

Diego Gonzalez

Search history

Search 1: STAC=(microfluidic and blood and tempesature and control and substrat) (Results 0)

Search 2: STAC=(microfluidic and blood and temperature and control and substrat) (Results 11)

Title: ASSAYS

Abstract: A device comprising a rigid **substrate**, a flexible cover element at least partially covering the **substrate**, a first structure formed in the **substrate**, adapted for accommodating liquids and adapted for releasing contents of one or more cells, spores, or viruses, the contents including the target molecules, a second structure formed in the **substrate**, adapted for accommodating liquids and comprising at least one binding member adapted for capturing the target molecules and for determining a value indicative of the presence and/or amount of the target molecules, a micro fluidic network interconnecting at least the first structure and the second structure, and an actuator member adapted for effecting a fluid flow between the first structure and the second structure by pressing the flexible cover element against the **substrate** to selectively close a portion of the micro fluidic network.

Classifications:

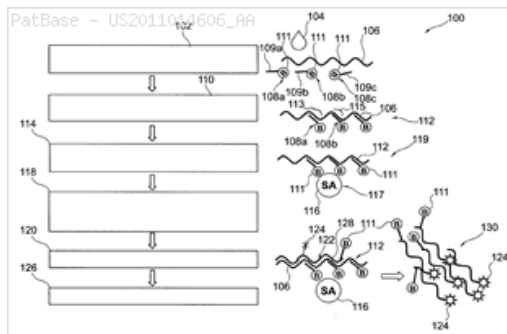
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International (IPC 1-7): B01J19/00

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US: 435/287.2 435/287.200S 435/5 435/6 435/6.1 435/6.11 435/6.110P 435/6.12 435/91.2 436/164 506/9 536/24.3 536/24.33

**Family:**

Publication number	Publication date	Application number	Application date
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Priority:

US20060856782P	20061106	US20070951364P	20070723	AU20070316672	20071106
EP20070822269	20071106	EP20130170036	20071106	CN200780041209	20071106
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Probable Assignee: CLONDIAG GMBH

Assignee(s): (std): CLONDIAG GMBH ; ERMANTRAUT EUGEN ; KAISER THOMAS ; SCHULZ TORSTEN ; STEINMETZER KATRIN ; ULLRICH THOMAS

Assignee(s): ALERE TECHNOLOGIES GMBH

Inventor(s): (std): ERMANTRAUT EUGEN ; EUGEN ERMANTRAUT ; KAISER THOMAS ; KATRIN STEINMETZER ; SCHULZ TORSTEN ; STEINMETZER KATRIN ; THOMAS KAISER ; TORSTEN SCHULZ ; ULLRICH THOMAS ; KAISER THOMAS DIPL ING

Inventor(s): THOMAS ULLRICH

Agent(s): HOULIHAN2; HOULIHAN² PTY LTD; HOULIHAN²; SIM AND MCBURNEY; AIRD AND BERLIS IP PARTNERSHIP LTD; AIRD AND MCBURNEY LP; HUENGES MARTIN; TSUBOKURA MICHIAKI; ONO MAKOTO; OSAKI KATSUMASA; KANAYAMA MASATAKA; KAWAGUTI AND PARTNERS; STEPTOE AND JOHNSON LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: INTEGRATED NUCLEIC ACID DIAGNOSTIC DEVICE

Abstract: The present invention provides a miniaturized integrated nucleic acid diagnostic device and system. The device of the invention is generally capable of performing one or more sample acquisition and preparation operations, in combination with one or more sample analysis operations. For example, the device can integrate several or all of the operations involved in sample acquisition and storage, sample preparation and sample analysis, within a single integrated unit. The device is useful in a variety of applications, and most notably, nucleic acid based diagnostic applications and de novo sequencing applications.

Classifications:

International (IPC 8-9): B01F11/00 B01F11/02 B01F13/00 B01F13/08 B01F15/02 B01L3/00 B01L7/00 C12M1/34 C12N1/00 C12N15/09 C12Q1/68 G01N35/00 G01N35/10 (Advanced/Invention); B01F13/08 B01F15/02 C12N15/09 G01N35/00 (Advanced/Non-invention); B01F11/00 B01F13/00 B01F15/02 B01L3/00 B01L7/00 C12N1/00 C12N15/09 (Core/Invention)

International (IPC 1-7): B01L1/00 B01L3/00 B81B1/00 C12M1/34 C12M1/40 C12N1/00 C12N1/08 C12N15/09 C12P19/34 C12Q1/68 G01N1/00 G01N1/10 G01N35/10

CPC: B01F13/0062 B01F13/0071 B01F13/0222 B01F13/0809 B01L7/525 B01L2200/0673 B01L2300/0645 B01L2300/0816 B01L2300/0861 B01L2300/1827 B01L2400/0655 Y10S366/03 B01L2300/069 B01L2400/0481 Y10T436/11 Y10T436/118339 Y10T436/25 Y10T436/25375 Y10T436/2575 B01F15/0201 B01F11/0071 B01F11/0266 B01F13/005 B01F13/0059 B01F13/08 B01F15/0238 B01F2215/0037 B01F2215/0073 B01L3/5027 B01L3/50273 B01L7/52 B01L9/527 B01L2200/0621 B01L2200/0684 B01L2200/10 B01L2300/087 B01L2300/0883 B01L2300/16 B01L2400/0415 B01L2400/0421 B01L2400/0487 B01L2400/049 B01L2400/084 B01L2400/086 G01N35/1095 G01N2035/00158 B01L3/502707 B01L3/502715 B01L3/502723 B01L3/502738 B01L3/502746 B01L3/502753 B01L3/502784

European: B01F11/00L B01F11/02H B01F13/00M B01F13/00M2A B01F13/00M4A B01F13/02D B01F13/08B B01F15/02B B01F15/02B40I B01L3/00C6M10 B01L3/00C6M2 B01L3/00C6M4 B01L3/00C6M6 B01L3/00C6M8 B01L3/5027 B01L3/5027A B01L3/5027B B01L3/5027C B01L3/5027D B01L3/5027E B01L3/5027F B01L3/5027G B01L3/5027J4 B01L7/00D B01L7/00D2 B01L7/52 B01L7/525 G01N35/10V L01F13/00L L01F13/08 L01F215/00A44 L01F215/00A88 L01L200/06D L01L200/06K L01L200/06M L01L200/10 L01L3/5027B L01L3/5027C L01L3/5027D L01L3/5027E L01L3/5027F L01L3/5027G L01L3/5027J4 L01L300/06B4 L01L300/06E L01L300/08B4 L01L300/08E L01L300/08E14 L01L300/08E6 L01L300/16 L01L300/18A8 L01L400/04F6 L01L400/04F6B L01L400/04M4 L01L400/04M8 L01L400/04M8V L01L400/06M8 L01L400/08P L01L400/08P2 L01L7/52 L01L9/527 S01N35/00C7D

US: 366/DIG.3 422/100 422/101 422/102 422/504 422/68.1 422/81 435/270 435/270S 435/286.5 435/287.2 435/287.200P 435/287.200S 435/287.9 435/287.900S 435/288.5 435/288.500 435/288.500S 435/288.6 435/288.600S 435/288.7 435/297.2 435/306.1 435/6 435/6.11 435/6.110P 435/6.110S 435/6.12 435/6.120P 435/6.19 435/6P 435/6S 435/91.2 436/174 436/177 436/180 436/180P 436/43 436/53 436/53S 95/46

PatBase - US2001036672_AA

Patent Application Publication Nov. 1, 2001 Sheet 1 of 26 US 2001/0036672 A1

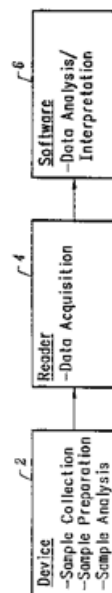


FIG. 1

Family:

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AT386590 E	20080315	AT19960000459T	19960627
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DE69637443 D1	20080403	DE19966037443	19960627
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US5856174 A	19990105	US19960589027	19960119
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US6197595 BA	20010306	US19990294700	19990419
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WO9702357 A1	19970123	WO1996US11147	19960627

Priority:

US19950000703P	19950629	US19950000859	19950703	US19950000859P	19950703
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WO1996US11147	19960627	US19970043490P	19970410	US19970992025	19971217
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US20050124575	20050506	US20060396958	20060404		

Probable Assignee: AFFYMETRIX INC

Assignee(s): (std): AFFYMETRIX INC ; ANDERSON ROLFE C ; LIPSHUTZ ROBERT J ; FODOR STEPHEN P A ; FODOR STEPHEN P ; AFFYMETRIX INC N D GES D STAAT ; RAVA RICHARD P

Assignee(s): AFFYMETRIX INC A DELAWARE CORP ; GENERAL ELECTRIC CAPITAL AGENT CORP AS ; GENERAL ELECTRIC CAPITAL AGENT AS CORP ; AFFYMETRIX INC NDGESDSTAATES DELAWARE ; BANK OF AMERICA NA ADMINISTRATIVE AGENT AS ; AFFYMETRIX INC N D GES D STAATES DELAWARE ; AFFYMETRIX INC A CALIFORNIA CORP ; AFFYMETRIX INC A CALIFORNIA CORPORATION ; AFFYMAX TECHNOLOGIES DE RUYDERKADE NV ; AFFYMAX TECHNOLOGIES NV

Inventor(s): (std): ANDERSON ROLFE C ; FODOR P ; FODOR STEPHEN P ; FODOR STEPHEN P A ; ANDERSON C ; LIPSHUTZ J ; RAVA RICHARD P ; RICHARD P RAVA ; ROBERT J LIPSHUTZ ; ROLFE C ANDERSON ; STEPHEN P A FODOR ; FODOR STEPHEN ; LIPSHUTZ ROBERT J ; RAVA P

Inventor(s): RAVA RICHARD ; LIPSHUTZ ROBERT ; ANDERSON ROLFE ; FODOR STEPHEN PA

Agent(s): UEXKUELL AND STOLBERG; CHIEF INTELLECTUAL PATENT COUNSEL AFFYMETRIX INC; AFFYMETRIX INC ATTN CHIEF IP COUNSEL LEGAL DEPT

Designated states: AL AM AT AU AZ BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GR HU IE IL IS IT JP KE KG KP KR KZ LI LK LR LS LT LU LV MC MD MG MK MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SZ TJ TM TR TT UA UG US UZ VN

Title: ASSAYS

Abstract: A device comprising a rigid **substrate**, a flexible cover element at least partially covering the **substrate**, a first structure formed in the **substrate**, adapted for accommodating liquids and adapted for releasing contents of one or more cells, spores, or viruses, the contents including the target molecules, a second structure formed in the **substrate**, adapted for accommodating liquids and comprising at least one binding member adapted for capturing the target molecules and for determining a value indicative for the presence and/or amount of the target molecules, a **microfluidic** network interconnecting at least the first structure and the second structure, and an actuator member adapted for effecting a fluid flow between the first structure and the second structure by pressing the flexible cover element against the **substrate** to selectively close a portion of the **microfluidic** network.

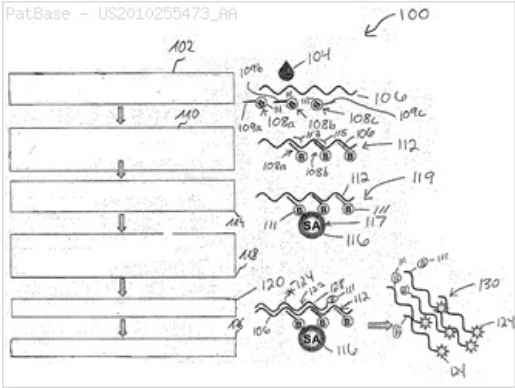
Classifications:

International (IPC 8-9): B01L3/00 C12M1/00 C12M1/34 C12M1/36 C12M1/38 C12N15/09 C12Q1/00 C12Q1/68 C12Q1/6844 C12Q1/6851 C12Q1/70 G01N1/44 G01N33/48 G01N33/49 G01N33/50 G01N33/53 G01N33/569 G01N37/00 (Advanced/Invention); C12N15/09 (Advanced/Non-invention); B01L3/00 (Core/Invention)

CPC: B01L3/502738 B01L3/5027 B01L2300/0816 B01L2300/0887 B01L2300/18 B01L2400/0415 B01L2400/0481 B01L2400/0655 C12Q1/6816 C12Q1/6848 C12Q1/703 C12Q1/708 C12Q2521/107 C12Q2531/113 C12Q2547/101 C12Q2563/107 C12Q2563/149 C12Q2565/601 C12Q2565/629 C12Q1/6825

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US: 435/6 435/6.11 435/6.110P 435/6P



Family:

Publication number	Publication date	Application number	Application date
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Priority:

US20070951358P	20070723	CA20082722242	20080723	EP20080786362	20080723
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Probable Assignee: CLONDIAG GMBH

Assignee(s): (std): CLONDIAG GMBH ; ERMANTRAUT EUGEN ; KAISER THOMAS ; SCHULZ TORSTEN ; STEINMETZER KATRIN ; ULLRICH THOMAS

Inventor(s): (std): ERMANTRAUT EUGEN ; EUGEN ERMANTRAUT ; KAISER THOMAS ; KATRIN STEINMETZER ; SCHULZ TORSTEN ; STEINMETZER KATRIN ; THOMAS KAISER ; THOMAS ULLRICH ; TORSTEN SCHULZ ; ULLRICH THOMAS ; KAISER THOMAS DIPL ING

Agent(s): HOULIHAN²; HOULIHAN² PTY LTD; SIM AND MCBURNEY; AIRD AND BERLIS IP PARTNERSHIP LTD; AIRD AND MCBURNEY LP; HUENGES MARTIN; OSAKI KATSUMASA; TSUBOKURA MICHIAKI; KAWAGUTI AND PARTNERS; STEPTOE AND JOHNSON LLP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: DEVICES AND METHODS FOR PHARMACOKINETIC-BASED CELL CULTURE SYSTEM

Abstract: Devices, in vitro cell cultures, systems, and methods are provided for microscale cell culture analogous (CCA) device.

Classifications:

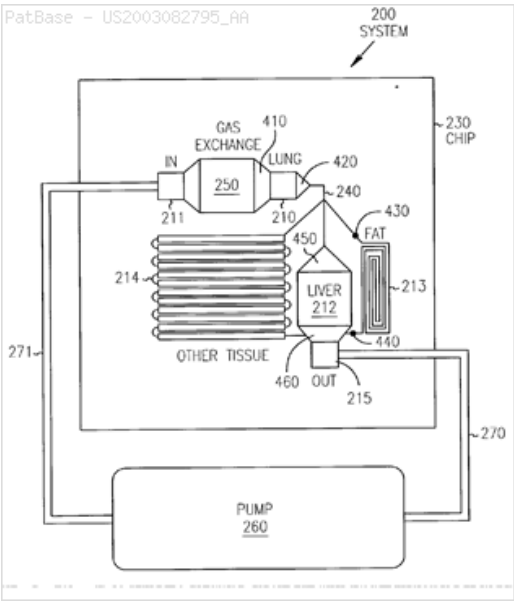
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International (IPC 1-7): C07K14/00 C12M1/00 C12M1/34 C12M1/36 C12M1/38 C12M3/00 C12P1/00 C12Q3/00 G01N33/48 G01N33/50

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European: C12M21/08 C12M23/16 C12M23/34 C12M23/44 C12M29/04 C12M41/48 L01L3/5027

US: 1/1 435/1.2 435/1.200P 435/284.1 435/284.100S 435/286.1 435/286.100P 435/286.100S 435/286.5 435/286.500P 435/287.1 435/287.100S 435/287.2 435/287.200P 435/287.200S 435/288.5 435/288.500P 435/288.500S 435/288.7 435/288.700P 435/289.1 435/289.100S 435/29 435/293.1 435/293.100P 435/293.100S 435/294.1 435/294.100S 435/297.4 435/297.400P 435/29P 435/29S 435/3 435/303.1 435/303.100S 435/32 435/325 435/325P 435/325S 435/32S 435/373 435/383 435/383S 435/395 435/395S 435/3P 435/4 435/4P 435/7.1 435/7.100P 700/266 700/266S 702/19 702/19S



Family:

Publication number	Publication date	Application number	Application date
AT364685 E	20070715	AT20020793757T	20020425
AU2002359234 AA	20030407	AU20020359234	20020425
AU2002359234 BB	20071115	AU20020359234	20020425
AU2007240203 AA	20080103	AU20070240203	20071210
CA2445458 AA	20031023	CA20022445458	20020425
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CA2607965 AA	20071108	CA20062607965	20060517
CN101223268 A	20080716	CN200680025975	20060517
DE60220671 D1	20070726	DE20026020671	20020425
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EP1392814 B1	20070613	EP20020793757	20020425
EP1820846 A1	20070822	EP20070007774	20020425
EP1891201 A2	20080227	EP20060813188	20060517
EP1891201 A4	20111109	EP20060813188	20060517
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JP2008539787 T2	20081120	JP20080512445T	20060517
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US2007015273 AA	20070118	US20060533318	20060919
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US2007020613 AA	20070125	US20060530381	20060908
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US2008166794 AA	20080710	US20070925677	20071026
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US2010304355 AA	20101202	US20060530400	20060908
US2012214189 AA	20120823	US20110301261	20111121
US2016281048 AA	20160929	US20160055385	20160226
US7288405 BB	20071030	US20020133977	20020425
US8030061 BB	20111004	US20060530381	20060908
US9273276 BB	20160301	US20110301261	20111121
US9732316 BB	20170815	US20160055385	20160226
WO03027223 A2	20030403	WO2002US13083	20020425
WO03027223 A3	20031218	WO2002US13083	20020425
WO07021343 A2	20070222	WO2006US18951	20060517
WO07021343 A3	20070621	WO2006US18951	20060517

Priority:

US20010286493P	20010425	AU20020359234	20020425	EP20020793757	20020425
US20020133977	20020425	WO2002US13083	20020425	US20050682131P	20050518
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US20070925687	20071026	AU20070240203	20071210	US20110301261	20111121
US20160055385	20160226				

Probable Assignee: CORNELL RESEARCH FOUNDATION INC

Assignee(s): (std): BAXTER GREGORY T ; CORNELL RES FOUNDATION INC ; CORNELL RESEARCH FOUNDATION INC ; CORNELL UNIV ; FREEDMAN ROBERT ; HARRISON ROBERT ANDREW ; HARRISON ANDREW ; MEYERS SCOTT ; SIN AARON ; SHULER MICHAEL ; HARRISON ROBERT A ; FREEDRUAN ROBERT ; HARRISON ROGERS A ; UNIV CORNELL

Assignee(s): NASA

Inventor(s): (std): SIN AARON ; SHULER MICHAEL ; SCOTT MEYERS ; ROBERT FREEDMAN ; MICHAEL SHULER ; MEYERS SCOTT ; HARRISON ROBERT ANDREW ; HARRISON ROBERT A ; HARRISON ROBERT ; HARRISON ANDREW ; FREEDRUAN ROBERT ; FREEDMAN ROBERT ; BAXTER GREGORY T ; BAXTER GREGORY ; ANDREW HARRISON ; AARON SIN ; HARRISON ROGERS A

Inventor(s): HARRISON ROGERS ANDREW ; ROBERT ANDREW HARRISON ; HARRISON ROGERS ; GREGORY T BAXTER

Agent(s): PHILLIPS ORMONDE FITZPATRICK; SIM AND MCBURNEY; OWEN DEBORAH JANE; WILSON SONSINI GOODRICH AND ROSATI; KNOBBE MARTENS OLSON AND BEAR LLP; LAW OFFICE OF SALVATORE ARRIGO AND SCOTT LEE LLP; ARRIGO LEE AND GUTTMAN LLP

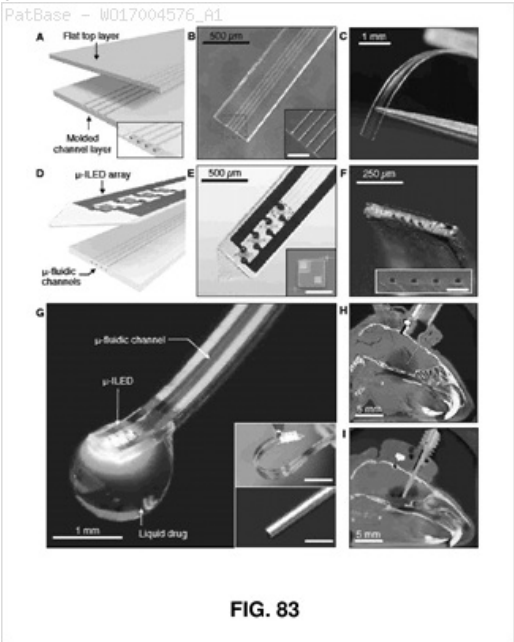
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Title: WIRELESS OPTOFLUIDIC SYSTEMS FOR PROGRAMMABLE IN VIVO PHARMACOLOGY AND OPTOGENETICS

Abstract: Provided are implantable, injectable and/ or surface mounted biomedical devices and related methods for interfacing with a target tissue. The devices have a **substrate**, one or more **microfluidic** channels embedded in or supported by the **substrate** and a fluid actuator in operational communication with one or more reservoirs and responsive to a wireless **control** signal. The components of the device are specially configured and packaged to be ultra-thin and mechanically compliant. In some embodiments, the devices are self-powered and fully implantable. The devices can be shaped to provide injection in a minimally invasive manner, thereby avoiding unnecessary tissue damage and providing a platform for long-term implantation for interfacing with biological tissue.

Classifications:

International (IPC 8-9): A61M5/142 (Advanced/Invention)
CPC: A61M5/14276 A61M2205/3327 A61M2205/3561 A61B5/0006 A61B5/0008 A61B5/0031 A61B5/0084 A61B5/01 A61B5/04001 A61B5/0478 A61B5/145 A61B5/14503 A61B5/4064 A61B5/4836 A61B5/6844 A61B5/685 A61B5/6868 A61B2560/0412 A61B2562/028 A61B2562/0285 A61B2562/12 A61B2562/164



Family:

Publication number	Publication date	Application number	Application date
WO17004576 A1	20170105	WO2016US40814	20160701

Priority:

US20150188318P 20150702

Probable Assignee: WASHINGTON UNIV IN ST LOUIS

Assignee(s): (std): BOARD OF TRUSTEES OF UNIV OF ILLINOIS ; UNIV ILLINOIS ; WASHINGTON UNIV IN ST LOUIS

Inventor(s): (std): BRUCHAS MICHAEL RAYMOND ; JEONG JAEWOONG ; MCCALL JORDAN GARY ; ROGERS JOHN A

Agent(s): MARSHALL SHIREEN R ET AL

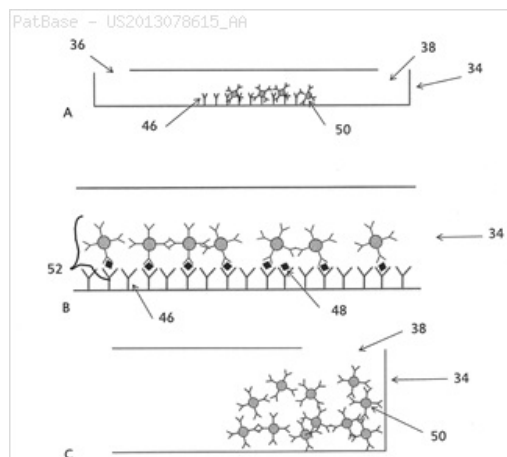
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Title: DEVICE AND METHOD FOR DETECTION AND QUANTIFICATION OF IMMUNOLOGICAL PROTEINS, PATHOGENIC AND MICROBIAL AGENTS AND CELLS

Abstract: The present invention provides a method and device for detecting and quantifying the concentration of magnetic-responsive micro-beads dispersed in a liquid sample. Also provided is a method and **microfluidic** immunoassay pScreen™ device for detecting and quantifying the concentration of an analyte in a sample medium by using antigen-specific antibody-coated magnetic-responsive micro-beads. The methods and devices of the present invention have broad applications for point-of-care diagnostics by allowing quantification of a large variety of analytes, such as proteins, protein fragments, antigens, antibodies, antibody fragments, peptides, RNA, RNA fragments, functionalized magnetic micro-beads specific to CD4+, CD8+cells, malaria-infected red **blood** cells, cancer cells, cancer biomarkers such as prostate specific antigen and other cancer biomarkers, viruses, bacteria, and other pathogenic agents, with the sensitivity, specificity and accuracy of bench-top laboratory-based assays.

Classifications:

International (IPC 8-9): C12Q1/70 G01F25/00 G01N27/74
G01N33/53 G01N33/543 G06F17/00 G06F19/10 (Advanced/Invention)
CPC: G06F17/00 G01N27/745 G01F25/0007 G01N33/54373
G06F19/00 G01N33/54326 Y02A50/58
US: 422/402 422/69 435/287.2 435/5 435/7.2 435/7.23 435/7.25
435/7.37 436/501 702/100 702/19 702/21



Family:

Publication number	Publication date	Application number	Application date
DE602012020304 D1	20160818	DE201260020304T	20120822
EP2751556 A2	20140709	EP20120836965	20120822
EP2751556 A4	20150527	EP20120836965	20120822
EP2751556 B1	20160706	EP20120836965	20120822
JP2014530355 T2	20141117	JP20140531827T	20120822
US2013078615 AA	20130328	US20120590859	20120821
US2013078620 AA	20130328	US20120684618	20121126
US2013224848 AA	20130829	US20130862899	20130415
US2014120633 AA	20140501	US20140148010	20140106
US2017370921 AA	20171228	US20170666918	20170802
US8445192 BB	20130521	US20120684618	20121126
US8623596 BB	20140107	US20130862899	20130415
US9753029 BB	20170905	US20140148010	20140106
WO13048644 A2	20130404	WO2012US51870	20120822
WO13048644 A3	20140515	WO2012US51870	20120822

Priority:

US20110539210P	20110926	US20120590859	20120821	EP20120836965	20120822
WO2012US51870	20120822	US20120684618	20121126	US20130862899	20130415
US20140148010	20140106	US20170666918	20170802		

Probable Assignee: CARNEGIE MELLON UNIV

Assignee(s): (std): ANTAKI JAMES F ; GANDINI ALBERTO ; UNIV CARNEGIE MELLON ; CHUAN BYRON WANG ; MARHEFKA JOIE N

Assignee(s): CARNEGIE MELLON UNIV ; CARNEGIE MELLON UNIV PITTSBURGH ; CARNEGIE MELLON UNIVERSITY

Inventor(s): (std): ANTAKI JAMES F ; CHUAN BYRON WANG ; GANDINI ALBERTO ; MARHEFKA JOIE N

Inventor(s): GANDINI ALBERTO PITTSBURGH ; ANTAKI JAMES F ALLISON PARK

Agent(s): GOWSHALL JONATHAN VALLANCE ; KITA AOYAMA INT PATENT BUREAU ; ACKER WOOD IP LAW LLC ; GWEN R ; ACKER WOOD GWEN R

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: HOLOGRAPHIC FLUCTUATION MICROSCOPY APPARATUS AND METHOD FOR DETERMINING MOBILITY OF PARTICLE AND/OR CELL DISPERSIONS

Abstract: The present invention relates to an instrument and a measurement apparatus and methodology that yields a measurement and test methodology that characterizes a population of cells/particles or detects a sub-population of cells/particles based on their detected mobility in a quick and efficient manner.

Classifications:

International (IPC 8-9): C12M1/00 C12Q1/00 C12Q1/02 C40B30/04

C40B30/06 G01N15/02 G01N15/14 G01N21/17 G01N21/27
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G01N37/00 G06F19/10 (Advanced/Invention);

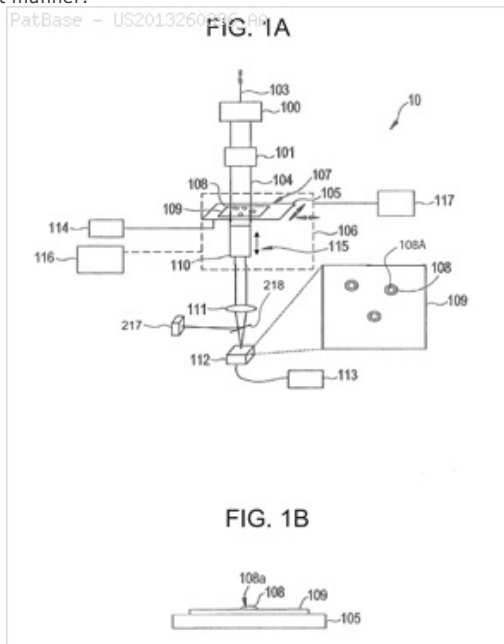
G01N21/45 (Advanced/Non-invention)

CPC: G01N15/0211 G01N15/1463 G01N21/453 G01N33/5029
G01N33/54313 G01N2015/0216 G01N2015/1497 G01N33/80
C40B30/04 G01N33/53 G06F19/10

European: G01N15/02B2 G01N15/14G3 G01N33/50D2E6

G01N33/543D S01N15/02B2B S01N15/14Y S01N21/45B

US: 1/1 435/287.2 435/34 435/7.25 506/9 702/21



Family:

Publication number	Publication date	Application number	Application date
■ CN103025859 A	20130403	CN201180036532	20110525
■ CN103025886 A	20130403	CN201180036514	20110525
■ EP2576759 A2	20130410	EP20110787019	20110525
■ EP2576759 A4	20140122	EP20110787019	20110525
■ EP2576805 A1	20130410	EP20110787018	20110525
■ JP2013531787 T2	20130808	JP20130512598T	20110525
■ JP2013533469 T2	20130822	JP20130512599T	20110525
■ US2013260396 AA	20131003	US20110699506	20110525
■ US2013274119 AA	20131017	US20110699519	20110525
■ US9176152 BB	20151103	US20110699519	20110525
■ WO11149525 A1	20111201	WO2011US00929	20110525
■ WO11149526 A2	20111201	WO2011US00930	20110525
■ WO11149526 A3	20120315	WO2011US00930	20110525

Priority:

US20100347946P 20100525 US20100348072P 20100525 WO2011US00929 20110525
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Probable Assignee: ARRYX INC

Assignee(s): (std): AKCAKIR OSMAN ; ARRYX INC ; FU HAOJUN ; KNUTSON CHRISTOPHER ; OSMAN AKCAKIR

Inventor(s): (std): KNUTSON CHRISTOPHER ; AKCAKIR OSMAN ; FU HAOJUN ; OSMAN AKCAKIR

Agent(s): TRANTER ANDREW DAVID; RYUKA IP LAW FIRM; JEAN C; EDWARDS NEILS PLLC; EDWARDS JEAN C

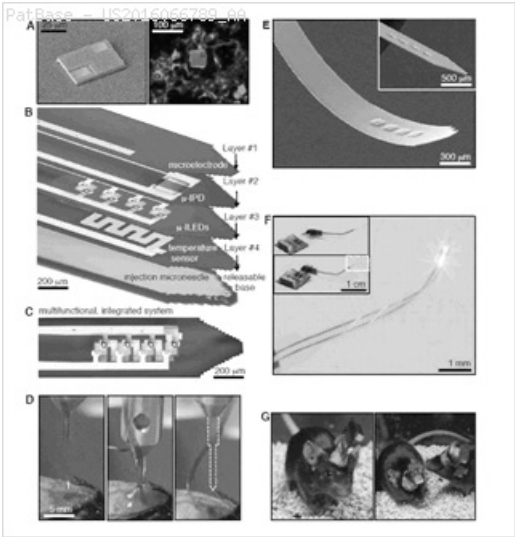
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MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST
SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: INJECTABLE AND IMPLANTABLE CELLULAR-SCALE ELECTRONIC DEVICES

Abstract: Provided are implantable or surface mounted biomedical devices and related methods for interfacing with a target tissue. The devices have a **substrate** and device component supported by the **substrate**. The components of the device are specially configured and packaged to be ultra-thin and mechanically compliant. In particular, device thicknesses are less than 1 mm and have lateral dimensions between about 1 micro m and 10 mm, depending on the application. Delivery **substrates** may be incorporated to assist with device implantation and handling. The devices can be shaped to provide injection in a minimally invasive manner, thereby avoiding unnecessary tissue damage and providing a platform for long-term implantation for interfacing with biological tissue.

Classifications:

International (IPC 8-9): A61B5/00 A61N1/05
A61N5/06 (Advanced/Invention)
CPC: A61B5/686 A61B2562/12 A61B5/0031 A61N5/062
A61M2037/0007 A61B5/685 A61B2017/00004 A61B2562/0285
A61B2562/06 A61M2037/0053 A61M2037/0061 A61M2205/04
A61N1/05 A61N2005/0612
US: 128/897 128/898 128/899 29/831 604/20



Family:

Publication number	Publication date	Application number	Application date
US2016066789 AA	20160310	US20140766926	20140211
WO14126927 A1	20140821	WO2014US15825	20140211

Priority:

US20130764410P 20130213 US20130785185P 20130314 US20130883524P 20130927
WO2014US15825 20140211 US20140766926 20140211

Probable Assignee: BOARD OF TRUSTEES OF UNIV OF ILLINOIS

Assignee(s): (std): BRENNER DANIEL ; BRUCHAS MICHAEL RAYMOND ; GEREAU ROBERT ; MCCALL JORDAN GARY ; ROGERS JOHN A ; SHIN GUNCHUL ; JEONG JAEWOONG ; KIM TAE IL ; UNIV ILLINOIS ; ROGERS JOHN ; UNIV ST LOUIS

Assignee(s): WASHINGTON UNIV IN STLOUIS ; WASHINGTON UNIV ; BOARD OF TRUSTEES OF UNIV OF ILLINOIS ; NATIONAL INSTITUTES OF HEALTH NIH US DEPT OF HEALTH AND HUMAN SERVICES DHHS US GOVERNMENT ; WASHINGTON UNIV IN ST LOUIS

Inventor(s): (std): BRENNER DANIEL ; BRUCHAS MICHAEL RAYMOND ; GEREAU ROBERT ; JEONG JAEWOONG ; KIM TAE IL ; MCCALL JORDAN GARY ; ROGERS JOHN A ; SHIN GUNCHUL

Agent(s): GIANOLA ADAM J ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: MICROFLUIDICS CARTRIDGE WITH PIPETTING GUIDE

Abstract: A disposable cartridge configured as a digital **microfluidics** system for manipulating samples in liquid portions having a cartridge accommodation site and a central **control** unit for **controlling** selection of individual electrodes of an electrode array located at the site and for providing plural electrodes with individual voltage pulses for manipulating liquid portions by electrowetting. The cartridge has a hydrophobic working surface and a rigid cover with a second hydrophobic surface, the hydrophobic surfaces facing each other and being separated in parallel planes by a gap. The cartridge has plural pipetting guides for safe entering/withdrawing liquids into/from the gap with a pipette tip. At least one of the pipetting guides provides an abutting surface sealingly admissible by a counter surface of a pipette tip, located at a pipetting orifice that reaches through the rigid cover, and configured to prevent a pipette tip from touching the hydrophobic working surface.

Classifications:

International (IPC 8-9): B01L3/00 B01L3/02 B81B1/00 G01N1/10
G01N27/447 G01N27/453 G01N37/00 (Advanced/Invention)

CPC: B01J 3/502792 B01J 3/50273 B01J 2300/161 B01J 2400/0427

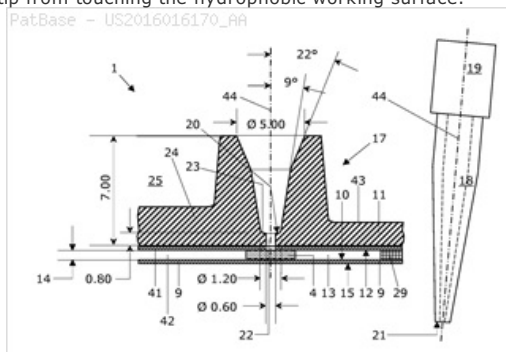
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B01L3/0275 B01L2200/027 B01L2300/0816 B01L3/502715

B01L2300/165 B01L2300/041 B01L2300/046 G01N2001/1056

B01L2400/0478 B01L3/502707 B01L3/563 B01L2200/028

B01L2200/0689 B01L2300/047 B01L2300/0645 B01L2300/123

US: 204/451 204/453 204/601 73/864



Family:

Publication number	Publication date	Application number	Application date
■ CN107107059 A	20170829	CN201580047096	20150715
■ CN108290155 A	20180717	CN201680067338	20160210
■ EP3169437 A1	20170524	EP20150821481	20150715
■ EP3169437 A4	20180124	EP20150821481	20150715
■ JP2017523412 T2	20170817	JP20170503953T	20150715
■ US2016016170 AA	20160121	US20140335027	20140718
■ US2016082437 AA	20160324	US20150943520	20151117
■ WO16011134 A1	20160121	WO2015US40534	20150715
■ WO17084766 A1	20170526	WO2016EP52860	20160210

Priority:

US20140335027 20140718 WO2015US40534 20150715 US20150943520 20151117
WQ2016EP52860 20160210

Probable Assignee: TECAN TRADING AG

Assignee(s): (std): HOFFMEYER DANIEL : KOPF SILL ANNE R : LAY TIFFANY : PERBROUD THOMAS : TECAN TRADING AG

Inventor(s): (std): HOFFMEYER DANIEL ; KOPF SILL ANNE ; KOPF SILL ANNE R ; LAY TIFFANY ; PERROUD THOMAS ; SAGER ADRIAN

Agent(s): OK PAT AG; YAMADA TAKUJI; TANAKA MITSUO; NAKANO HARUO; MICHALOS PETER C; MUELLER THEODOR

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UB US UZ VC VN ZA ZM ZW

Title: MULTI-RESERVOIR PUMP DEVICE FOR DIALYSIS, BIOSENSING, OR DELIVERY OF SUBSTANCES

Abstract: A pump patch device is provided for drug delivery. The device may include a **substrate** having a plurality of discrete reservoirs, each reservoir having a reservoir opening; a drug disposed in the reservoirs; a pump for delivering a carrier fluid through or adjacent to the reservoir openings; a flow channel for receiving and combining the carrier fluid from the pump with the drug from the reservoirs to form a fluidized drug; and a needle for delivering the fluidized drug into the skin or another biological tissue of a patient. A device is provided for use in dialysis that includes a non-disposable module including a pump or pressure generator; and a disposable cassette operably connected to the pump or pressure generator and including a plurality of discrete reservoirs containing drug and sensors. A fluidics connection device is provided that includes a compression cold weld seal for a **microfluidic** via.

Classifications:

International (IPC 8-9): A61M31/00 A61M37/00

A61M5/14 (Advanced/Invention);

A61M31/00 A61M37/00 A61M5/14 (Core/Invention)

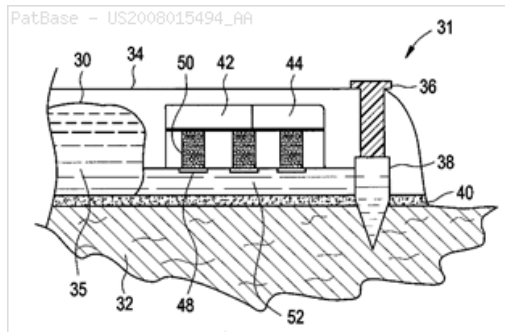
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K61M5/142A2 K61M5/142P6 K61M5/145B K61M5/145B2

US: 604/65 604/65P



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EP2043728 A2	20090408	EP20070812808	20070711
US2008015494 AA	20080117	US20070776351	20070711
WO08008845 A2	20080117	WO2007US73271	20070711
WO08008845 A3	20080410	WO2007US73271	20070711

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Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

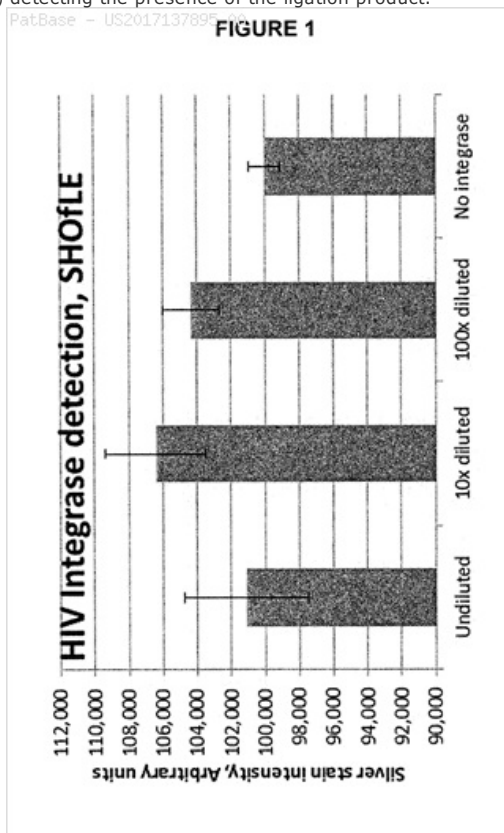
Title: METHODS OF IDENTIFYING ENZYMES AND MICROORGANISMS

Abstract: The invention provides a method of identifying a microorganism that expresses a nucleic acid-modifying enzyme, in sample, the method comprising: (a) contacting a nucleic acid **substrate** targeted by the nucleic acid-modifying enzyme with the sample; (b) adding a further nucleic acid molecule to the sample which nucleic acid molecule is ligated to the nucleic acid **substrate** in the presence of the nucleic acid-modifying enzyme to form a ligation product which comprises a linear single strand of nucleic acid that is capable of being detected; and (c) detecting the presence of the ligation product.

Classifications:

International (IPC 8-9): C12Q1/02 C12Q1/04 C12Q1/25 C12Q1/48 C12Q1/533 C12Q1/68 G01N33/573 (Advanced/Invention)

CPC: C12Q1/025 C12Q1/04 C12Q1/25 C12Q1/68 G01N2333/9015 G01N2800/26 C12Q1/6893 C12Q1/485 G01N2333/91245 C12Q1/533 C12Q1/689 G01N33/573 Y02A50/58



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EP3143157 A1	20170322	EP20150723908	20150515
GB201408745 A0	20140702	GB20140008745	20140516
US2017137895 AA	20170518	US20150311006	20150515
WO15173415 A1	20151119	WO2015EP60798	20150515

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