

Recent patents in biosensor technology

Patent #	Subject	Assignee	Inventor(s)	Priority application date	Publication date
US 20010042683	A biosensor for detecting the electrical current required to perform a valid test for determining analyte concentration in a fluid sample. A current detector is programmed to emit an error signal when the flow of electrical current is insufficient.	Bayer (Leverkusen, Germany)	Edelbrock AJ, Musho MK, Noell JO	12/8/2000	11/22/2001
DE 20104431	A sensor electrode arrangement comprising an electrically conductive electrode region, which in operation is inserted into a test medium adjacent to primary carriers in direct proximity to an electrically activatable biological unit; useful in biosensors for amperometric and/or potentiometric drug testing.	IonGate Biosciences (Frankfurt, Germany)	—	3/15/2001	10/31/2001
DE 19951509	A process for applying a lipid double layer to a substrate surface, comprising contacting with a lipid-comprising solution, an organic solvent miscible with water, and optionally water; used in the production of biosensors.	BioTul (Munich, Germany)	Raedler J	10/26/1999	10/31/2001
WO 200179848	A method for reversibly binding a receptor to a sensor surface; useful for identifying or isolating specific ligands by attaching to a coupling agent that binds to an antibody on the surface, and in the construction of biosensors used to determine specific binding reactions.	Netherlands Organization for Applied Scientific Research (Delft)	Stigter ECA, van Hoevel van Wezeveld SWF, Gaspari M, van der Gaag A, van Hoevell Tot Westerfliet S, Verheij ER	5/25/2000	10/25/2001
EP 1147739	A monitoring system comprising a biosensing meter that includes a controller to conduct a biosensing test on a bodily fluid (e.g., coagulation time or glucose levels). The controller activates the biological sensing meter upon receipt of an activation code, guarding against fraudulent activity.	Roche Diagnostics (Indianapolis, IN; Mannheim, Germany)	Cronrath C, Essenpreis M, Gerber MT, Hansen MV	4/18/2000	10/24/2001
US 6303290	A method of preparing a porous matrix comprising adding biological material to a solution of a ceramic oxide colloidal sol and dissolved sodium silicate; useful for encapsulating biomolecules that are useful in drug delivery, and as implants, bioreactors, and biosensors.	University of Pennsylvania (Philadelphia)	Chen I, Liu D	9/13/2000	10/16/2001
WO 200175089	A polymer matrix incorporating catalase, which is co-immobilized with an analytic enzyme that generates hydrogen peroxide; useful in biosensors and in controlled drug-delivery systems.	M-Biotech (Salt Lake City, UT)	Dal-Young J, Han IS	4/3/2000	10/11/2001
WO 200175149	A biosensor with a region for retaining probe molecules that is able to bind to macromolecular biopolymers; useful for detecting proteins, peptides, and nucleic acids.	Infineon Technologies (Munich, Germany)	Thewes R, Weber W	3/30/2000	10/11/2001
WO 200173420	An electrochemical biosensor measuring device with sensor chips for various reagents and differing calibration curves; useful in determining serum sugar, cholesterol, and lactic acid levels in blood.	Matsushita Denki Sangyo KK; Matsushita Electric Ind. Co. Ltd. (Osaka, Japan)	Tokuno Y	3/30/2000	10/4/2001
JP 2001228110	A biosensor installed with a water analyzer, comprising a fixed microorganism film and buffer solution for pH regulation; useful for monitoring the quality of water such as river water, waste treatment water, and underground water.	Fuji Electric Co. Ltd. (Tokyo)	—	2/15/2000	8/24/2001
JP 2001208722	A limiting current-type gas sensor with an electrolyte-containing material; useful as a biosensor for clinical laboratories and for measuring oxygen concentration in the atmosphere and liquids.	Toyota Chuo Kenkyusho (Aichi-gun, Japan)	—	1/24/2000	8/3/2001

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