

Title (en)

BIOSENSING USING SURFACE PLASMON RESONANCE

Title (de)

BIOSENSOR MIT OBERFLÄCHEN-PLASMON-RESONANZ

Title (fr)

BIODETECTION PAR RESONANCE PLASMONIQUE DE SURFACE

Publication

EP 1236034 A4 20060503 (EN)

Application

EP 00991009 A 20001113

Priority

- US 0042139 W 20001113
- US 16507599 P 19991112
- US 17068299 P 19991214
- US 62979000 A 20000731

Abstract (en)

[origin: WO0135081A1] The invention provides methods and reagents for the enhancement of surface plasmon resonance (SPR)-based detection assays. The methods and reagents can be used in any molecular recognition assay that uses a solid support. The invention also provides an SPR instrument that operates in imaging mode.

IPC 1-7

G01N 21/55

IPC 8 full level

B01J 19/00 (2006.01); **B01L 3/00** (2006.01); **C12M 1/00** (2006.01); **C12N 15/09** (2006.01); **C12Q 1/68** (2006.01); **G01N 21/03** (2006.01); **G01N 21/27** (2006.01); **G01N 21/33** (2006.01); **G01N 21/55** (2006.01); **G01N 33/543** (2006.01); **G01N 33/553** (2006.01); **G01N 33/58** (2006.01); **G01N 37/00** (2006.01); **C40B 40/06** (2006.01); **C40B 40/10** (2006.01); **C40B 40/12** (2006.01); **C40B 60/14** (2006.01)

CPC (source: EP)

B01J 19/0046 (2013.01); **B01L 3/5085** (2013.01); **B82Y 15/00** (2013.01); **B82Y 30/00** (2013.01); **C12Q 1/6825** (2013.01); **G01N 21/553** (2013.01); **G01N 33/54373** (2013.01); **G01N 33/553** (2013.01); **G01N 33/588** (2013.01); **B01J 2219/00317** (2013.01); **B01J 2219/00387** (2013.01); **B01J 2219/00585** (2013.01); **B01J 2219/00596** (2013.01); **B01J 2219/00605** (2013.01); **B01J 2219/00612** (2013.01); **B01J 2219/00626** (2013.01); **B01J 2219/00637** (2013.01); **B01J 2219/00659** (2013.01); **B01J 2219/00691** (2013.01); **B01J 2219/00707** (2013.01); **B01J 2219/00722** (2013.01); **B01J 2219/00725** (2013.01); **B01J 2219/00731** (2013.01); **B01L 2300/168** (2013.01); **C40B 40/06** (2013.01); **C40B 40/10** (2013.01); **C40B 40/12** (2013.01); **C40B 60/14** (2013.01); **G01N 21/554** (2013.01)

C-Set (source: EP)

C12Q 1/6825 + C12Q 2565/628

Citation (search report)

- [XY] WO 9954786 A1 19991028 - HARVARD COLLEGE [US], et al
- [Y] US 5955729 A 19990921 - NELSON RANDALL W [US], et al
- [XY] JACKMAN R J ET AL: "Using Elastomeric Membranes as Dry Resists and for Dry Lift-OFF", LANGMUIR, AMERICAN CHEMICAL SOCIETY, NEW YORK, NY, US, vol. 15, 19 March 1999 (1999-03-19), pages 2973 - 2984, XP002179004, ISSN: 0743-7463
- [Y] LEUNG P-T ET AL: "Modelling of particle-enhanced sensitivity of the surface-plasmon-resonance biosensor", SENSORS AND ACTUATORS B, ELSEVIER SEQUOIA S.A., LAUSANNE, CH, vol. 22, no. 3, December 1994 (1994-12-01), pages 175 - 180, XP004011061, ISSN: 0925-4005
- [YD] KABASHIN A V ET AL: "Surface plasmon resonance interferometer for bio- and chemical-sensors", OPTICS COMMUNICATIONS, NORTH-HOLLAND PUBLISHING CO. AMSTERDAM, NL, vol. 150, no. 1-6, 1 May 1998 (1998-05-01), pages 5 - 8, XP004127259, ISSN: 0030-4018
- See references of WO 0135081A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

WO 0135081 A1 20010517; AU 3081301 A 20010606; CA 2391009 A1 20010517; EP 1236034 A1 20020904; EP 1236034 A4 20060503; JP 2003514224 A 20030415

DOCDB simple family (application)

US 0042139 W 20001113; AU 3081301 A 20001113; CA 2391009 A 20001113; EP 00991009 A 20001113; JP 2001536562 A 20001113