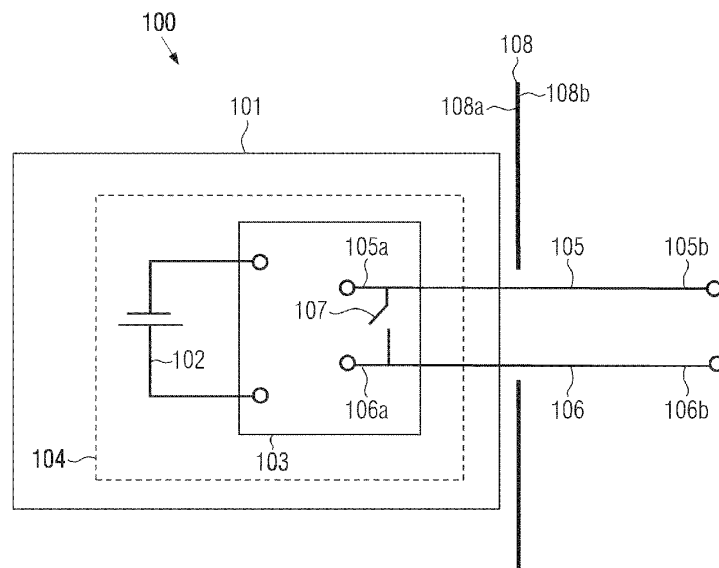


FIG. 1

(57) Abstract: The invention relates to an analyte sensor (100) for use in medical devices for measuring analyte data, in particular for measuring glucose data, comprising: a power source (102) for providing electrical power to the analyte sensor (100), an enclosure (101) of the analyte sensor, a sensor circuit (103) powered by said power source and comprising two electrodes (105, 106), wherein said electrodes (105, 106) each have a first portion (105a, 106a) that lies inside the enclosure (101) and a second portion (105b, 106b) that lies outside of the enclosure (101), at least one protection unit (107), wherein said protection unit (107) is electrically coupled to the first portion (105a, 106a) of each of the two electrodes (105, 106) that is located inside the enclosure (101), and wherein said at least one protection unit (107) is configured to short-circuit the two electrodes (105, 106) in case a voltage signal from the sensor circuit (103) applied to the electrodes (105, 106) exceeds a predetermined voltage threshold. The invention further relates to a method (300)

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for operating an analyte sensor.