

Recent patent applications in imaging technology

Patent #	Subject	Assignee(s)	Inventor(s)	Priority application date	Publication date
EP 1548483	A new lens for microscopes that has correcting mounts to be adjusted on-axis so as to adapt to different parameters influencing image quality.	Carl Zeiss Jena (Jena, Germany)	Albrecht K, Fahlbusch I, Henkel H, Herbst G, Ozimek H	12/24/2003	6/29/2005
WO 200557496	A cell imaging method for target object detection involves rearranging the image based on selected pixel score so as to match specific areas of the image closely with target areas.	Japan Science & Technology Agency (Saitama, Japan); University of Tokyo	Ito K, Shimada T	12/9/2003	6/23/2005
WO 200530986	A cell observation apparatus comprising image capture and recognition units that are able to compare an initial image of multiple cells with an image obtained after the cells are exposed to a stimulus, to provide information on the reaction of each cell to the stimulus; useful for observing the reaction of cultured cells to a stimulus.	Imaizumi Y; Nikon Corp. (Tokyo)	Imaizumi Y, Nakano Y, Sase I	9/29/2003	4/7/2005
WO 200529015	A multispectral, multifusion, dual-energy mueller-based optical imaging or tomography system, with a processor that assigns weight factor to different target images and evaluates weighted difference between images; useful for medical and molecular imaging, cancer detection, image guided biopsy, etc.	University of Akron (OH, USA)	Giakos GC	6/25/2003	3/31/2005
FR 2856792	A method of determining the quantity or concentration of molecules in a sample involving illuminating the sample and capturing the diffused light for image analysis; useful for clinical diagnosis.	French Atomic Energy Commission (Paris)	Perraut F, Schultz E	6/27/2003	12/31/2004
WO 200499773	A method for imaging target objects inside or outside cells in a sample, comprising automatically determining the outlines of the cells and target objects in the sample; useful for diagnosing a disease or clastogenicity and/or aeneugenicity of a stimulus.	Pfizer (New York); Pfizer Products (Groton, CT, USA)	Dunn MC, Ryley LC, Xu JJ, Xu J	4/30/2003	11/18/2004
WO 200470366	A fluorescent imaging system with a vertical illuminating system, and a microscope optical system having lenses, an exciter filter, a dichroic mirror and a digital recording system; useful for observing proteins in a cell.	Correct Medias (Tokyo); Inabata & Co. (Osaka, Japan)	Isono K	2/4/2003	8/19/2004
EP 1428858	New hydrophilic markers based on asymmetric polymethine dyes; useful in qualitative and quantitative analysis of biomolecules, for example, in diagnostic cell imaging.	Dyomics (Jena, Germany); Czerney P; Frank W; Schweder B; Wenzel M	Czerney P, Frank W, Schweder B, Wenzel M	12/10/2002	6/16/2004
JP 2004054347	A living cell image processing method for DNA performance analysis, where the phase-difference image and fluorescent image of same visual field of a living cell are acquired, the edges of the cell outline and nuclear outline of the cell are extracted from the acquired phase-difference and fluorescent images respectively, and the cell outline is extracted.	Fujitsu (Tokyo)	–	7/16/2002	2/19/2004
US 20030184730	A method of controlling the autofocusing of a microscope by establishing an initial focal range for volume scanning of a cellular tissue sample, detecting a sample surface in response to registered optical characteristics, and mapping images from a set of optical planes in response to the location of the sample surface.	Regents of the University of California (Oakland, CA, USA)	Price JH	1/23/2002	10/2/2003

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