PATENTS

Recent patent applications in fluorescent probes

Patent #	Subject	Assignee	Author	Date	Status
WO 9806737	Nucleic acid encoding mutant green fluorescent proteins having longer wavelength emission; used as markers for probes and as components of fluorescent resonant energy transfer systems, related vectors and transformants.	Aurora Biosciences (San Diego, CA); Univ. California (Oakland, CA); Univ. Oregon (Eugene, OR)	Cubitt AB, Heim R, Ormo MF, Remington JS, Tsien RY	2/19/1998	A1
WO 9804738	Detection of target DNA sequences using a labeled ribooligonucleotide and kinetic analysis of released fragments obtained using ribonucleic acid nuclease.	Winger EE	Hargrove DE, Kessler DJ	2/5/1998	A1
US 5714386	Conjugate of Cy7 dye and allophycocyanin; useful for labeling probes for use in fluorescence detection assays.	Stanford Univ. (Stanford, CA)	Roederer M	2/3/1998	A
WO 9749769	2,4-dichloro-rhodamine fluorescent labeling dyes and labeled (poly)nucleotide compounds; useful, e.g., in polynucleotide sequencing and fragment analysis methods.	Perkin-Elmer (Norwalk, CT)	Benson SC, Lee L, Rosenblum BB, Spungeon SL	12/31/1997	A1
US 5700646	Nucleic acid assay for detection of pathogen, using reagent complex comprising fluorescently labeled support coated with single-stranded DNA probe annealed to complementary DNA strand labeled with fluorescence quencher.	US Sec. of Army	Wood SJ	12/23/1997	A
WO 9746707	Analyzing target DNA sequence for polymorphisms, heterozygosity, or mutation(s) by amplification in presence of 2 nucleic acid probes, labeled with acceptor and donor fluorophore of a fluorescence energy transfer pair.	Univ. Utah Res. Found. (Salt Lake City, UT)	Hillyard DR, Rasmussen RP, Ririe KM, Wittwer CT	12/11/1997	A2
WO 9746703	Preparing optimally fluorescent oligonucleotides, useful for blotting analyses, in situ hybridization, etc., from template with nucleotide repeat region by primer extension and attachment to target sequence.	Polyprobe Inc. (Bala Cynwyd, PA)	Nilsen TW	12/11/1997	A1
WO 9746708	Reagent composition for detection of nucleic acid amplification products; includes internal reference molecule comprising 1st and 2nd fluorophores joined by oligonucleotide backbone connector.	Perkin-Elmer (Norwalk, CT)	Livak KJ, McBride LJ	12/11/1997	A1
US 5696157	Sulphonated 7-amino-coumarin derivatives; useful as fluorescent probes or in preparation of enzyme substrate or adducts with reducing sugar.	Molecular Probes (Eugene, OR)	Leung W, Mao F, Wang H	12/9/1997	A
JP 9294706	Fluorescence diagnostic apparatus for diagnosing fluorescence of neoplasm part of living body; has normalization operation part to output normalization image signal to display unit, which displays the fluorescence image.	Fuji Photo Film Co. Ltd. (Tokyo)		11/18/1997	A
US 5688966	New sulpho-indolenium internal salt compounds; used as intermediates for sulphocyanine fluorescent labeling dyes, e.g., new tyramide derivatives.	E.I. du Pont de Nemours & Co. (Wilmington, DE)	Bobrow MN, Erickson TJ	11/18/1997	A
WO 9740191	Fluorescent in situ hybridization with simultaneous detection of many probes using interferometer system to generate pixel image and produce spectrum cube from pixels for mathematical interpretation; used for color karyotyping and detection of chromosomal aberrations.	Applied Spectral Imaging (Carlsbad, CA)	Buckwald RA, Cabib D, Garini Y, Ried T, Soenksen DG	10/30/1997	A1
US 5677199	Fluorescent probes comprising labeled marker linked to binding pair; useful in fluorescent polarization immunoassays, e.g., antidigoxin antibodies and in vivo imaging.	Diatron (Miami, FL)	Arrhenuis POG	10/14/1997	A
US 5663319	Multiple probe compositions for detecting chromosomes comprising several directly labeled probe compositions with different fluorescent labels; useful for in situ detection of human chromosomes or chromosome regions.	Vysis (Downers Grove, IL)	Bittner ML, Legator MS, Morrison LE	9/2/1997	A
WO 9728277	Fluorescently detecting reagent in sample; used to detect enzymes such as hydrolytic enzymes, peptidase(s), phosphorylase(s), oxidase(s), and reductase(s).	Biometric Imaging (Mountain View, CA)	Lee LG	8/7/1997	A1
EP 781853	Quantifying nucleic acid by scintillation proximity or fluorescence polarization assay using peptide nucleic acid or deoxy nucleotide guanidine probes.	Eli Lilly & Co. (Indianapolis, IN)	Basinski MB, Kahl SD, Reifel-Miller AE, Schoner BE, Sittampalam SG	7/2/1997	A2

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).