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(54) Title: METHOD AND DEVICES FOR DETECTING MACROIONS IN A LIQUID MEDIUM

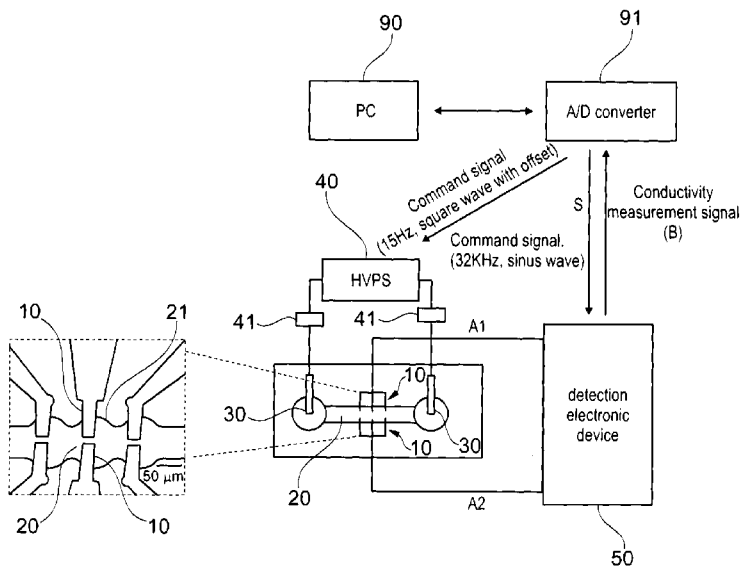


Fig. 1B

Fig. 1C

(57) Abstract: Method of detecting macroions, e.g. DNA, in a liquid medium contained in a space (20), said method comprising: • a) submitting the liquid medium to a stimulating electrical field to induce formation of aggregates of macroions, the formed aggregates of macroions preferably not comprising any additional labeling agent, and • b) measuring, in a detection zone of the space, spatial and/or temporal fluctuations within the liquid medium of at least one variable, e.g. electrical or optical, depending on the concentration of said macroions in the liquid medium, and • c) determining, based on these fluctuations, the presence of the macroions, step c) preferably comprising processing by a time-dependent or space dependent analysis, more preferably by wavelet analysis, or by autocorrelation the fluctuations measured at step b).

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**A. CLASSIFICATION OF SUBJECT MATTER**  
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According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-Internal, WPI Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category* | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No.                                    |
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