

Title (en)

BIOSENSOR AND METHOD AND INSTRUMENT FOR DEPOSITION OF ALTERNATING MONOMOLECULAR LAYERS

Title (de)

BIOSENSOR UND VERFAHREN UND VORRICHTUNG ZUR ABLAGERUNG ALTERNIERENDER MONOMOLEKULARER SCHICHTEN

Title (fr)

BIOCAPTEUR, ET PROCEDE ET INSTRUMENT PERMETTANT DE DEPOSER DES COUCHES MONOMOLECULAIRES ALTERNEES

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Application

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Abstract (en)

[origin: WO9602830A1] A gravimetric biosensor based on two quartz resonators with immobilised layers of antibodies was developed. The active oscillator is covered by antibodies specific to a given antigen, while the reference oscillator is covered by antibodies non-specific to the antigen, in order to compensate the physical absorption effects. In a second aspect the invention provides a method and instrument for depositing films of alternating monomolecular layers, which can contain monolayers of surfactant molecules and monolayers of soluble adsorbed compounds. The first and second aspect in combination can provide a biosensor having alternating monomolecular layers with at least one layer being biosensitive, e.g. immunosensitive.

IPC 1-7

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