

22 Documents

Publication numbers	Title	Current assignees
US20040011975 A1	Sensors and methods for high-sensitivity optical particle counting and sizing	PSS ACQUISITION, ...
WO2014171597 A1	Method for manufacturing nanoparticle array, surface plasmon resonance-based sensor and method for analyzing using same	PLEXENSE
WO2005122285 A2	Printable semiconductor structures and related methods of making and assembling	UNIVERSITY OF ILLINOIS
WO201203348 A2	Apparatus for disease detection	ANPAC BIO MEDICAL SCIENCE
WO200417050 A1	Tear film osmometry	UNIVERSITY OF CALIFORNIA
WO2014100725 A1	Portable fluorescence detection system and microassay cartridge	MICRONICS
WO201633652 A1	Microfluidic devices and fabrication	NEWSOUTH INNOVATIONS, ...
WO201188214 A2	Sampling device interfaces	SEVENTH SENSE BIOSYSTEMS
WO200715710 A2	The fabrication and application of nanofiber ribbons and sheets and twisted and non-twisted nanofiber yarns	UNIVERSITY OF TEXAS
WO200759491 A2	Novel hydrogels and uses thereof	UNIVERSITY OF DELAWARE
US20060025524 A1	Novel hydrogels and uses thereof	UNIVERSITY OF DELAWARE
US6142939 A	Microporation of human skin for drug delivery and monitoring applications	ALTEA DEVELOPMENT, ...
WO200074764 A1	Method of manufacturing an intracutaneous microneedle array	CORIUM INTERNATIONAL
WO9927351 A1	Bioluminescent bioreporter integrated circuit	UT BATTELLE
WO2009146143 A2	Ex-vivo multi-dimensional system for the separation and isolation of cells, vesicles, nanoparticles and biomarkers	UNIVERSITY OF CALIFORNIA
CN101792869 A	Cluster and orebody	LIU WENXIANG
CA2876139 A1	Nanotherapeutics for drug targeting	PRESIDENT & FELLOWS OF HARVARD COLLEGE
WO2011113436 A1	A method for promotion of hemostasis and/or wound healing	FERROSAN
GB201203430 D0	Chemical reaction by combination of gas - phase and wet - chemical methods	GALINIS GEDIMINAS
WO200750702 A2	Immunogenic compositions and methods of use	ARTIFICIAL CELL TECHNOLOGIES

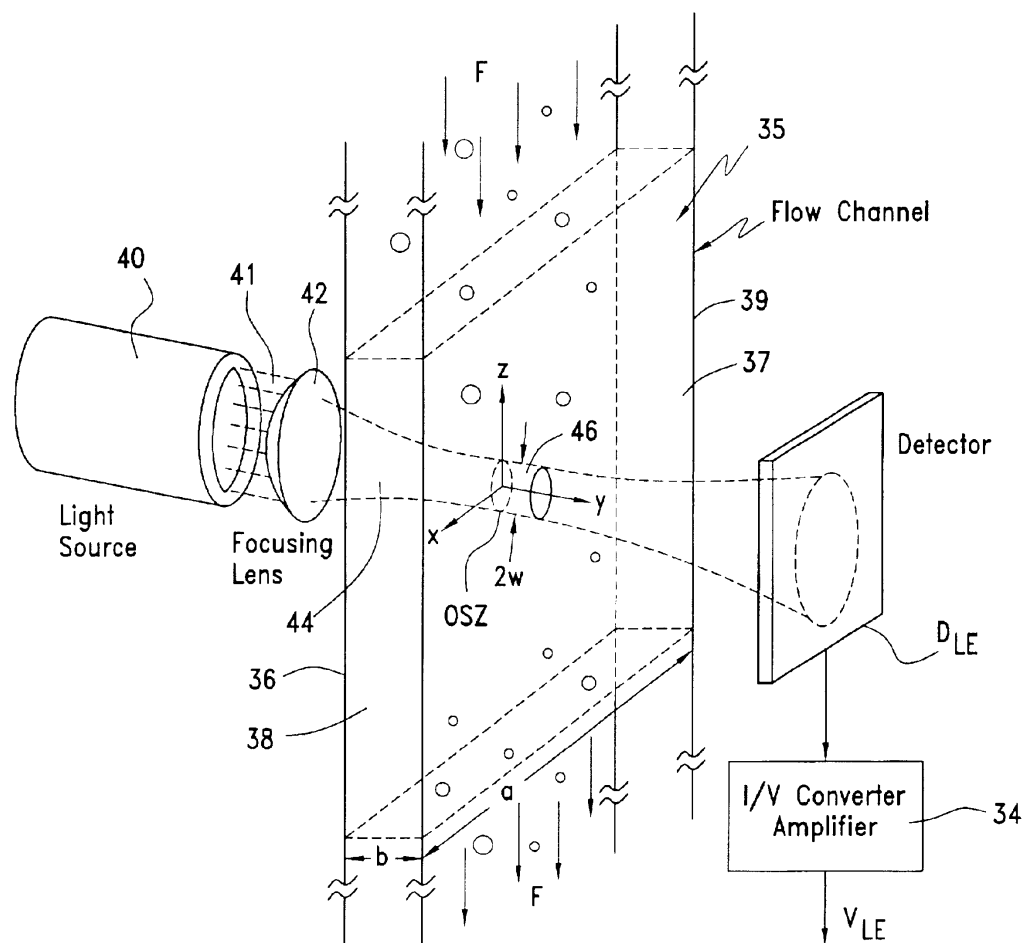
Publication numbers	Title	Current assignees
WO200759312 A2	Methods and compositions comprising non-natural amino acids	AMBRX
WO9640457 A2	Novel targeted compositions for diagnostic and therapeutic use	IMARX PHARMACEUTICAL

Family 1/22 - FAMPAT - ©Questel

Title

(EP2388569)

Sensors and methods for high-sensitivity optical particle counting and sizing

Images**Publication data including kind & date**

US20040011975	A1	2004-01-22	US20040011975
WO2004010113	A1	2004-01-29	WO200410113
AU2003239583	A1	2004-02-09	AU2003239583
US6794671	B2	2004-09-21	US6794671
US20040265177	A1	2004-12-30	US20040265177
WO2005001471	A1	2005-01-06	WO200501471
US20050021244	A1	2005-01-27	US20050021244
EP1535040	A1	2005-06-01	EP1535040
CN1682105	A	2005-10-12	CN1682105
JP2005533262	A	2005-11-04	JP2005533262
EP1656552	A1	2006-05-17	EP1656552
CN1839312	A	2006-09-27	CN1839312
US7127356	B2	2006-10-24	US7127356
JP2006527854	A	2006-12-07	JP2006527854
US7150996	B2	2006-12-19	US7150996



US20070010974	A1	2007-01-11	US20070010974				
EP1656552	A4	2007-07-11	EP1656552				
US7496463	B2	2009-02-24	US7496463				
EP1535040	A4	2009-05-13	EP1535040				
JP4444957	B2	2010-03-31	JP4444957				
JP2010164572	A	2010-07-29	JP2010164572				
JP4808963	B2	2011-11-02	JP4808963				
EP2388569	A1	2011-11-23	EP2388569				
JP4950314	B2	2012-06-13	JP4950314				
CN102879317	A	2013-01-16	CN102879317				
CN1682105	B	2014-02-26	CN1682105B				
EP1656552	B1	2014-03-26	EP1656552				
CN102879317	B	2016-04-13	CN102879317B				
EP1535040	B1	2016-08-17	EP1535040				

Abstract

(EP2388569)

A method of compensating a single-particle optical sizing sensor for sizing particles in a relatively concentrated fluid suspension sample for turbidity of said suspension sample is described. The sensor operates on a light extinction principle whereby a photo-detector produces a signal $V_{LE}(t)$ having a baseline voltage level and a response to blockage of light by a particle as a downwardly extending pulse from said baseline voltage level. The method comprises passing a non-turbid suspension through said sensor, measuring a baseline voltage level V_0 produced in response to said non-turbid suspension, passing said relatively concentrated suspension sample through said sensor, measuring a baseline voltage $V_0 T$ produced in response to said relatively concentrated suspension sample, calculating the ratio $G = V_0 / V_0 T$, and adjusting said sensor in response to G to compensate for said turbidity when said relatively concentrated suspension sample passes through said sensor.

Inventors

NICOLI DAVID F

TOUMBAS PAUL

Latest standardized assignees - inventors removed

PSS ACQUISITION

ENTEGRIS

Family 2/22 - FAMPAT - ©Questel

Title

(WO2014171597)

Method for manufacturing nanoparticle array, surface plasmon resonance-based sensor and method for analyzing using same

Images

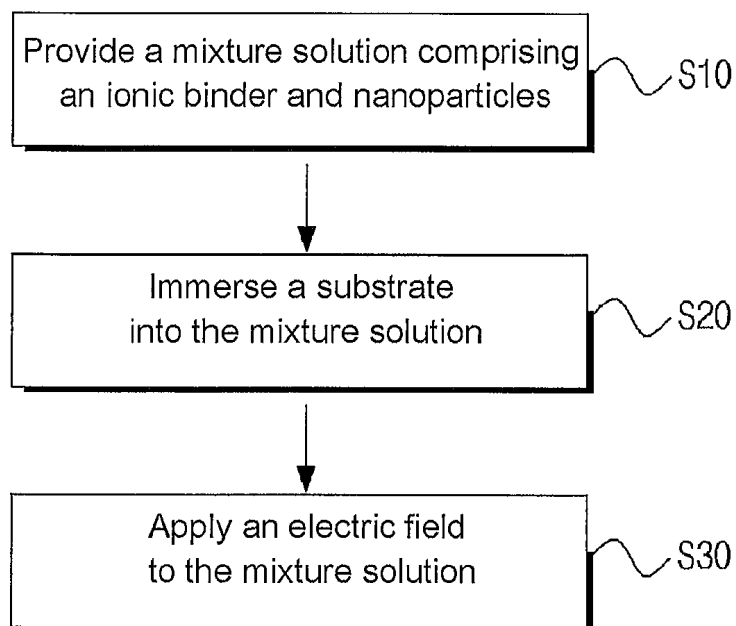


FIG. 1

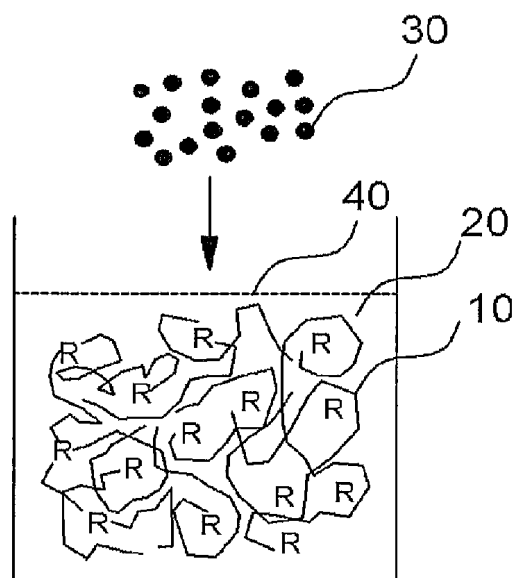


FIG. 2a

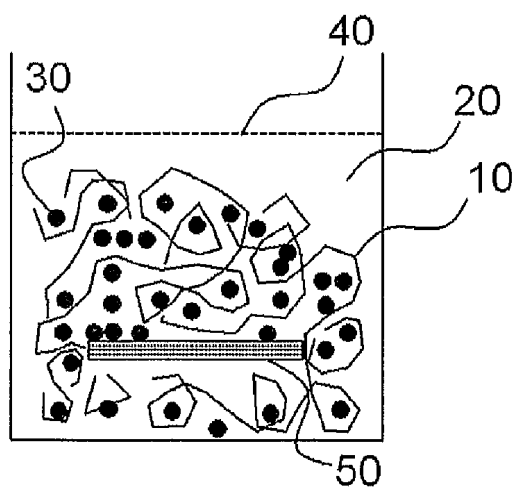


FIG. 2b

Publication data including kind & date

WO2014171597	A1	2014-10-23	WO2014171597
KR20140124316	A	2014-10-24	KR20140124316
KR101592241	B1	2016-02-05	KR101592241
US20160146733	A1	2016-05-26	US20160146733



Abstract

(WO2014171597)

The present invention relates to a method for manufacturing a nanoparticle array, a surface plasmon resonance-based sensor, and a method for analyzing using the same. According to one embodiment of the present invention, after a mixed solution of an **ionized** binder and conductive nanoparticles is prepared, a substrate is dipped into the mixed solution. Thereafter, by applying an electrical field to the mixed solution into which the substrate is dipped so as to induce coating of the conductive nanoparticles on the substrate, it is possible to manufacture, by a wet method, a nanoparticle array in which the conductive nanoparticles are quickly coated on the substrate with high density.

Inventors

KIM GI BUM

Latest standardized assignees - inventors removed

PLEXENSE

Family 3/22 - FAMPAT - ©Questel

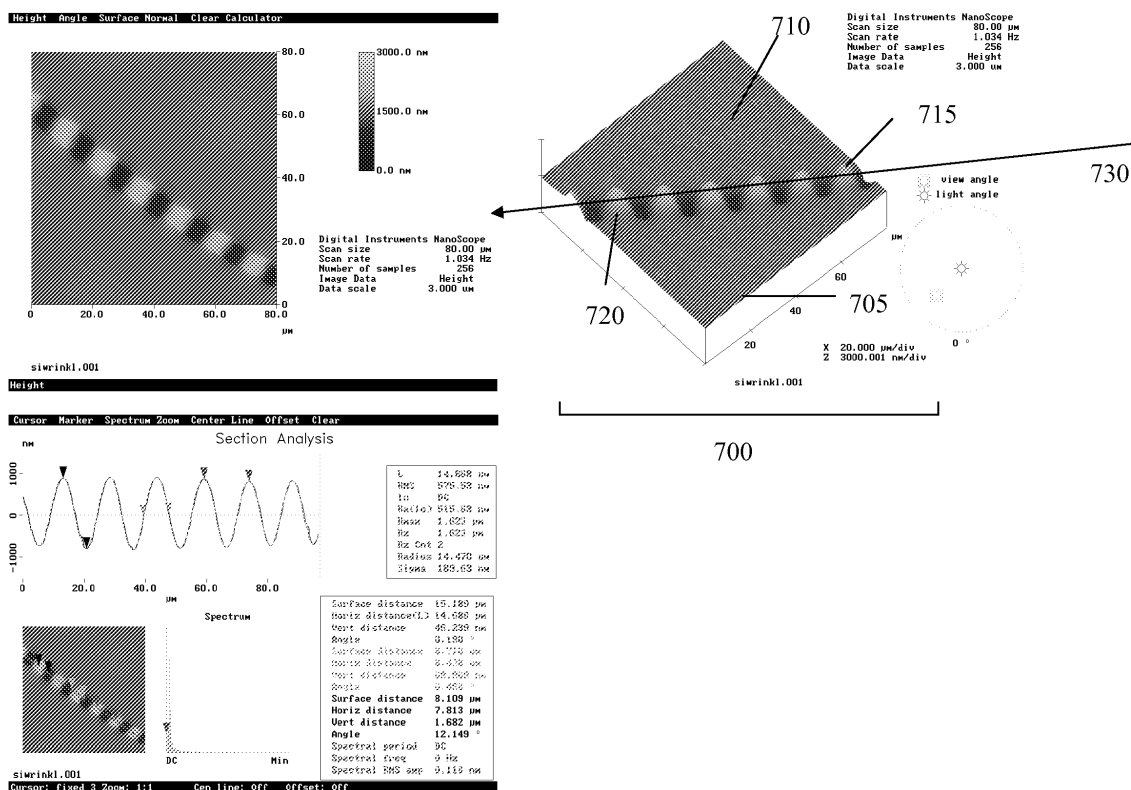
Title

(EP2937896)

Printable semiconductor structures and related methods of making and assembling

Images

Stretchable semiconductor element



Publication data including kind & date

WO2005122285	A2	2005-12-22	WO2005122285
US20060038182	A1	2006-02-23	US20060038182
TW200618321	A	2006-06-01	TW200618321



KR20060125620	A	2006-12-06	KR20060125620				
WO2006130721	A2	2006-12-07	WO2006130721				
US20060286785	A1	2006-12-21	US20060286785				
JP2007027693	A	2007-02-01	JP2007027693				
US20070032089	A1	2007-02-08	US20070032089				
EP1759422	A2	2007-03-07	EP1759422				
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KR20070037484	A	2007-04-04	KR20070037484				
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TW200721517	A	2007-06-01	TW200721517				
TWI284423	B	2007-07-21	TWI284423				
IN1298/DEL/2006	A	2007-08-17	IN2006DE01298				
IN7581/DELNP/2006	A	2007-08-24	IN2006DN07581				
WO2005122285	A3	2007-08-30	WO2005122285				
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KR100798431	B1	2008-01-28	KR100798431				
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US20090294803	A1	2009-12-03	US20090294803				
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MY151572	A	2014-06-13	MY-151572				
US8754396	B2	2014-06-17	US8754396				
US20140191236	A1	2014-07-10	US20140191236				
TW201428984	A	2014-07-16	TW201428984				
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MY152238	A	2014-09-15	MY-152238				
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JP2015201649	A	2015-11-12	JP2015201649				
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US20160027737	A1	2016-01-28	US20160027737				
IN6351/DELNP/2014	A	2016-04-29	IN2014DN06351				
TWI533459	B	2016-05-11	TWI533459				
HK1211742	A1	2016-05-27	HK1211742				
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US9515025	B2	2016-12-06	US9515025				
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JP2017034261	A	2017-02-09	JP2017034261				
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US9761444	B2	2017-09-12	US9761444				
US9768086	B2	2017-09-19	US9768086				
US20170309733	A1	2017-10-26	US20170309733				
CN103646848	B	2018-06-05	CN103646848B				

Abstract

(EP2937896)

The present invention provides a high yield pathway for the fabrication, transfer and assembly of high quality printable semiconductor elements having selected physical dimensions, shapes, compositions and spatial orientations. The compositions and methods of the present invention provide high precision registered transfer and integration of arrays of micro-sized and/or nano-sized semiconductor structures onto substrates, including large area substrates and/or flexible substrates. In addition, the present invention provides methods of making printable semiconductor elements from low cost bulk materials, such as bulk silicon wafers, and smart-materials processing strategies that enable a versatile and commercially attractive printing-based fabrication platform for making a broad range of functional semiconductor devices.

Inventors

NUZZO RALPH G

ROGERS JOHN A

MENARD ETIENNE

LEE KEON JAE

KHANG DAHL-YOUNG

SUN YUGANG

MEITL MATTHEW

ZHU ZHENGTAO

KO HEUNG CHO

MACK SHAWN

Latest standardized assignees - inventors removed

UNIVERSITY OF ILLINOIS

Family 4/22 - FAMPAT - ©Questel

Title

(EP2588860)

Apparatus for disease detection

Images

KR20130131453	A	2013-12-03	KR20130131453				
BR112012033783	A1	2013-12-31	BR112012033783				
JP3191355	U	2014-06-19	JP3191355U				
CA2906746	A1	2014-09-15	CA2906746				
CA2906749	A1	2014-09-15	CA2906749				
CA2818369	A1	2014-09-15	CA2818369				
MX2013008880	A	2014-09-17	MX2013008880				
US20140263126	A1	2014-09-18	US20140263126				
AU2013203895	A1	2014-10-02	AU2013203895				
IN0811/DELNP/2013	A	2014-10-24	IN2013DN00811				
CL2014000577	A1	2014-12-26	CL0577201400				
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NZ606052	A	2016-08-26	NZ-606052				
AU2011272837	B2	2016-09-08	AU2011272837				
AU2016235024	A1	2016-10-27	AU2016235024				
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EP2588860	A4	2017-01-25	EP2588860				
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CA2906746	C	2018-02-27	CA2906746				

Abstract

(EP2588860)

Among others, the present invention provides apparatus for detecting a disease, comprising a system delivery biological subject and a probing and detecting device, wherein the probing and detecting device includes a first micro-device and a first substrate supporting the first micro-device, the first micro-device contacts a biologic material to be detected and is capable of measuring at the microscopic level an electric, magnetic, electromagnetic, thermal, optical, acoustical, biological, chemical, physical, or mechanical property of the biologic material.

Inventors

YU CHRIS C

DU XUEDONG

YU HE

Latest standardized assignees - inventors removed

ANPAC BIO MEDICAL SCIENCE

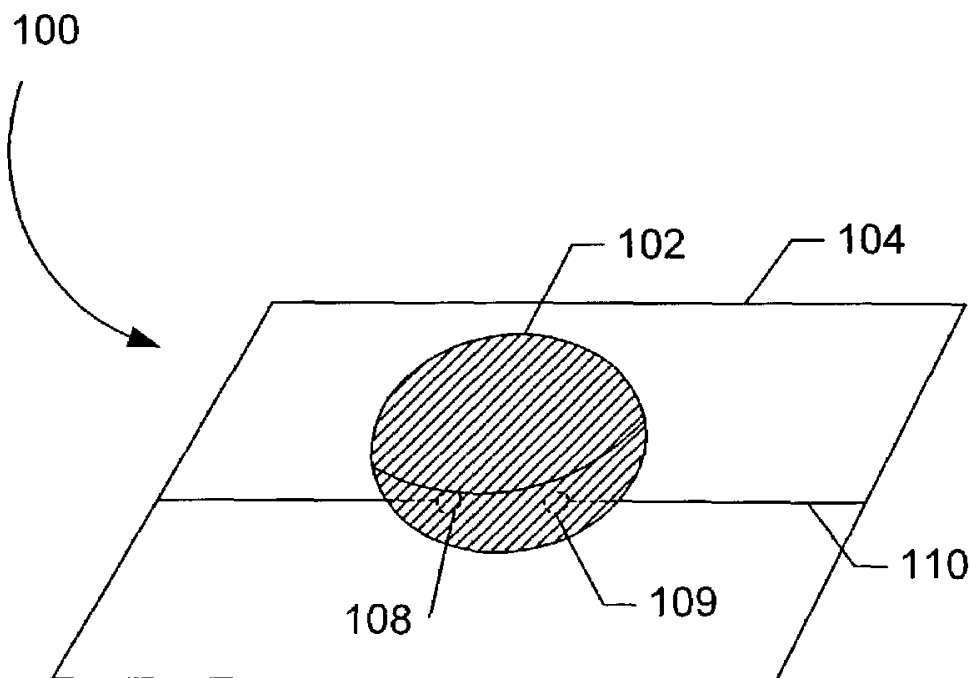
Family 5/22 - FAMPAT - ©Questel

Title

(EP2299255)

Tear film osmometry

Images


Publication data including kind & date

WO2004017050	A1	2004-02-26	WO200417050
US20040036485	A1	2004-02-26	US20040036485
CA2494540	A1	2004-02-26	CA2494540
AU2003233449	A1	2004-03-03	AU2003233449
EP1527330	A1	2005-05-04	EP1527330
MXPA05001481	A	2005-06-06	MX2005PA001481
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WO2005094286	A2	2005-10-13	WO200594286
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WO2005094286	A3	2006-04-13	WO200594286
WO2005076796	A3	2006-05-11	WO200576796
US20060107729	A1	2006-05-25	US20060107729
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US20060137435	A1	2006-06-29	US20060137435
US7111502	B2	2006-09-26	US7111502
EP1711797	A1	2006-10-18	EP1711797
EP1745271	A2	2007-01-24	EP1745271
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EP1711797	A4	2011-02-09	EP1711797



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JP2014240839	A	2014-12-25	JP2014240839				

Abstract

(EP2299255)

Osmolarity measurement of a sample fluid, such as tear film, is achieved by depositing an aliquot-sized sample on a sample receiving substrate. The sample fluid is placed on a sample region of the substrate. Energy is imparted to the sample fluid and energy properties of the fluid can be detected to produce a sample fluid reading that indicates osmolarity of the sample fluid. An aliquot-sized volume can comprise, for example, a volume of no more than 20 microliters (μL). The aliquot-sized sample volume can be quickly and easily obtained, even from dry eye sufferers. The imparted energy can comprise electrical, optical or thermal energy. In the case of electrical energy, the energy property of the sample fluid can comprise electrical conductivity. In the case of optical energy, the energy property can comprise fluorescence. In the case of thermal energy, the measured property can be the freezing point of the sample fluid. The substrate can be packaged into a chip, such as by using semiconductor fabrication techniques. An ex vivo osmolarity sensor system that uses the chip can detect energy from the sample region and can provide an accurate osmolarity measurement without user intervention.

Inventors

SULLIVAN BENJAMIN

Latest standardized assignees - inventors removed

UNIVERSITY OF CALIFORNIA

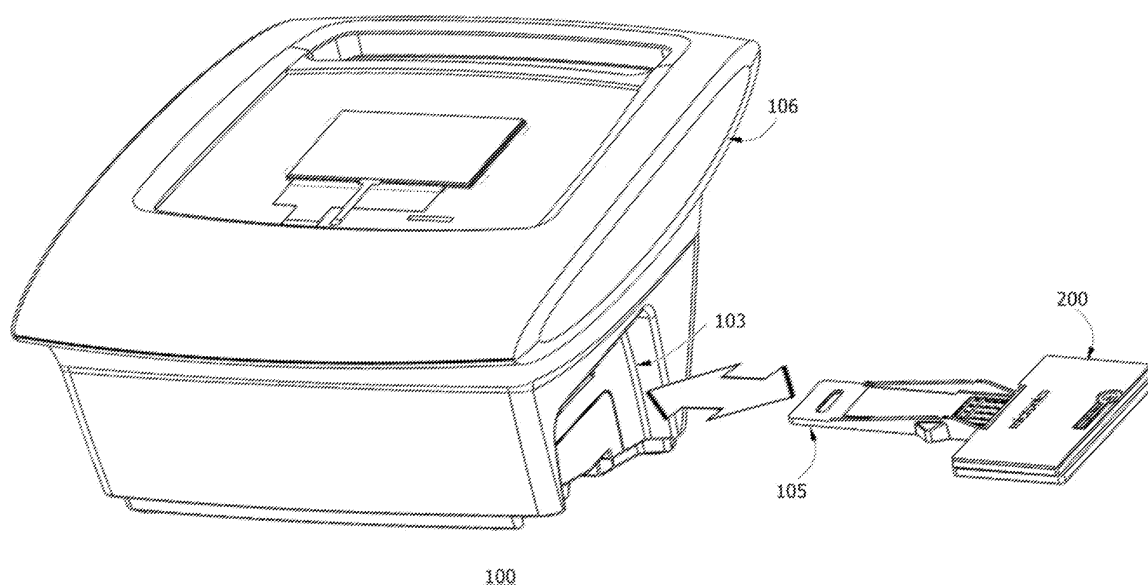
Family 6/22 - FAMPAT - ©Questel

Title

(EP2935559)

Portable fluorescence detection system and microassay cartridge

Images



Publication data including kind & date

WO2014100725	A1	2014-06-26	WO2014100725				
KR20150097764	A	2015-08-26	KR20150097764				
CN104919035	A	2015-09-16	CN104919035				
EP2935559	A1	2015-10-28	EP2935559				
US20150346097	A1	2015-12-03	US20150346097				
JP2016509206	A	2016-03-24	JP2016509206				
EP2935559	A4	2017-01-04	EP2935559				
CN104919035	B	2017-08-11	CN104919035B				

Abstract

(EP2935559)

Disclosed is a compact, microprocessor-controlled instrument for fluorometric assays in liquid samples, the instrument having a floating stage with docking bay for receiving a microfluidic cartridge and a scanning detector head with on-board embedded microprocessor operated under control of a ODAP daemon resident in the detector head for controlling source LEDs, emission signal amplification and filtering in an isolated, low noise, high-gain environment within the detector head. Multiple optical channels may be incorporated in the scanning head. In a preferred configuration, the assay is validated using dual channel optics for monitoring a first fluorophore associated with a target analyte and a second fluorophore associated with a control. Applications include molecular biological assays based on PCR amplification of target nucleic acids and fluorometric assays in general, many of which require temperature control during detection.

Inventors

BATTRELL C FREDERICK

DAIBER TROY D

HUNTER WILLIAM SAMUEL

Latest standardized assignees - inventors removed

MICRONICS

Family 7/22 - FAMPAT - ©Questel

Title

(EP3188775)

Microfluidic devices and fabrication

Images

CN102811754	B	2017-05-17	CN102811754B				
CN107115115	A	2017-09-01	CN107115115				
EP3243435	A1	2017-11-15	EP3243435				
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JP2018011975	A	2018-01-25	JP2018011975				
US20180242890	A1	2018-08-30	US20180242890				

Abstract

(EP3243435)

The present invention generally relates to systems and methods for delivering and/or withdrawing a substance or substances such as blood or interstitial fluid, from subjects, e.g., from the skin and/or from beneath the skin. In one aspect, the present invention is generally directed to devices and methods for withdrawing or extracting blood from a subject, e.g., from the skin and/or from beneath the skin, using devices containing a fluid transporter (for example, one or more microneedles), and a storage chamber having an internal pressure less than atmospheric pressure prior to receiving blood. In some cases, the device may be self-contained, and in certain instances, the device can be applied to the skin, and activated to withdraw blood from the subject. The device, in some cases, may be interfaced with external equipment to determine an analyte contained within a fluid contained within or collected by the device. For example, the device may be mounted or engaged on an external holder, the device may include a port for transporting fluid out of the device, the device may include a window for interrogating a fluid contained within the device, or the like. The device, or a portion thereof, may then be processed to determine the blood and/or an analyte within the blood, alone or with an external apparatus. For example, blood may be withdrawn from the device, and/or the device may contain sensors or agents able to determine the blood and/or an analyte suspected of being contained in the blood. Other aspects of the present invention are directed at other devices for withdrawing blood (or other bodily fluids, e.g., interstitial fluid), kits involving such devices, methods of making such devices, methods of using such devices, and the like.

Inventors

CHICKERING DONALD E

DAVIS SHAWN

HAGHGOOIE RAMIN

BERNSTEIN HOWARD

LEVINSON DOUGLAS A

Latest standardized assignees - inventors removed

SEVENTH SENSE BIOSYSTEMS

Family 9/22 - FAMPAT - ©Questel

Title

(EP1814713)

The fabrication and application of nanofiber ribbons and sheets and twisted and non-twisted nanofiber yarns

Images



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CN103276486	A	2013-09-04	CN103276486				
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KR20130115399	A	2013-10-21	KR20130115399				
JP5350635	B2	2013-11-27	JP5350635				
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US9862607	B2	2018-01-09	US9862607				
JP6282327	B2	2018-02-21	JP6282327				
US9944529	B2	2018-04-17	US9944529				
JP6312759	B2	2018-04-18	JP6312759				
JP2018066106	A	2018-04-26	JP2018066106				
CN108425170	A	2018-08-21	CN108425170				

Abstract

(EP1814713)

The present invention is directed to nanofiber yarns, ribbons, and sheets; to methods of making said yarns, ribbons, and sheets; and to applications of said yarns, ribbons, and sheets. In some embodiments, the nanotube yarns, ribbons, and sheets comprise carbon nanotubes. Particularly, such carbon nanotube yarns of the present invention provide unique

properties and property combinations such as extreme toughness, resistance to failure at knots, high electrical and thermal conductivities, high absorption of energy that occurs reversibly, up to 13% strain-to-failure compared with the few percent strain-to-failure of other fibers with similar toughness, very high resistance to creep, retention of strength even when heated in air at 450°C for one hour, and very high radiation and UV resistance, even when irradiated in air. Furthermore these nanotube yarns can be spun as one micron diameter yarns and plied at will to make two-fold, four-fold, and higher fold yarns. Additional embodiments provide for the spinning of nanofiber sheets having arbitrarily large widths. In still additional embodiments, the present invention is directed to applications and devices that utilize and/or comprise the nanofiber yarns, ribbons, and sheets of the present invention.

Inventors

ZHANG MEI

FANG SHAOLI

BAUGHMAN RAY H

ZAKHIDOV ANVAR A

ATKINSON KENNETH ROSS

ALIEV ALI E

LI SERGEY

WILLIAMS CHRIS

Latest standardized assignees - inventors removed

UNIVERSITY OF TEXAS

Family 10/22 - FAMPAT - ©Questel

Title

(EP1962870)

Novel hydrogels and uses thereof

Images

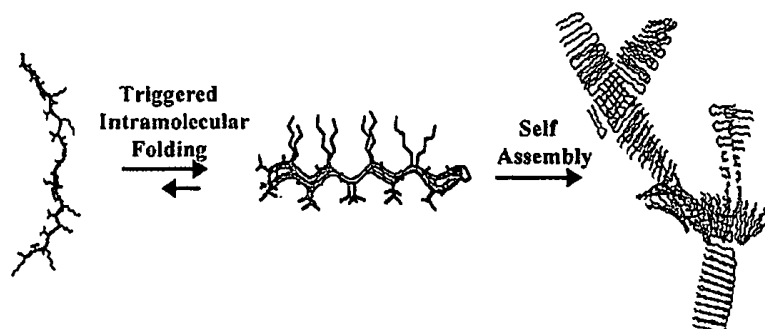


Figure 1

Publication data including kind & date

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CA2629897	A1	2007-05-24	CA2629897
US20070128175	A1	2007-06-07	US20070128175
WO2007059491	A8	2008-02-07	WO200759491
EP1962870	A2	2008-09-03	EP1962870
JP2009523118	A	2009-06-18	JP2009523118
EP1962870	A4	2010-08-11	EP1962870
US7858585	B2	2010-12-28	US7858585
US20110052692	A1	2011-03-03	US20110052692



Abstract

(EP1962870)

The present invention provides novel hydrogels and methods of making and using such hydrogels. The present invention provides hydrogels that may be formed by the self-assembly of peptides in solution. Such self-assembly may be brought about by a change in one or more characteristics of the solution. Characteristics of the solution that may be changed include pH, **ionic** strength, temperature, and concentration of one or more specific **ions**. In addition, hydrogels of the invention may be disassembled by changing one or more characteristic of the hydrogel such as pH, **ionic** strength, temperature, and concentration of one or more specific **ions**.

Inventors

BUTTERICK LISA ANN
 KRETSINGER JULIANA
 OZBAS BULENT
 RAJAGOPAL KARTHIKAN
 POCHAN DARRIN J
 SCHNEIDER JOEL P

Latest standardized assignees - inventors removed

UNIVERSITY OF DELAWARE

Family 11/22 - FAMPAT - ©Questel

Title

(EP1781336)

Novel hydrogels and uses thereof

Images

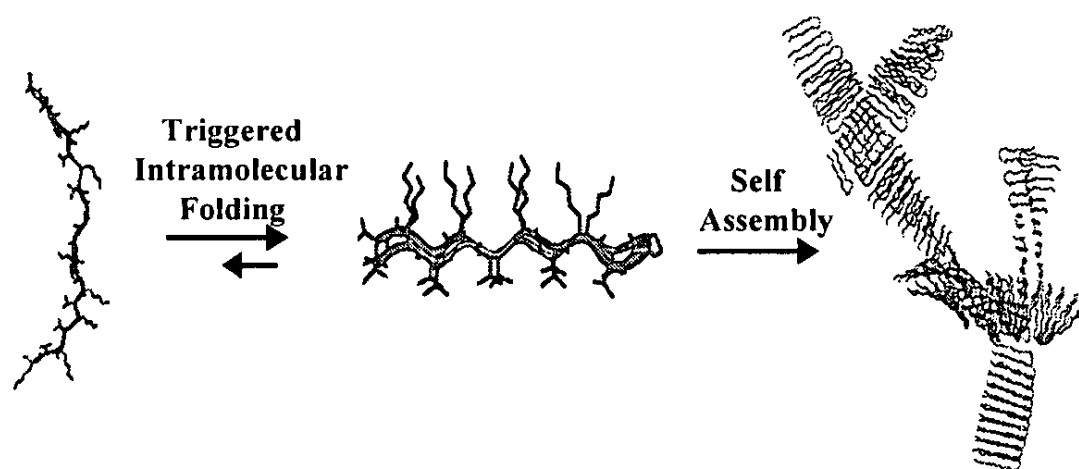


Figure 1

Publication data including kind & date

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WO2006076042	A2	2006-07-20	WO200676042
CA2575522	A1	2006-07-20	CA2575522
WO2006076042	A9	2007-02-08	WO200676042
WO2006076042	A3	2007-05-03	WO200676042
EP1781336	A2	2007-05-09	EP1781336
JP2008508292	A	2008-03-21	JP2008508292
EP1781336	A4	2010-04-07	EP1781336
US7884185	B2	2011-02-08	US7884185
US20110165200	A1	2011-07-07	US20110165200
US8221773	B2	2012-07-17	US8221773



Abstract

(EP1781336)

The present invention provides novel hydrogels and methods of making and using such hydrogels. The present invention provides hydrogels that may be formed by the self-assembly of peptides in solution. Such self-assembly may be brought about by a change in one or more characteristics of the solution. Characteristics of the solution that may be changed

include pH, ionic strength, temperature, and concentration of one or more specific ions. In addition, hydrogels of the invention may be disassembled by changing one or more characteristic of the hydrogel such as pH, ionic strength, temperature, and concentration of one or more specific ions.

Inventors

SCHNEIDER JOEL P

POCHAN DARRIN J

OZBAS BULENT

RAJAGOPAL KARTHIKAN

KRETSINGER JULIANA

BUTTERICK LISA ANN

Latest standardized assignees - inventors removed

UNIVERSITY OF DELAWARE

Family 12/22 - FAMPAT - ©Questel

Title

(US6142939)

Microporation of human skin for drug delivery and monitoring applications

Images

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"Preparation of Isolated Sheets of Human Stratum Corneum" Kligman et al., 88 Arch. Dermatol. (1963) 702-705.

Publication data including kind & date

US6142939	A	2000-11-07	US6142939
US20020169394	A1	2002-11-14	US20020169394



Abstract

(US6142939)

A method of enhancing the permeability of the skin to an analyte for diagnostic purposes or to a drug for therapeutic purposes is described utilizing microporation and optionally sonic energy and a chemical enhancer. If selected, the sonic energy may be modulated by means of frequency modulation, amplitude modulation, phase modulation, and/or combinations thereof. Microporation is accomplished by (a) ablating the stratum corneum by localized rapid heating of water such that such water is vaporized, thus eroding the cells; (b) puncturing the stratum corneum with a micro-lancet calibrated to form a micropore of up to about 1000 μm in diameter; (c) ablating the stratum corneum by focusing a tightly focused

beam of sonic energy onto the stratum corneum; (d) hydraulically puncturing the stratum corneum with a high pressure jet of fluid to form a micropore of up to about 1000 μm in diameter, or (e) puncturing the stratum corneum with short pulses of electricity to form a micropore of up to about 1000 μm in diameter. A dye with an absorption maximum matched to the wavelength of a pulsed light source can be absorbed into the stratum corneum to concentrate the energy of the pulsed light source and aid in ablation of the stratum corneum. Alternatively, a hot wire can be caused to contact the stratum corneum.

Inventors

EPPSTEIN JONATHAN A

HATCH MICHAEL R

YANG DIFEI

Latest standardized assignees - inventors removed

ALTEA DEVELOPMENT

GUIDED THERAPEUTICS

MIDCAP FUNDING III SUCCESSOR INTEREST TO MIDCAP FINANCIAL

NITTO DENKO

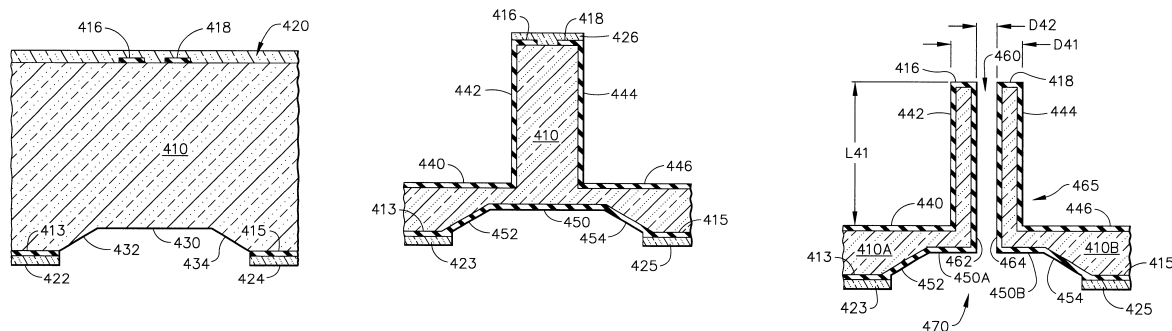
Family 13/22 - FAMPAT - ©Questel

Title

(EP1183064)

Method of manufacturing an intracutaneous microneedle array

Images



Publication data including kind & date

WO200074764	A1	2000-12-14	WO200074764
CA2689890	A1	2000-12-14	CA2689890
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US6312612	B1	2001-11-06	US6312612
US20020020688	A1	2002-02-21	US20020020688
EP1183064	A1	2002-03-06	EP1183064
US6451240	B1	2002-09-17	US6451240
US6471903	B2	2002-10-29	US6471903
TW512067	B	2002-12-01	TW-512067
JP2003501161	A	2003-01-14	JP2003501161
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JP4436992	B2	2010-03-24	JP4436992
CA2689890	C	2012-09-04	CA2689890
EP1183064	B1	2012-12-19	EP1183064



Abstract

(EP1183064)

A microneedle array is manufactured using a mold preparation procedure that begins by placing an optical mask over a layer of PMMA material, exposing the PMMA material to x-rays, then developing using a photoresist process. The

remaining PMMA material is then electroplated with metal. Once the metal has reached an appropriate thickness, it is detached to become a metal mold that is used in a microembossing procedure, in which the metal mold is pressed against a heated layer of plastic material. Once the mold is pressed down to its proper distance, the plastic material is cooled until solidified, and the mold is then detached, thereby leaving behind an array of microneedles. If the microneedles are hollow, then an additional procedure is used to create through-holes all the way through the underlying substrate material using laser optical means.

Inventors

SHERMAN FAIZ F

YUZHAKOV VADIM VLADIMIROVICH

GARTSTEIN VLADIMIR

OWENS GROVER DAVID

Latest standardized assignees - inventors removed

CORIUM INTERNATIONAL

Family 14/22 - FAMPAT - ©Questel

Title

(EP1034424)

Bioluminescent bioreporter integrated circuit

Images

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Abstract

(EP1034424)

Disclosed are monolithic bioelectronic devices comprising a bioreporter and an OASIC. These bioluminescent bioreporter integrated circuits are useful in detecting substances such as pollutants, explosives, and heavy-metals residing in inhospitable areas such as groundwater, industrial process vessels, and battlefields. Also disclosed are methods and apparatus for environmental pollutant detection, oil exploration, drug discovery, industrial process control, and hazardous chemical monitoring.

Inventors

SIMPSON MICHAEL L

SAYLER GARY S

PAULUS MICHAEL J

Latest standardized assignees - inventors removed

UT BATTELLE

Family 15/22 - FAMPAT - ©Questel

Title

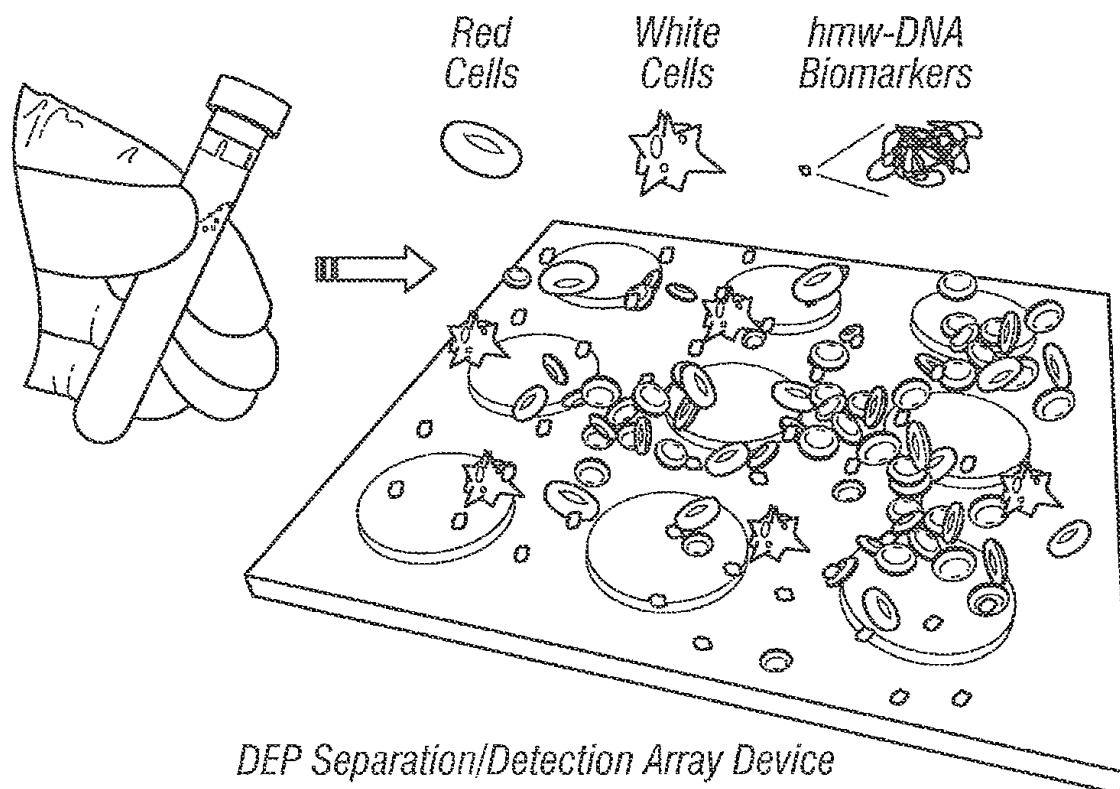
(EP2260297)

Ex-vivo multi-dimensional system for the separation and isolation of cells, vesicles, nanoparticles and biomarkers

Images

Seamless Sample to Answer for Direct Analysis of Blood, Plasma, Serum and Other Biological Samples

Step 1 - Blood sample applied to the DEP device



Publication data including kind & date

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JP6190629	B2	2017-08-30	JP6190629				
EP2260297	B1	2018-08-01	EP2260297				

Abstract

(EP2260297)

Devices and techniques are described that involve a combination of multidimensional electrokinetic, dielectrophoretic, electrophoretic and fluidic forces and effects for separating cells, nanovesicles, nanoparticulates and biomarkers (DNA, RNA, antibodies, proteins) in high conductance (**ionic**) strength biological samples and buffers. In disclosed embodiments, a combination of continuous and/or pulsed dielectrophoretic (DEP) forces, continuous and/or pulsed field DC electrophoretic forces, microelectrophoresis and controlled fluidics are utilized with arrays of electrodes. In particular, the use of chambered DEP devices and of a properly scaled relatively larger electrode array devices that combines fluid, electrophoretic and DEP forces enables both larger and/or clinically relevant volumes of blood, serum, plasma or other samples to be more directly, rapidly and efficiently analyzed. The invention enables the creation of "seamless" sample-to-answer diagnostic systems and devices. The devices and techniques described can also carry out the assisted self-assembly of molecules, polymers, nanocomponents and mesoscale entities into three dimensional higher order structures.

Inventors

HELLER MICHAEL

SULLIVAN BENJAMIN

KRISHNAN RAJARAM

CARSON DENNIS

ESENER SADIK

Latest standardized assignees - inventors removed

UNIVERSITY OF CALIFORNIA

Family 16/22 - FAMPAT - ©Questel

Title

(WO201191563)

Cluster and orebody

Images

揭露介观物质的本质，阐述簇体和矿体的结构特点和性质，提出簇体的制备技术和应用技术。具有特定化学性质的或者在化学变化中不可再分的最小物质结构颗粒，简称物粒。簇体的制备方法有物理方法、化学和物理化学方法等；物理方法有：①物理粉碎法；②物理气相沉积法；化学方法有：①化学气相沉积法；②水热合成法；③化学沉淀法；物理化学方法：①溶胶凝胶法；②微乳液和反相胶束法。簇体，即序体和非序体，具有量子波动效应；矿体，即晶体和非晶体，没有量子波动效应，这是它们之间的本质区别。不同类型簇体的物粒本体距离是不同的，导致其性能不相同。同一种簇体呈现某些不同的特异性能所需要的物粒本体距离也不同。

Publication data including kind & date

CN101792869	A	2010-08-04	CN101792869
WO2011091563	A1	2011-08-04	WO201191563



Abstract

(WO201191563)

The nature of mesoscopic materials is disclosed, the structural characteristics and properties of cluster and orebody are described, and preparation technology and application technology of cluster are proposed. Matter particles are the abbreviation of the smallest particles of matter structure which have specific chemical properties or which are indivisible in chemical change. Preparation methods of cluster comprise physical methods, chemical methods and physical chemistry methods, etc., wherein physical methods comprise: ?physical crushing method; ?physical vapor deposition; chemical methods comprise: ?chemical vapor deposition; ?hydrothermal synthesis; ?chemical precipitation method; and physical chemistry methods comprise: ?sol-gel method; ?microemulsion and reverse micelle method. Cluster, ordered body and non-ordered body, has the effect of quantum fluctuations, while orebody, crystal and amorphous, has no effect of quantum fluctuations, which is the essential difference between them. The body distance of matter particles for different types of cluster is different, thereby resulting in their different performances. The needed body distance of matter particles for the same type cluster showing some different special properties is also different.

Inventors

LIU WENXIANG

Family 17/22 - FAMPAT - ©Questel

Title

(EP2858630)

Nanotherapeutics for drug targeting

Images

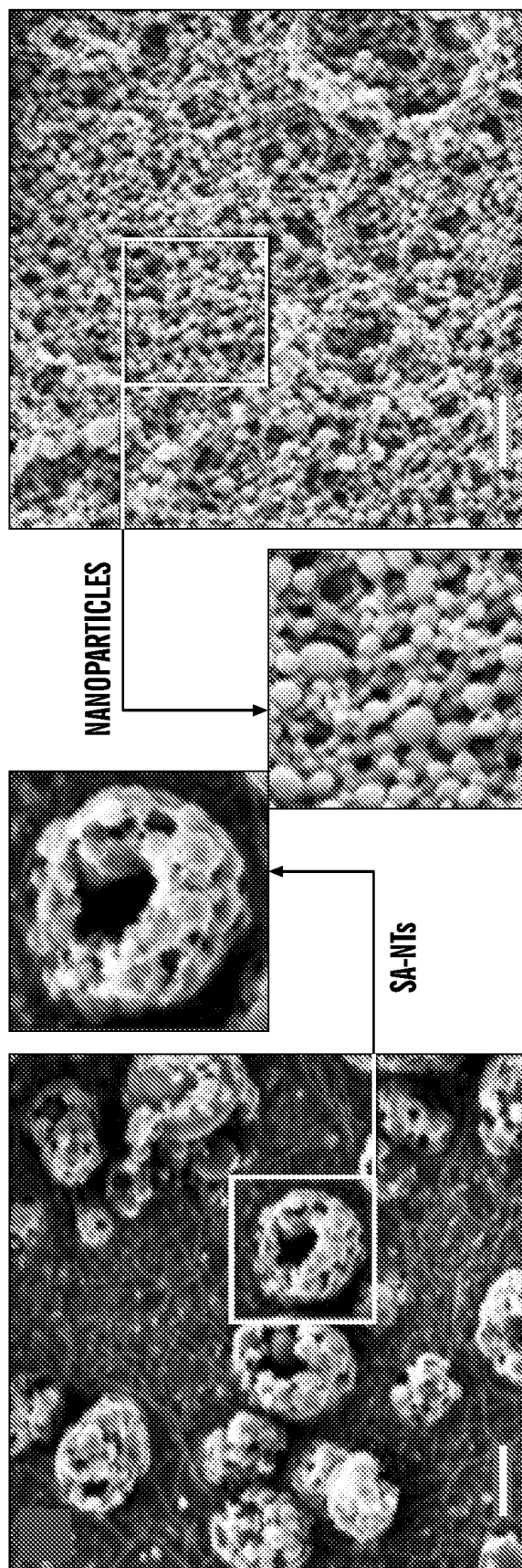


FIG. 1A

Publication data including kind & date

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EP2858630	A1	2015-04-15	EP2858630				
US20150147276	A1	2015-05-28	US20150147276				
CN104684546	A	2015-06-03	CN104684546				
JP2015520194	A	2015-07-16	JP2015520194				
EP2858630	A4	2016-02-24	EP2858630				
IN10447/DELNP/2014	A	2016-03-04	IN2014DN10447				
HK1209021	A1	2016-03-24	HK1209021				

Abstract

(EP2858630)

The invention provides compositions and methods for targeted controlled drug release. The compositions and methods can be used for treating or imaging vascular stenosis, stenotic lesions, occluded lumens, embolic phenomena, thrombotic disorders and internal hemorrhage.

Inventors

INGBER DONALD E
 KORIN NETANEL
 KANAPATHIPILLAI MATHUMAI
 UZUN OKTAY
 PAPA ANNE-LAURE

Latest standardized assignees - inventors removed

PRESIDENT & FELLOWS OF HARVARD COLLEGE

Family 18/22 - FAMPAT - ©Questel

Title

(EP2547371)

A method for promotion of hemostasis and/or wound healing

Images

Inventors

LARSEN KRISTIAN

Latest standardized assignees - inventors removed

FERROSAN

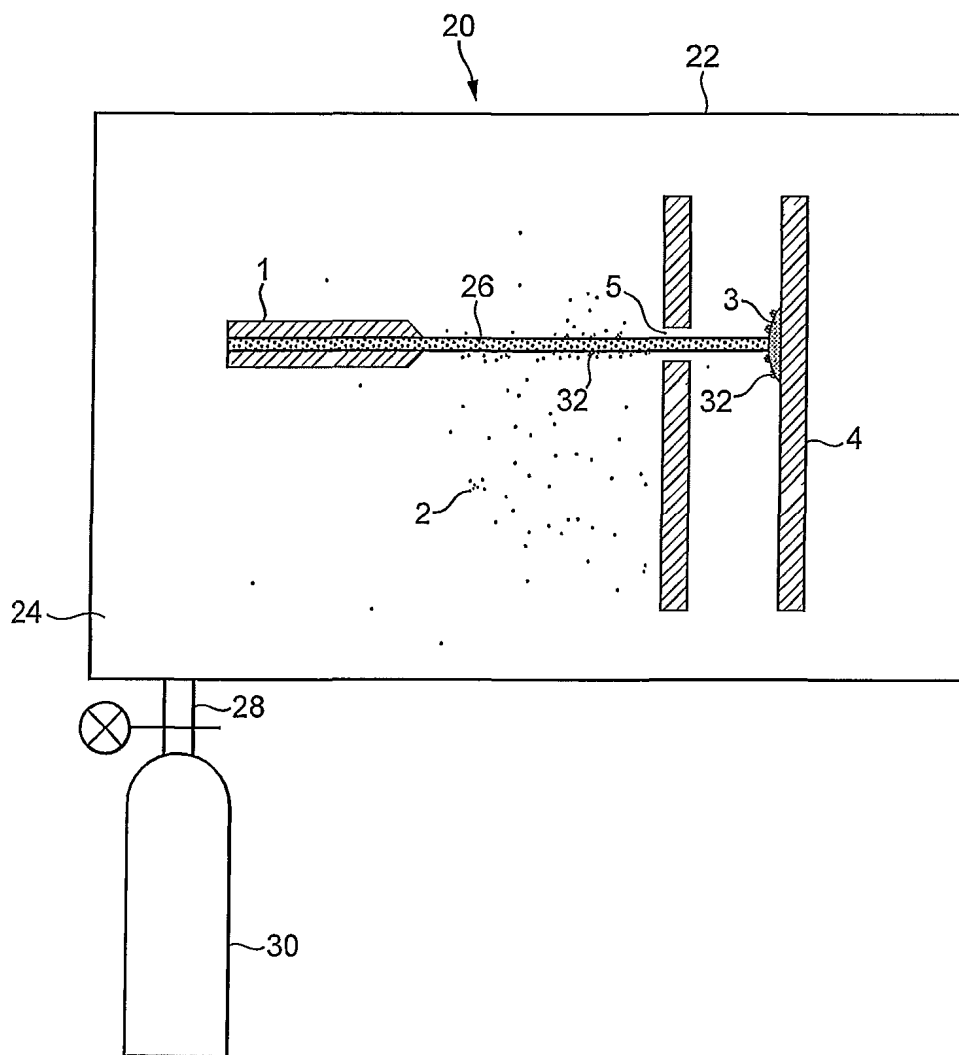
Family 19/22 - FAMPAT - ©Questel

Title

(EP2819777)

Chemical reaction by combination of gas - phase and wet -chemical methods

Images



Publication data including kind & date

GB201203430	D0	2012-04-11	GB201203430
WO2013128193	A1	2013-09-06	WO2013128193
KR20140129289	A	2014-11-06	KR20140129289
CN104271231	A	2015-01-07	CN104271231
EP2819777	A1	2015-01-07	EP2819777
US20150037260	A1	2015-02-05	US20150037260
JP2015515361	A	2015-05-28	JP2015515361



US9931607

B2 2018-04-03 US9931607

JP6335124

B2 2018-05-30 JP6335124

**Abstract**

(EP2819777)

The invention provides a new apparatus (20) and method for producing entirely new types of nanoparticles exhibiting novel properties. The apparatus comprises a vacuum chamber (22) containing a gas and feed means (1) for feeding a liquid jet (26) into the chamber and through the gas. The invention extends to the new types of nanoparticles per se, and to uses of such nanoparticles in various biomedical applications, such as in therapy and diagnosis, as well as in opto-electronics.

Inventors

VON HAEFTEN KLAUS

GALINIS GEDIMINAS

Latest standardized assignees - inventors removed

GALINIS GEDIMINAS

Family 20/22 - FAMPAT - ©Questel

Title

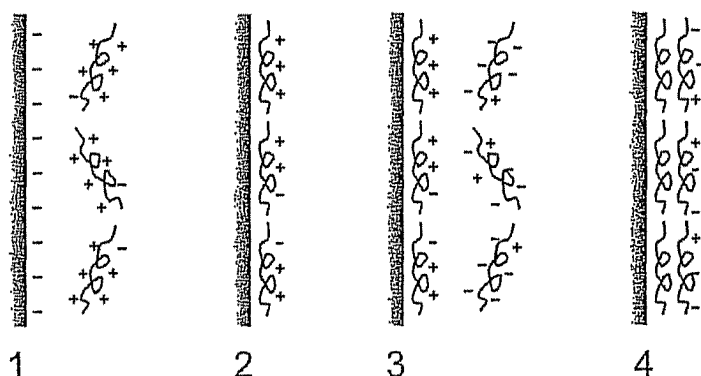
(EP2308900)

Immunogenic compositions and methods of use

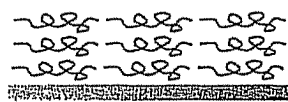
Images

Figure 1

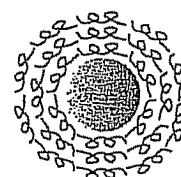
Layer-by-Layer Self-Assembly (LBL) of Multilayer Films



**Film Formed
on a Planar
Substrate
(Coating)**



**Film Formed on a
Spherical Template
(Capsule)**

**Publication data including kind & date**

WO2007050702

A2 2007-05-03 WO2007050702

WO2007050569

A2 2007-05-03 WO2007050569

CA2627376

A1 2007-05-03 CA2627376

AU2006306202

A1 2007-05-03 AU2006306202

WO2007050569

A3 2007-06-28 WO2007050569

WO2007050702

A3 2007-08-16 WO2007050702

US20080020402

A1 2008-01-24 US20080020402



WO2008030253	A2	2008-03-13	WO2008030253				
CA2632703	A1	2008-03-13	CA2632703				
AU2006347951	A1	2008-03-13	AU2006347951				
WO2008030253	A3	2008-05-29	WO2008030253				
IN3103/DELNP/2008	A	2008-06-27	IN2008DN03103				
EP1948696	A2	2008-07-30	EP1948696				
EP1948695	A2	2008-07-30	EP1948695				
IN3031/DELNP/2008	A	2008-08-08	IN2008DN03031				
CN101296945	A	2008-10-29	CN101296945				
IL190885	A	2008-11-03	IL-190885				
IL190863	A	2008-11-03	IL-190863				
MX2008005364	A	2008-11-20	MX2008005364				
CN101365724	A	2009-02-11	CN101365724				
JP2009513654	A	2009-04-02	JP2009513654				
JP2009513651	A	2009-04-02	JP2009513651				
US20100028423	A1	2010-02-04	US20100028423				
US20100028448	A1	2010-02-04	US20100028448				
US20100028424	A1	2010-02-04	US20100028424				
US20100028410	A1	2010-02-04	US20100028410				
US20100034875	A1	2010-02-11	US20100034875				
US7781399	B2	2010-08-24	US7781399				
US7786076	B2	2010-08-31	US7786076				
US7807634	B2	2010-10-05	US7807634				
US7807633	B2	2010-10-05	US7807633				
US7807632	B2	2010-10-05	US7807632				
EP2308900	A2	2011-04-13	EP2308900				
EP2308900	A3	2011-04-20	EP2308900				
IL190885	B	2011-09-27	IL-190885				
IL190863	B	2011-10-31	IL-190863				
AU2006306202	B2	2011-12-15	AU2006306202				
AU2006347951	B2	2011-12-22	AU2006347951				
EP1948695	B1	2012-12-19	EP1948695				
DK1948695	T3	2013-02-04	DK1948695T				
ES2400665	T3	2013-04-11	ES2400665				
CN103357007	A	2013-10-23	CN103357007				
EP2308900	B1	2014-02-12	EP2308900				
DK2308900	T3	2014-05-12	DK2308900T				
ES2462519	T3	2014-05-23	ES2462519				
JP5751741	B2	2015-07-22	JP5751741				
CA2627376	C	2016-07-05	CA2627376				
MX345029	B	2017-01-13	MX-345029				
IN283384	B	2017-05-19	IN-283384				
IN284952	B	2017-07-14	IN-284952				

Abstract

(EP2308900)

Disclosed herein are immunogenic compositions comprising a multilayer film comprising two or more layers of polyelectrolytes, wherein adjacent layers comprise oppositely charged polyelectrolytes. A first layer polyelectrolyte comprises an antigenic polypeptide comprising one or more surface adsorption regions covalently linked to one or more

antigenic determinant regions, wherein the antigenic polypeptide and the one or more surface adsorption regions have the same polarity. The immunogenic compositions may be employed in methods of eliciting an immune response in a vertebrate organism.

Inventors

HAYNIE DONALD TEMPLETON

Latest standardized assignees - inventors removed

ARTIFICIAL CELL TECHNOLOGIES

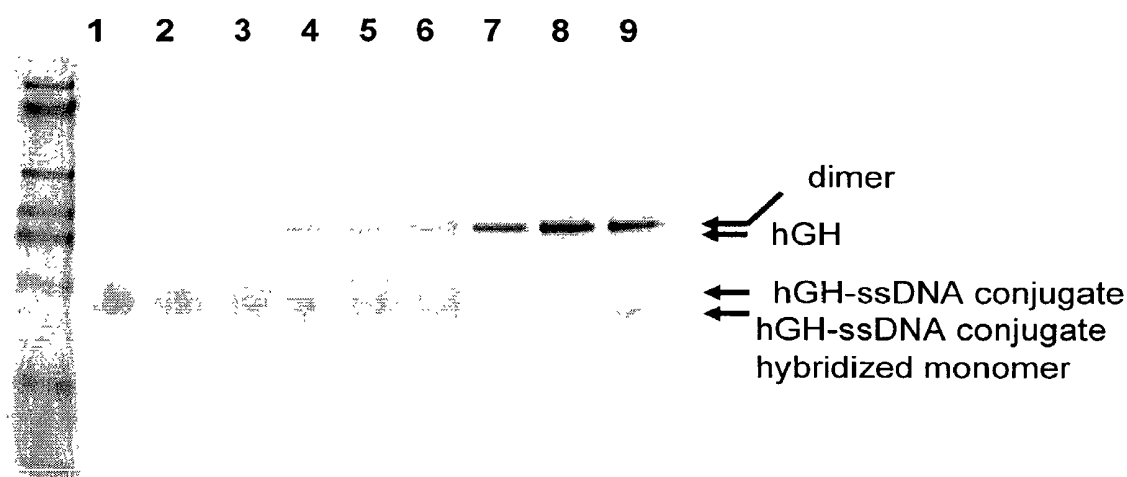
Family 21/22 - FAMPAT - ©Questel

Title

(EP2339014)

Methods and compositions comprising non-natural amino acids

Images



Publication data including kind & date

WO2007059312	A2	2007-05-24	WO200759312
CA2626522	A1	2007-05-24	CA2626522
AU2006315347	A1	2007-05-24	AU2006315347
WO2007059312	A3	2008-04-03	WO200759312
EP1951890	A2	2008-08-06	EP1951890
KR20080079643	A	2008-09-01	KR20080079643
IL190748	A	2008-11-03	IL-190748
US20090018029	A1	2009-01-15	US20090018029
JP2009520949	A	2009-05-28	JP2009520949
CN101454461	A	2009-06-10	CN101454461
EP1951890	A4	2009-06-24	EP1951890
EP2339014	A1	2011-06-29	EP2339014
IL190748	B	2013-05-30	IL-190748
IL225739	A	2013-06-27	IL-225739
EP2339014	B1	2015-05-27	EP2339014
DK2339014	T3	2015-07-20	DK2339014T
ES2547554	T3	2015-10-07	ES2547554
PT2339014	E	2015-10-13	PT2339014
IL225739	B	2017-10-31	IL-225739



Abstract

(EP2339014)

Disclosed herein are methods of detecting non-natural amino acids and polypeptides that include at least one non-natural amino acid. The non-natural amino acids, by themselves or as a part of a polypeptide, can include a wide range of functionalities, including but not limited to oxime, carbonyl, and/or hydroxy lamine groups. Also disclosed herein are non-natural amino acid polypeptides that are further modified post-translationally, and methods for detecting such polypeptides.

Inventors

MIAO ZHENWEI

TIAN FENG

HAYS PUTNAM ANNA-MARIA A

BUECHLER YING

Latest standardized assignees - inventors removed

AMBRX

Family 22/22 - FAMPAT - ©Questel

Title

(EP1444991)

Novel targeted compositions for diagnostic and therapeutic use

Images

$$SNOW = 10 \log \frac{[L(0)]^2}{\frac{1}{N} \sum_{i=1}^N SNOW_i} \quad (9)$$

Publication data including kind & date

WO9640457	A2	1996-12-19	WO9640457				
CA2194779	A1	1996-12-19	CA2194779				
WO9640285	A1	1996-12-19	WO9640285				
CA2218541	A1	1996-12-19	CA2218541				
AU6331196	A	1996-12-30	AU9663311				
AU6270396	A	1996-12-30	AU9662703				
NO970070	D0	1997-01-08	NO9700070				
WO9640457	A3	1997-02-20	WO9640457				
NO970070	A	1997-03-10	NO9700070				
TR199700096	T1	1997-05-21	TR199700096				
EP0773843	A1	1997-05-21	EP-773843				
PL318495	A1	1997-06-23	PL96318495				
KR19977004529	A	1997-09-06	KR19977004529				
VN0056	A	1997-09-25	VN-----56				
CN1163582	A	1997-10-29	CN1163582				
HU9700051	A2	1997-11-28	HU9700051				
EP0831932	A1	1998-04-01	EP-831932				
JPH10503715	A	1998-04-07	JP10503715				
CN1187137	A	1998-07-08	CN1187137				
BR9606395	A	1998-12-15	BR9606395				
BRPI9606395	A1	1998-12-15	BRPI9606395				
NZ311903	A	1999-01-28	NZ-311903				
JPH11507638	A	1999-07-06	JP11507638				

AU709562	B2	1999-09-02	AU-709562				
EP0831932	A4	2000-01-12	EP-831932				
HU9700051	A3	2000-01-28	HU9700051				
BRPI9606395	B1	2001-04-03	BR9606395				
CN1083280	C	2002-04-24	CN1083280C				
CN1397348	A	2003-02-19	CN1397348				
EP0831932	B1	2004-05-06	EP-831932				
AT265863	T	2004-05-15	ATE265863				
DE69632401	D1	2004-06-09	DE69632401				
EP1444991	A1	2004-08-11	EP1444991				
DE69632401	T2	2005-05-19	DE69632401				
JP4215820	B2	2009-01-28	JP4215820				

Abstract

(EP1444991)

Novel targeted compositions which may be used for diagnostic and therapeutic use. The compositions may comprise a lipid, a protein or a polymer and a gas, in combination with a targeting ligand. The targeting ligand targets tissues, cells or receptors, including myocardial cells, endothelial cells, epithelial cells, tumour cells and the glycoprotein GPIIb/IIIa receptor. The contrast media can be used in conjunction with diagnostic imaging, such as ultrasound, as well as therapeutic applications, such as therapeutic ultrasound.

Inventors

UNGER EVAN C

SHEN DEKANG

WU GUANLI

Latest standardized assignees - inventors removed

IMARX PHARMACEUTICAL