

## PATENTS

## Recent patents in combinatorial chemistry

Patent #	Subject	Assignee	Author	Date	Status
DE 19823747	New pivaloyl-oxirane or diol derivatives, used as photolabile linkers for solid-phase synthesis in combinatorial chemistry.	Novartis (Basel, Switzerland)	–	12/2/1999	A1
WO 9959722	A three-dimensional array of solid-phase supports to provide parallel synthesis of a library of molecules with three-dimensional diversity.	Selectide Corp. (Tucson, AZ)	Baum SA, Stein DT	11/25/1999	A1
WO 9958475	A process for effecting multistep, high-yield, automated organic synthesis for application in combinatorial chemistry.	Cambridge Combinatorial Ltd. (Cambridge, UK)	Bolli M, Gervois A, Habermann J, Hall B, Haunert F, Hinzen B, Ley S, Scott J	11/18/1999	A2
WO 9956866	An apparatus for marking beads useful in combinatorial chemistry.	Central Research Laboratories Ltd. (Hayes, UK)	Corless AR	11/11/1999	A1
JP 11304786 EP 886143	An apparatus for screening compound libraries using frontal chromatography in combination with mass spectrometry; allows the relative affinity of each member of the library for the target receptor to be determined relative to other members under ligand–receptor binding conditions, for rapid ranking of the relative affinity of each member of the compound library.	Synsorb Biotech (Calgary, Alberta, Canada)	Hindsgaul O, Schriemer DC	11/5/1999 12/23/1998	A A1
US 5979251	A simple apparatus for the distribution of microscopic substrate beads in which they are passed from a liquid suspension through an aperture and into a combinatorial chemistry array.	SmithKline Beecham (London)	Hare JF, James PJ, Marlow J, Payne RC	11/9/1999	A
WO 9953319	High-density, miniaturized arrays of immobilized reactants attached to a coating with a topographical surface area larger than the projected surface area; for use in gene sequencing or mapping, monitoring gene expression, drug discovery, and combinatorial chemistry.	3M Innovative Properties Co. (Minneapolis, MN)	Halverson KJ, Patil SL, Rasmussen JK	10/21/1999	A2
WO 9949428	A bead-manipulating chuck for selective pickup and discharge of polymer beads for use in chemical processes, e.g., in combinatorial chemistry for solid-phase synthesis, in a PCR assay, or for the synthesis of pharmaceutical dosage forms.	Sarnoff Corp. (Princeton, NJ)	Sun HC	9/30/1999	A1
WO 9947267	An apparatus for integrating the processing of magnetic particles; applicable in combinatorial chemistry, DNA function analysis, automatic immunoassay applications.	Precision System Sci. Co. Ltd.	Tajima H	9/23/1999	A1
EP 937696	Safety-catch linkers useful for binding a substrate to a resin or other solid support during solid-phase and combinatorial solid-phase syntheses.	IRORI (San Diego, CA)	Czarnik AW, Xiao X, Xiao Y	8/25/1999	A1
WO 9941006	A method of fabricating coded particles, particularly coded security particles and coded combinational chemistry support particles.	Univ. of Hertfordshire (Herts, UK)	Greenaway RS, Kaye PH, Tracey MC	8/19/1999	A1
WO 9930817	A chemical synthesis apparatus with reagent inputs, a solid-reaction beads input, and reaction chambers, for use in combinatorial chemistry for synthesis of potential drug candidate molecules. The chambers have a barrier that prevents the passage of solid beads but allows passage of unbound molecules.	Kalibrant Ltd. (UK)	French MT, Palmer DA	6/24/1999	A1
JP 11147890	Solid phase–supported optically active phosphine, used in combinatorial chemistry or high-speed synthesis using an autotransfer apparatus.	Nissan Chemical Industries Ltd. (Tokyo)	–	6/2/1999	A

Source: Derwent Information, Alexandria, VA. \*The patents in the table are pending. The status of each application is slightly different from country to country. For further details, contact Derwent Information, 1725 Duke St., Suite 250, Alexandria, VA 22314. Tel: 1 (800) DERWENT (info@derwent.com).