

Title (en)

SENSOR DEVICES AND ANALYTICAL METHOD

Title (de)

SENSOREN UND ANALYTISCHES VERFAHREN

Title (fr)

DISPOSITIFS DE DETECTION ET PROCEDE D'ANALYSE

Publication

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Application

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Abstract (en)

[origin: WO9930144A1] Sensor systems and devices with a detecting (especially ion-selective or redox) electrode and reference electrode with the detecting electrode (and preferably both electrodes) covered by a permeable barrier interfacing with samples under examination so that the main bridging contact between the electrodes to complete a measuring circuit is not through the sample. The permeable barrier encloses a liquid zone (e.g. electrolyte) at the electrodes and controls, by restricting diffusion, the passage of analytes and impurities in either direction through the barrier. The main function of the permeable barrier is to slow the rate of diffusion of analyte. More rapid identification of the analyte content in a sample can be facilitated, e.g. by "loading" the liquid zone with analyte or impurity to control diffusion. The strongly preferred method for analyte determination is based on using measurements of the rate of change of the detecting electrode's output potential as analyte diffuses through the barrier.

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