Title (en)

METHODS AND SYSTEMS FOR ANALYZING FLUORESCENT MATERIALS WITH REDUCED AUTOFLUORESCENCE

Title (de)

VERFAHREN UND SYSTEME ZUR ANALYSE VON FLUORESZIERENDEN MATERIALIEN MIT REDUZIERTER EIGENFLUORESZENZ

Title (fr)

PROCÉDÉS ET SYSTÈMES D'ANALYSE DE MATIÈRE FLUORESCENTE À AUTOFLUORESCENCE LIMITÉE

Publication

EP 2150806 A4 20130102 (EN)

Application

EP 08767652 A 20080509

Priority

- US 2008005953 W 20080509
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- US 90127307 A 20070914

Abstract (en)

[origin: WO2008140758A1] Mitigative and remedial approaches to reduction of autofluorescence background noise are applied in analytical systems that rely upon sensitive measurement of fluorescent signals from arrays of fluorescent signal sources. Such systems are for particular use in fluorescence based sequencing by incorporation systems that rely upon small numbers or individual fluorescent molecules in detecting incorporation of nucleotides in primer extension reactions. Systems and methods for analyzing highly multiplexed sample arrays using highly multiplexed, high-density optical systems to illuminate high- density sample arrays and/or provide detection and preferably confocal detection off signals emanating from such high-density arrays. Systems and methods are applied in a variety of different analytical operations, including analysis of biological and biochemical reactions, including nucleic acid synthesis and derivation of sequence information from such synthesis.

IPC 8 full level

G01N 21/64 (2006.01); **G01N 21/76** (2006.01); **G01N 24/00** (2006.01); **G02B 21/00** (2006.01)

CPC (source: EP)

G01N 21/6452 (2013.01); **G01N 27/447** (2013.01); **G02B 21/0032** (2013.01); G01N 21/6458 (2013.01)

Citation (search report)

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Citation (examination)

JOHANSSON M ET AL: "DESIGN, FABRICATION, AND EVALUATION OF A MULTICHANNEL DIFFRACTIVE OPTIC ROTARY JOINT", APPLIED OPTICS, OPTICAL SOCIETY OF AMERICA, WASHINGTON, DC; US, vol. 38, no. 8, 10 March 1999 (1999-03-10), pages 1302 - 1310, XP000823450, ISSN: 0003-6935, DOI: 10.1364/AO.38.001302

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DOCDB simple family (application)

US 2008005953 W 20080509; AU 2008251861 A 20080509; CA 2687062 A 20080509; EP 08767652 A 20080509