

PATENTS

Recent patent applications in combinatorial chemistry

Patent #	Subject	Assignee	Author	Date	Subject
GB 2317175	Deuterated protecting groups for amino acids; used in combinatorial chemistry for monitoring solid-phase chemical reactions and for monitoring yields of reactions involving solid-phase bound reagents.	Zeneca (Devon, UK)	Pivonka DE, Russell K	3/18/98	A
GB 2317173	Polyaryl-polyethylene glycol derivatives, e.g., tetra-(tetraethylene glycoxy-methyl)biphenyl; useful as soluble polyvalent supports for preparing combinatorial libraries.	Merck & Co. (Whitehouse Sta., NJ)	Kim RM	3/18/98	A
GB 2316941	Preparation of combinatorial compound libraries, e.g., of indole derivatives; uses a soluble polyvalent support, preferably comprising dendrimers, dendrons, cascade polymers, arborols, oligomers, or blocked copolymers.	Merck & Co. (Whitehouse Sta., NJ)	Chapman KT, Hutchins SM, Kim RM, Manna M	3/11/98	A
WO 9808839	Libraries of substituted diamino-thiophene compounds; useful in determining lead compounds for drug development.	Eli Lilly & Co. (Indianapolis, IN)	Hollinshead SP	3/5/98	A1
WO 9808092	Arraying and synthesizing bead-based combinatorial libraries by forming discrete adhesive alignment areas on which beads are trapped and then released for cleavage of attached compounds.	SmithKline Beecham (Philadelphia, PA)	Dunnington D, Taylor PJ	2/26/98	A1
WO 9808086	Film for microsystem techniques and microstructurization made of enzymatically degradable biopolymer; useful for screening assays and preparation of combinatorial chemical libraries.	Ermantraut E	Ermantraut E, Koehler JM, Schulz T, Woelfl S, Wohlfart K	2/26/98	A1
WO 9808077	Optical detector for chemical analysis using surface-emitting semiconductor lasers as light source, particularly for fluorescence-based assays of specific binding partners, e.g., immunoassays, and for analysis of combinatorial libraries.	Novartis (Basel, Switzerland)	Duveneck GL, Gulden K, Kunz RE, Soechtig J	2/26/98	A1
WO 9807763	New phosgenated oxime resins as solid-phase transfer agents; for use in combinatorial synthesis for creation of libraries of compounds for lead identification.	E.I. du Pont de Nemours & Co. (Wilmington, DE)	Scialdone MA	2/26/98	A1
WO 9806490	Apparatus for solid-phase organic synthesis; has reaction vessels with lower ends coupled to manifold whose internal pressure can be altered to drain, hold, or agitate fluids in vessels.	Monsanto Co. (St. Louis, MO)	Hamper BC	2/19/98	A1
WO 9805961	New cyclic-centered compounds with chains containing amine groups—either aromatic, heterocyclic, or alicyclic—used for library construction for antibacterial and antifungal screening.	Isis Pharmaceuticals (Carlsbad, CA)	An H, Cook PD	2/12/98	A1
WO 9805959	Real-time measurement of cellular response; combines suspension of living cells with test compound and passes mixture through detection zone where cellular response is measured.	Axiom Biotechnologies (San Diego, CA)	Okun A, Okun I	2/12/98	A1
WO 9803521	Combinatorial synthesis of organometallic compounds by reacting ligands on substrate with metal ions; especially useful for preparing and screening polymerization catalysts.	Symyx Technologies (Santa Clara, CA)	Boussie T, Goldwasser I, McFarland E, Murphy V, Powers T, Turner H, van Beek JAM, Weinberg WH	1/29/98	A1
WO 9802741	New tetrahydro-quinoline(s) and their compound libraries; useful for in vitro and in vivo screening, to block peripheral effects of central-acting pain killers and to treat infections.	Trega Biosciences (San Diego, CA)	Kiely JS, Pei Y	1/22/98	A1
DE 19628928	Solid support for analytical assays, combinatorial chemistry, and toxicology, with hydrophilic assay zones separated by hydrophobic coating; allows automated small-scale analysis.	BASF (Ludwigshafen, Germany)	Eipel H, Keller H	1/22/98	A1
WO 9800398	Preparation of combinatorial library of amine and amino acids; comprises reacting amine, carbonyl compound, and organoboron compound under mild conditions.	Univ. Southern California	Petasis NA	1/8/98	A1
EP 816310	Scavenger-assisted solution phase combinatorial process; for preparing libraries of tertiary amine compounds.	Eli Lilly & Co. (Indianapolis, IN)	Dressman BA, Fritz JE, Hahn 1/7/98 PJ, Kaldor SW, Siegel MG		A1
WO 9747314	Substrate subtraction phage display peptide libraries; used to distinguish between active and latent forms of enzyme, e.g., serine protease.	Scripps Res. Inst. (La Jolla, CA)	Ke S, Madison EL	12/18/97	A1

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).