

Title (en)

SENSOR DEVICES AND ANALYTICAL METHODS FOR THEIR USE

Title (de)

SENSOREN UND ANALYTISCHE VERFAHREN ZU DEREN VERWENDUNG

Title (fr)

CAPTEURS ET PROCEDES ANALYTIQUES D'UTILISATION

Publication

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Application

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Abstract (en)

[origin: WO0113102A1] Sensor devices with an enzyme retained in one or more cavities formed in active electrode core, having the cavities along the length of the electrode core so that the enzyme faces laterally instead of towards or at the mechanically vulnerable tip. This improves effectiveness and ease of use. They are especially wire electrodes, preferably of platinum, and the cavities may be formed as holes cut in the covering insulation on a wire or cut deeper and into the electrode core material itself, e.g. by laser-drilling. One preferred cavity form is a lateral slot and another is a "tunnel" hole cut through the core to expose enzyme at both ends, and the enzyme can be covered by a porous or perm-selective membrane. The sensors are useful for measuring of analytes amperometrically in biological media, and especially glucose on blood/serum using glucose oxidase as the enzyme.

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IPC 8 full level

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