

Recent patent applications relating to biological separations

Patent #	Subject	Assignee	Inventor(s)	Priority application date	Publication date
WO 200358230	A method for processing digital image data for two-dimensional arrays of sample substance spots and marker substance spots in electrophoresis gels, for the separation, detection, identification and quantification of biological samples.	Ludesi (Lund, Sweden)	Berglund M, Forsström- Olsson O, Heyden A, Malmström J, Malmström L	1/15/2002	7/17/2003
WO 200349840	A membrane structure for the collection or separation of biological material present in a fluid sample. Surface modifications prevent fouling of the membrane during use, making the membrane structure reusable, and sample collection and separation of components can be performed continuously.	Lee GU; Lee SW; Purdue Research Foundation (West Lafayette, IN, USA)	Lee GU, Lee SW	6/13/2002	6/19/2003
WO 200348754	A thin-film electrophoresis assembly for separating biological molecules such as DNA; includes a support frame, first and second thin-film units carried by the support frame and a resolving gel sandwiched between the units comprising a support frame.	Alpenfels M; Alpenfels WF	Alpenfels M, Alpenfels WF	11/30/2001	6/12/2003
US 20030075491	A device for the separation, identification and synthesis of chemical and biological species; features a channel coil formed by coiling the fluid channel of the separation column upon itself in multiple connected loop segments. The loop segments are concentrically nested without crossing each other.	Griffiths S; Sandia National Lab. (Livermore, CA, USA)	Griffiths S	10/19/2001	4/24/2003
WO 200331978	A medium used for isolating, detecting, separating or purifying chemical and biological substances; comprises a network of polymeric fibers having a derivatized polymeric surface that allows immobilization of at least one specific binding agent in a highly dispersed and randomly spaced orientation that forms a tortuous interstitial path for passage of a mixture.	Billups RE; Fallecker CN; Finch DO; Sanroma UC; Ward BC; Filtrona Richmond (Colonial Heights, VA, USA)	Billups RE, Fallecker CN, Finch DO, Sanroma UC, Ward BC, Ward B	12/20/2001	4/17/2003
JP 2003070904	A filter holder for biological component separation (e.g., cell and blood separation) that has a ring-shaped projection provided between the recesses of a storage structure and a convex portion of the cover so as to engage them.	Asahi Medical Co. Ltd. (Tokyo)	–	9/7/2001	3/11/2003
US 20030029787	A separation membrane for use in biological and biochemical laboratory procedures; comprises several fluid permeable and impermeable regions disposed in a continuous membrane made of microporous material. The differential permeable regions prevent cross-contamination between neighboring sample wells, and the membrane has the ability to withstand harsh organic solvents.	Liu Y; Luebke KJ	Liu Y, Luebke KJ	8/6/2001	2/13/2003
US 20030013205	A sample component separation device for analytical kits that features a self-closing septum that is provided at both end regions of a vessel arranged with liquid-permeable separating elements; useful for separating components from biological samples (e.g., blood samples).	Konrad F	Konrad F	7/6/2001	1/16/2003
FR 2824143	A miniature apparatus for the separation and/or isolation of biological samples for producing DNA and protein chips and screening proteins; comprises a matrix of micro-dishes with electrodes, and an electrical circuit to give a difference in potential between them.	Commissariat Energie Atomique (Paris); Proteus (Nimes, France)	Caillat P, Dupret D, Fuchs A, Lefevre F, Revol CF, Revol-Cavalier F	4/27/2001	10/31/2002

Source: Derwent Information, Alexandria, VA. The status of each application is slightly different from country to country. For further details, contact Derwent Information, 1725 Duke Street, Suite 250, Alexandria, Va 22314. Tel: 1 (800) DERWENT (info@derwent.com).