

Title (en)

METHOD AND APPARATUS FOR CHEMICAL ANALYSIS OF FLUIDS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR CHEMISCHEN ANALYSE VON FLÜSSIGKEITEN

Title (fr)

PROCEDE ET APPAREIL D'ANALYSE CHIMIQUE DE FLUIDES

Publication

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Application

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Abstract (en)

[origin: WO2009031088A1] An apparatus and method for electrochemical fluid analysis comprises a chamber (1202) having a depth dimension for accommodating a volume of a fluid under test, first and second electrodes (A1) disposed within the chamber and extending along the depth dimension in spaced relation with each other, and a soluble solid, such as an annealed polymer, e.g. EUDRAGIT occupying a lateral gap between the first and second electrodes. The rate of dissolution as monitored by electrochemical impedance spectroscopy (EIS) of the soluble solid within the fluid depends on the chemical concentration of a corresponding analyte present in solution in the fluid. In one embodiment a silicon-based integrated circuit device defining an upper margin includes an array of electrodes disposed along said upper margin to permit direct exposure of the electrode array to the fluid under test. The device is constructed using CMOS technology.

IPC 8 full level

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