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Declarations under Rule 4.17:

- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))
- of inventorship (Rule 4.17(iv))

(54) Title: METHOD FOR DETERMINING AN ANALYTE CONCENTRATION IN A FLUID

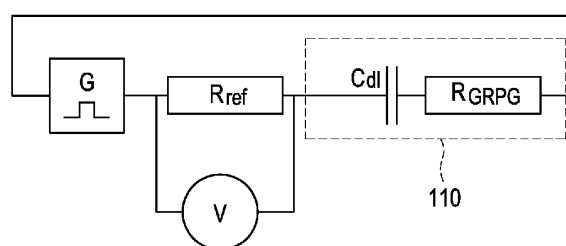


Fig. 4 B

(57) Abstract: A method for determining an analyte concentration in a fluid using an analyte sensor (110) is disclosed. The analyte sensor (110) comprises at least two measurement electrodes (112), wherein at least one of the measurement electrodes (112) comprises an analyte-responsive polymer gel (114), the method comprising the following steps: a) contacting at least the analyte-responsive polymer gel (114) of the analyte sensor (110) with the fluid comprising the analyte; b) generating at least one fast-transient voltage signal and applying the fast-transient voltage signal to the measurement electrodes (112); c) measuring at least one response signal; d) determining the analyte concentration by evaluating the response signal.

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