

Recent patent applications in biological separations

Patent #	Subject	Assignee	Inventor(s)	Priority application date	Publication date
JP 2005091280	A new material made of ultra-fine drawn fiber of specified diameter dispersed with gas to form fiber groups of desired shape; useful for the separation of blood plasma and serum and in preparing samples for analysis.	Japan Vilene (Tokyo)	–	9/19/2003	4/7/2005
WO 200530711	New bridged macrocyclic module compounds used in the preparation of macromolecular compositions such as nanofilms for use in ion separation, ultrafiltration, microfiltration, etc.	Covalent Partners (Wayne, PA, USA)	Freeman W, Kriesel J, Whiteford JA	8/6/2003	4/7/2005
US 20050069973	An axial compressive force-applying device for a fluid contamination detection system, consisting of a platform which is movable between two positions in which the distance between the platform and stop element differ; useful for filtration testing and for detecting the presence of biological contaminants in fluid.	Gen-Probe (San Diego, CA, USA)	Bashar R, Camper DA	9/30/2003	3/31/2005
US 20050069867	Analyzing a biological sample by passing a medium with a sample across a filter having a pore size greater than a dimension of a human papilloma virus (HPV) particle but smaller than an HPV-infected cell; useful for collecting a biological material, and particularly for separating biological material from viral particles, including HPV.	Cytoc (Marlborough, MA, USA)	Hecht SA, Lentricchia BB	9/25/2003	3/31/2005
JP 2005069902	A preprocessor comprising a centrifuge that contains holders which incline according to centrifugal force, where a vibration excitation and temperature control mechanism is provided at the periphery of the centrifuge and robots eject a solvent to the holder; useful for high-throughput sample analysis in proteomics and drug discovery.	Hitachi Keisokki Service (Tokyo)	–	8/26/2003	3/17/2005
WO 200524432	A method for detecting prion proteins in mammalian samples by preparing a homogenate of the sample with extraction buffer, incubating the homogenate in diluted extraction buffer with protease and chaotropic agent and detecting the aberrant prion proteins.	Cedi Diagnostics (Lelystad, The Netherlands)	Heerkens S, Schielen WJG, Steenbergen J	4/21/2004	3/17/2005
JP 2005062053	A flow through-type ligand detector, comprising a filter member, an outer-enclosure member with an opening on the upper surface of the filter member and an adapter with an opening in the container for introducing the sample; useful in immunoassays.	Denka Seiken (Tokyo)	–	8/18/2003	3/10/2005
WO 200521764	Purifying a heterologous protein of interest by eluting a cellulose binding module (CBM)-protease from a polysaccharide matrix by adjusting conditions affecting the release of the CBM-protease off the matrix; provides a novel process of separating CMB-fusion proteins from biomass such as plant-derived cellulose material, with fewer processing steps involved.	ORF Genetics (Reykjavik, Iceland)	Mantyla E, Orvar BL	8/27/2003	3/10/2005
US 20050054506	A centrifuge separation chamber comprising an upwardly flared conical shape, and a sample collecting groove at its widest point. The device allows microbial samples to be quickly concentrated for testing and analysis.	Bradley BJ	Bradley BJ	7/30/2003	3/10/2005
US 20050051486	A filtration device comprising a filter element disposed in a filter well and sealed to a housing to prevent the flow of unfiltered fluid between the filter element and the housing; useful for processing biological fluids (e.g., removal of components or chemicals from blood or blood products and removal of leukocytes from packed red cells).	Zuk P	Zuk P	9/3/2004	3/10/2005
CN 1556192	A natural culture method and equipment for culturing microbes in a well, comprising arranging one or more layers of Millipore filter membrane in a perforated culture container, sterilizing, adding aseptic culture medium, putting the container in the environment needed by the microbes to be cultured, inoculating the microbes in the culture medium, and culturing.	Chongqing University (Sichuan, China)	Ye J	12/31/2003	12/22/2004

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