

Recent patent applications in microarrays

Patent #	Subject	Assignee(s)	Inventor(s)	Priority application date	Publication date
US 20060093517	A biochemical reaction cartridge comprising a reaction chamber and a reaction information fetching section, where the fetching section has a covering unit allowing exposed and covered states to avoid contamination by dust in the air or by contact with an operator's hand, and to prevent deterioration of fluorescent dyes used in tests caused by exposure to light; useful in DNA microarray analysis.	Canon KK (Tokyo), Yokoyama D	Yokoyama D	11/2/2004	5/4/2006
WO 200647452	New 1,3-crosslinked carbocyanines used for the preparation of conjugates of biological substances that are useful for analyzing biological samples. The conjugates display greater assay sensitivity and increased ozone resistance, providing an advantage for their application in microarrays.	AnaSpec (San Jose, CA, USA)	Diwu Z, Tang Y, Xiang G, Zhang J	10/25/2004	5/4/2006
US 20060088863	A method of constructing a sensor or microarray plate involving dicing a substrate to produce several sensors or microarrays, bonding the sensor to a support member or peg using a curable low fluorescence adhesive and attaching the other end of the support member or peg to a plate. The design facilitates high-throughput manufacturing processes.	Affymetrix (Santa Clara, CA, USA)	Liu D, Oostman CA, Pearson KS, Sze JS, Trenholme PC, Yamamoto M, Yu CS	10/4/2005	4/27/2006
JP 2006098297	A microarray carrier produced by carrying out radiation-exposure processing of a plastic carrying surface in a carrier for a microarray.	Iatron Laboratories (Tokyo)	Hoshino N, Katada M, Matsuya T	9/30/2004	4/13/2006
WO 200637527	A solid porous support comprising conductive material applied to predefined regions on a first and second surface and on channels extending from the first to the second surface; useful in microarray analysis, electrophoresis and drug screening assays, as the support allows fast and easy reagent exchange to accelerate electrode-based microarrays and provide a high surface area for contacting the analyzed sample.	PamGen ('s-Hertogenbosch, the Netherlands)	de Wijn R, Hannink JM, Ingham CJ, van Beuningen MG, van Damme HS	9/30/2004	4/13/2006
US 20060071665	A preparative mass spectrometer system comprising an ionizer for converting a mixture into gas phase ions of molecules in mixture, a separator for separating ions according to their mass-to-charge ratio or mobility, and a surface on which the separated molecules are soft landed at different locations; useful for microarrays of proteins from complex biological mixtures.	Blake T, Cooks RG, Ouyang Z	Blake T, Cooks RG, Ouyang Z	6/7/2002	4/6/2006
US 20060063197	A method of performing quality control of printed protein microarrays, comprising obtaining a printing buffer that includes a fluorescent dye and analytes, using the printing buffer to print spots in regions of protein microarray, and detecting a fluorescent response of the printed spots, thus detecting at least one of spot presence, spot location and spot morphology.	Anderson BR, Bingham CP, Groll MC, Hall DL, Spendlove RS, Thompson JE	Anderson BR, Bingham CP, Groll MC, Hall DL, Spendlove RS, Thompson JE	9/17/2004	3/23/2006
US 20060053005	A method for determining the presence of a signal of an event of interest, e.g., in a biological microarray, involving receiving incoming data and initializing a dynamical system corresponding to a modality of the data. A measurement probe is generated and injected into a quantum mechanical system. A determination is made whether the injection of the probe results in a collapse of the mechanical system. A presence of a signal within the data is determined if the mechanical system collapses.	Gulati S	Gulati S	9/2/2004	3/9/2006
WO 200606196	An organometallic compound, or its salt or solvate; useful as a marker of biomolecules and for determining biological substances, e.g., nucleic acids, oligonucleotides, proteins, peptides, amino acids, DNA or RNA. It is used for constructing microarrays.	University of Milan (Italy)	Baldoli C, Maiorana S, Mussini PR, Rigamonti C	7/15/2004	1/19/2006
TW 226927	An herbal chip comprising a plastic slide, a coating as a spacer on the plastic slide and fractions or components obtained from herbs that are independently allocated in microarrays on the coating; useful for screening of active ingredients contained in the herbs that have specific pharmacological or therapeutical functions.	Advanced Gene Technology Corp. (Taichung, Taiwan, ROC)	Chen J, Jang S, Li J, Shiu L	6/6/2001	1/21/2005
TW 200408703	A dot-and-well matrix microarray comprising detained microtitered nucleotides within microwells to avoid intermixing with adjacent wells and the hydrophilic glass substrate; useful for avoiding the intermixing of adjacent dots and increasing the accuracy of attachment of the test solution dot.	Yang H, Yang Y	Yang H, Yang Y	11/18/2002	6/1/2004

Source: Thomson Scientific Search Service (formerly Derwent). The status of each application is slightly different from country to country. For further details, contact Thomson Scientific, 1725 Duke Street, Suite 250, Alexandria, Virginia 22314, USA. Tel: 1 (800) DERWENT (<http://www.thomson.com/scientific>).