

Title (en)

FLUORESCENT LIFETIME BIOLOGICAL DETECTION AND IMAGING USING WATER-STABLE SEMICONDUCTOR NANOCRYSTALS

Title (de)

BIOLOGISCHE FLUORESCENZLEBENSDAUER-DETEKTION UND -ABBILDUNG UNTER VERWENDUNG WASSERSTABILER HALBLEITER-NANOKRISTALLE

Title (fr)

IMAGERIE ET DETECTION BIOLOGIQUE PAR FLUORESCENCE AU MOYEN DE NANOCRISTAUX SEMI-CONDUCTEURS STABLES DANS L'EAU

Publication

**EP 1784502 A4 20071003 (EN)**

Application

**EP 05769351 A 20050708**

Priority

- US 2005024211 W 20050708
- US 88586704 A 20040708

IPC 8 full level

**G01N 33/58** (2006.01); **G01N 21/64** (2006.01)

CPC (source: EP)

**G01N 21/6408** (2013.01); **G01N 33/588** (2013.01)

Citation (search report)

- [X] US 2004115817 A1 20040617 - LIU WEI [US], et al
- [X] ALIVISATOS PAUL: "The use of nanocrystals in biological detection.", NATURE BIOTECHNOLOGY, vol. 22, no. 1, January 2004 (2004-01-01), pages 47 - 52, XP002446195, ISSN: 1087-0156
- [X] WU X ET AL: "IMMUNOFLUORESCENT LABELING OF CANCER MARKER HER2 AND OTHER CELLULAR TARGETS WITH SEMICONDUCTOR QUANTUM DOTS", NATURE BIOTECHNOLOGY, NATURE PUB. CO, NEW YORK, NY, US, vol. 21, January 2003 (2003-01-01), pages 41 - 46, XP008053284, ISSN: 1087-0156
- [Y] DAHAN M ET AL: "TIME-GATED BIOLOGICAL IMAGING BY USE OF COLLOIDAL QUANTUM DOTS", OPTICS LETTERS, OSA, OPTICAL SOCIETY OF AMERICA, WASHINGTON, DC, US, vol. 26, no. 11, 1 June 2001 (2001-06-01), pages 825 - 827, XP001103014, ISSN: 0146-9592
- [Y] LAKOWICZ JOSEPH R ET AL: "Time-resolved spectral observations of cadmium-enriched cadmium sulfide nanoparticles and the effects of DNA oligomer binding", ANALYTICAL BIOCHEMISTRY, vol. 280, no. 1, 10 April 2000 (2000-04-10), pages 128 - 136, XP002446376, ISSN: 0003-2697
- See references of WO 2006014576A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

CA 2573150 A1 20060209; EP 1784502 A2 20070516; EP 1784502 A4 20071003

DOCDB simple family (application)

CA 2573150 A 20050708; EP 05769351 A 20050708