

1) Family number: 54590040 (US2015057948A)

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Title: ANALYSIS OF MEASUREMENTS OF A POLYMER
Priority: US20120599573P 20120216 US20130379242 20130218 WO2013GB50381 20130218
US20140379242 20140815 US20190245306 20190111

Family:	Publication number	Publication date	Application number	Application date
	AU2013220179 AA	20140904	AU20130220179	20130218
	AU2013220179 BB	20181108	AU20130220179	20130218
	BR112014020211 A2	20170704	BR20141120211	20130218
	CA2866587 AA	20140814	CA20132866587	20130218
	CN104321441 A	20150128	CN201380020403	20130218
	CN104321441 B	20161019	CN201380020403	20130218
	EP2814980 A1	20141224	EP20130706058	20130218
	IN06795DN2014 A	20150522	IN2014DN06795	20140813
	JP2015509710 T2	20150402	JP20140557122T	20130218
	JP6226888 B2	20171108	JP20140557122T	20130218
	KR20140125874 A	20141029	KR20147025898	20130218
	US2015057948 AA	20150226	US20130379242	20130218
	US2019154655 AA	20190523	US20190245306	20190111
	WO13121224 A1	20130822	WO2013GB50381	20130218

Probable Assignee: OXFORD NANOPORE TECHNOLOGIES LTD

Assignee(s):(std): OXFORD NANOPORE TECH LTD

Assignee(s): OXFORD NANOPORE TECHNOLOGIES LTD ; WHITE JAMES ; OXFORD NANOPORE TECHNOLOGIES LTD
EDMUND CARTWRIGHT HOUSE4 ROBERT ROBINSON AVENUEOXFORD SCIENCE
PARKOXFORDSHIRE OX4 4GAOXFORDGB ; REID STUART WILLIAM ; CLARKE JAMES ANTHONY ;
HARPER GAVIN

Inventor(s):(std): WHITE JAMES ; CLARKE JAMES ANTHONY ; REID STUART WILLIAM ; HARPER GAVIN ; REID STUART ;
STUART WILLIAM REID ; JAMES ANTHONY CLARKE ; JAMES WHITE ; GAVIN HARPER

Inventor(s): WHITE JAMESGB ; HARPER GAVINGB ; REID STUART WILLIAMGB ; CLARKE JAMES ANTHONYGB

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; OSLER HOSKIN AND HARCOURT LLP;
MERRYWEATHER COLIN HENRY; KOBAYASHI HIROSHI; OHMORI NORIO

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
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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

International class (IPC 8-9): B82Y15/00 C12M1/34 C12Q1/68 C12Q1/6809 C12Q1/6858 C12Q1/6869 G01N27/02 G01N27/416
G01N33/487 G01N33/68 G06F19/10 G06F19/22 (Advanced/Invention)

CPC: G01N33/48792 G01N27/02 G01N33/6803 G01N33/6875 B82Y15/00 C12Q1/6858 C12Q1/6869
G01N33/48721 G16B30/00

US class: 1/1 702/25

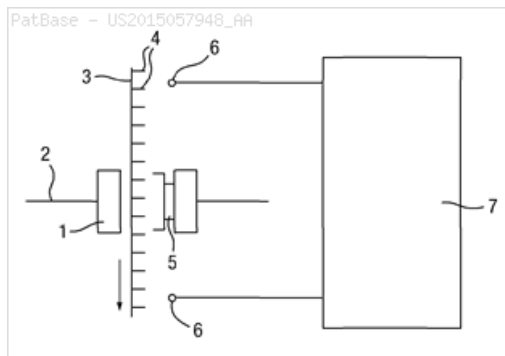
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A1, WO10004265 A1, WO09077734 A2, WO09035647 A1, WO08102121 A1, WO08102120 A1,
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JP2010539966 T2, JP2010539966 T2, JP2010539966, JP2010524436 T2, JP2010524436 T2,
JP2010524436, JP2002325581 A2, JP2002325581, JP11178575, JP11178575, GB201117574 A,

Forward Citations: WO20049293, WO19227013, WO19204720, WO19149626, WO18211241, WO18034745, WO17149318,
WO17149317, WO17149316, US9984147, US9927398, US10596523, US10549274, US10416117,
US10338056, US10302972, US10190158, US10131943, JP6457811, JP2019066484, JP2014531901,
EP3206794,

Abstract:

A time-ordered series of measurements of a polymer made during translocation of the polymer through a nanopore are analysed. The measurements are dependent on the identity of k-mers in the nanopore, a k-mer being k polymer units of the polymer, where k is a positive integer. The method involves deriving, from the series of measurements, a feature vector of time-ordered features representing characteristics of the measurements; and determining similarity between the derived feature vector and at least one other feature vector.



2) Family number: 12540122 (US5368712A)

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Title: BIOLOGICALLY MIMETIC SYNTHETIC ION CHANNEL TRANSDUCERS

Priority: US19890430814 19891102 US19900576222 19900831 US19940312821 19940927

Family:

Publication number	Publication date	Application number	Application date
US5368712 A	19941129	US19900576222	19900831
US5516890 A	19960514	US19940312821	19940927

Probable Assignee: KKJ INC

Assignee(s):(std): SYNPORIN TECH ; SYNPORIN TECHNOLOGIES INC

Assignee(s): SYNPORIN TECHNOLOGIES ; J INC KK ; KKJ INC

Inventor(s):(std): TOMICH JOHN ; MONTAL MAURICIO

International class (IPC 8-9): C07K14/00 C07K14/705 C12Q1/00 G01N33/543 (Advanced/Invention)

International class (IPC 1-7): A61K38/04 C07K5/00 C07K7/00 G01N27/327

CPC: Y10S435/817 Y10S436/806 G01N33/5438 C07K14/001 C07K14/705 C12Q1/002

European class: C07K14/00B C07K14/705 C12Q1/00B2 G01N33/543K2B M07K203/00

US class: 204/153.12 204/403 204/403.06 204/403.08 435/4 435/817 436/151 436/501 436/806 530/326 530/327 530/328 530/329 530/330 530/331

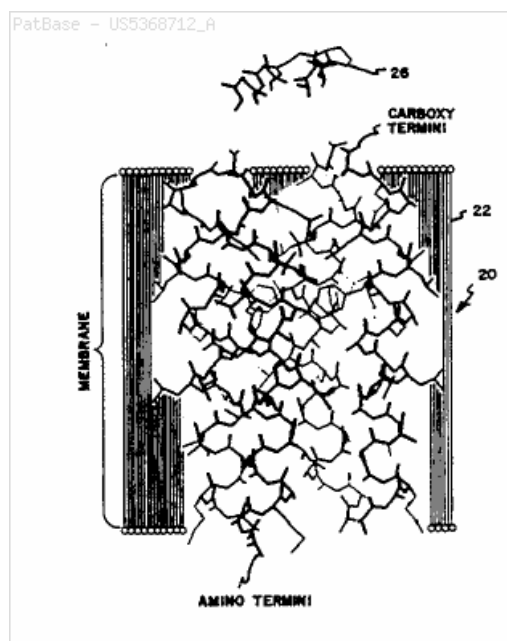
[Classification Explorer](#)

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Forward Citations: WO9947923, WO9947923, WO9823948, WO9741425, WO9741424, WO9729366, WO9726905, WO9725616, WO9636871, WO12042226, WO11123525, WO11067559, WO08094204, WO08094204, WO07084103, WO04079337, WO04079337, WO0159453, WO0159453, US9176127, US8906609, US8883967, US8759017, US8748105, US8742070, US8477313, US8449825, US8404449, US8325346, US8294007, US8283126, US8242077, US8163870, US8148172, US8107082, US8094315, US8004669, US7972993, US7889347, US7888046, US7858030, US7846389, US7829661, US7745856, US7745570, US7622934, US7569850, US7544978, US7432371, US7405052, US7169272, US7129208, US6936462, US6916665, US6824659, US6787368, US6750200, US6699719, US6641997, US6503452, US6478939, US6461490, US6451196, US6348319, US6258254, US6228326, US6214206, US6130037, US6077826, US5955379, US5858713, US5849869, US5736342, US5674977, US2011159599, US2011111985, US2011048939, US2010065822, US2009283422, US2009105449, US2009075394, US2008139407, US2008138839, US2008103064, US2008094076, US2007298494, US2007255249, US2006251709, US2006204428, US2006169975, US2006073518, US2005221282, US2005208574, US2005191616, US2004260085, US2004243093, US2004175761, US2004106741, US2004096895, US2003228605, US2003215881, US2003199688, US2003176641, US2003015422, US2002094526, US10576456, US10006902, EP2622343, EP2507387, EP1005644, EP0895592, CN103630571, CN103630571, AU706362,

Abstract:

The invention relates to synthetic proteins that can be used in in vitro sensing devices to detect the presence of physiologically active substances. The synthetic proteins are mimetic to native ion channels in mammalian systems. The invention also relates to a biosensor comprising a support assembly, a synthetic lipid bilayer containing the active channel protein. Lastly, the invention relates to the use of the biosensor disclosed in the application for the in vitro detection of physiologically active substances including antiseptics, antibiotics, neurotransmitters, and others.

**3) Family number: 30103266** (US2002006613A)

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Title: METHODS AND COMPOSITIONS FOR THE IDENTIFICATION AND ASSESSMENT OF CANCER THERAPIES

Priority: US19970037921P 19970212 US19970037921P 19970212 US19970064687P 19971105

US19980071940P	19980120	WO1998US03024	19980211	US19980079399P	19980326
US19980134411	19980813	US19980096666P	19980813	US19980096662P	19980813
US19980105968P	19981028	US19990233611P	19990119	US19990322864	19990528
US19990374415	19990813	US19990374554	19990813	US20010852968	20010510
US20010928668	20010813	US20110985905	20110106	US20120432959	20120328
US20130034407	20130923				

Family:

Publication number	Publication date	Application number	Application date
AT273381 E	20040815	AT19980906490T	19980211
AU199861703 A1	19980826	AU19980061703	19980211
AU762888 B2	20030710	AU19980061703	19980211
CA2281205 AA	19990811	CA19982281205	19980211
CN1251609 A	20000426	CN19988003852	19980211
DE69825601 D1	20040916	DE19986025601	19980211
DE69825601 T2	20050428	DE19986025601T	19980211
EP1009802 A2	20000621	EP19980906490	19980211
EP1009802 B1	20040811	EP19980906490	19980211
IL131332 A0	20010128	IL19980131332	19980211
IL131332 A1	20030731	IL19980131332	19980211
IL156002 A0	20031214	IL19980156002	19980211
JP2001514739 T2	20010911	JP19980535104T	19980211
JP3935509 B2	20070627	JP19980535104T	19980211
US2002006613 AA	20020117	US19990374554	19990813
US2002110818 AA	20020815	US20010928668	20010813
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US2011210272 AA	20110901	US20110985905	20110106
US2012217161 AA	20120830	US20120432959	20120328
US2014199209 AA	20140717	US20130034407	20130923
US6355420 BA	20020312	US19980134411	19980813
US6403311 BA	20020611	US19990374415	19990813
US8168380 BB	20120501	US20010852968	20010510
US9745625 BB	20170829	US20130034407	20130923
WO9835012 A2	19980813	WO1998US03024	19980211
WO9835012 A3	19990211	WO1998US03024	19980211

Probable Assignee: U S GENOMICS INC

Assignee(s):(std): CHAN EUGENE Y ; EUGENE Y CHAN ; LIFE TECH CORP ; LIFE TECHNOLOGIES CORP ; US GENOMICS INC ; US GENOMICS

Assignee(s): VAN HUFFEL CHRISTOPHE ; U S GENOMICS INC ; C2 BIOTECHNOLOGIES INC ; MILLENNIUM PHARMACEUTICAL INC ; SHYJAN ANDREW W ; SILICON VALLEY BANK

Inventor(s):(std): CHAN EUGENE Y ; SHYJAN ANDREW W ; VAN HUFFEL CHRISTOPHE ; EUGENE Y CHAN

Agent(s): PIZZEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; SMART AND BIGGAR; SELIGSOHN GABRIELI AND CO

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

International class (IPC 8-9): B01L3/00 C07H21/04 C12M1/34 C12N15/09 C12Q1/68 G01N21/03 G01N21/05 G01N21/64 G01N21/78 G01N27/447 G01N33/487 G01N33/50 G01N33/53 (Advanced/Invention); B01L3/00 C12N15/09 G01N21/03 G01N33/50 (Advanced/Non-invention); C12Q1/68 (Core/Invention); B01L3/00 (Core/Non-invention)

International class (IPC 1-7): C07H21/02 C07H21/04 C12M1/34 C12N15/09 C12Q1/68 G01N21/78 G01N33/50 G01N33/53

CPC: C12Q2600/106 C12Q2600/136 C12Q1/6886 Y10T436/143333 C12Q1/6869 B01J2219/00707 B01L3/5027 C12Q1/6809 G01N21/05 G01N21/6428 G01N33/48721 G01N2021/0346 G01N2021/6432 G01N2021/6439 G01N2021/6441 G01N2021/6482 Y10S435/97 Y10S435/973 C12Q2565/631

European class: C12Q1/68A6 C12Q1/68E C12Q1/68M6B G01N21/05 G01N21/64H G01N21/64P G01N21/64R G01N33/487B5 L01J219/00C6P4 L01L3/5027 S01N21/03K S01N21/64H4 S01N21/64H7 S01N21/64H7A S01N21/64P10

US class: 204/182.8 204/451 250/459.1 250/459.100P 422/82.08 435/149 435/287.1 435/287.2 435/375 435/5 435/6 435/6.1 435/6.12 435/6.120P 435/6.16 435/6.160P 435/6P 435/7.1 435/7.100S 435/71 435/94 435/970 435/973 436/94 536/23.1 536/23.100S 536/24.3 536/24.300S 546/33 548/416 549/382 935/77 935/78

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Cited documents: WOUS80302, WO9957321, WO9955857, WO9942611, WO9924583 A1, WO9919341, WO9915517, WO9910366, WO9905315 A2, WO9844152, WO9840496, WO9835012 A2, WO9831834, WO9830486 A1, WO9828440, WO9827440, WO9822615, WO9813523, WO9813520, WO9810097 A2, WO9739150, WO9739064, WO9707245, WO9700987, WO9636737, WO9630508 A1, WO9629593 A1, WO9627025, WO9506138, WO9323564, WO9321340, WO9113075, WO9106678, WO9104507, WO9101087, WO9013666, WO9011369, WO9007576, WO8909283, WO06055521, WO0125480, WO0060114 A2, WO0060072 A1, WO0009757 A1, WO0006587 A1, WO0004364, US7790391 BB, US7767805 BB, US7767400 BB, US7678894 BB, US7666593 BB, US7645596 BB, US7635562 BB, US7593109 BB, US7501245 BB, US7491498 BB, US7482120 BB, US7462449 BB, US7329496 BB, US7297518 BB, US7282337 BA, US7279563 BB, US7279337 BB, US7276720 BB, US7270951 BA, US7179906 BB, US7169560 BB, US7105300 BB, US7037687 BB, US7008766 BA, US6982146 BA, US6927065 BB, US6911345 BB, US6908736 BA, US6818395 BA, US6790671 BA, US6780591 BB, US6772070 BB, US6762059 BB, US6696022 BA, US6639088 BB, US6593148 BA, US6524829 BA, US6485944 BA, US6458758 BA, US6448065 BB, US6423551 BA, US6403707 BB, US6403311 BA, US6399334 BA, US6362002 BA, US6355420 BA, US6322901 BA, US6309836 BA, US6294136 BA, US6291164 BA, US6263286 BA, US6258568 BA, US6255475 BA, US6255083 BA, US6245506 BA, US6232075 BA, US6221392 BA, US6210896 BA, US6210891 BA, US6207421 BA, US6207229 BA, US6200748 BA, US6162931 A, US6143496 A, US6143151 A, US6141096 A, US6136543 A, US6130101 A, US6087095 A, US6086737 A, US6083695 A, US6054316 A, US6051719 A, US6048690 A, US6027890 A, US6027709 A, US6020481 A, US6015714 A, US6008379 A, US6004744 A, US6004446 A, US5976802 A, US5972603 A, US5961923 A, US5945312 A, US5932442 A, US5928869 A, US5922591 A, US5906723 A, US5888792 A, US5869255 A, US5866336 A, US5863727 A, US5858671 A, US5846727 A, US5843767 A, US5840701 A, US5833601 A, US5831070 A, US5830659 A, US5824781 A, US5817632 A, US5814524 A, US5807831 A, US5804561 A, US5800996 A, US5800995 A, US5795782 A, US5789167 A, US5776677 A, US5776674 A,

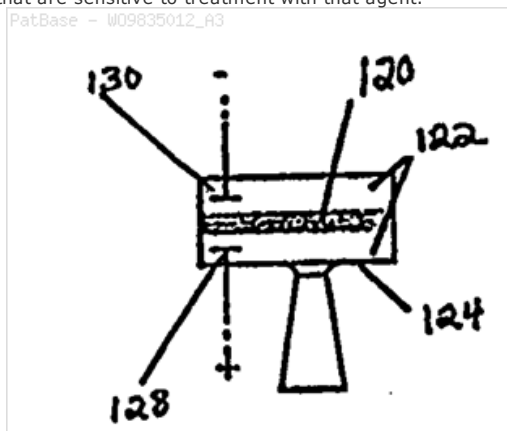
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Forward Citations:

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Abstract:

The present invention is directed to the identification of markers that can be used to determine whether cancer cells are sensitive or resistant to a therapeutic agent. The present invention is also directed to the identification of therapeutic targets. Nucleic acid arrays were used to determine the level of expression of approximately 6500 nucleic acid sequences (genes) found in 54 different solid tumor cancer cell lines selected from the NCI 60 cancer cell line series. After the level of expression was determined for each of the 6500 genes in each of the 54 cancer cell lines, statistical analysis was used to identify genes whose expression correlated with sensitivity or resistance to any one of 171 different anti-cancer compounds. Expression analysis was also used to identify genes associated with resistance or sensitivity to TAXOL in a number of cancer cell lines, clinical samples, and a human mammary epithelial cell primary cell line. The invention features a number of "sensitivity genes." These are genes that are expressed in most or all cell lines that are sensitive to treatment with an agent and which are not expressed (or are expressed at a rather low level) in cells that are resistant to treatment with that agent. The invention also features a number of "resistance genes." These are genes that are expressed in most or all cell lines that are resistant to treatment with an agent and which are not expressed (or are expressed at a rather low level) in cells that are sensitive to treatment with that agent.



4) Family number: 69325429 (US2018117587A)

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Title: CARTRIDGE ASSEMBLY

Priority: US20160408631P 20161014

NL20162017959 20161208

EP20170195974 20171011

Family:

Publication number	Publication date	Application number	Application date
AR109923 AA	20190206	AR2017P102835	20171011
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DK3308860 T3	20190506	DK20170195974T	20171011
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US2018117587 AA	20180503	US20170729729	20171011
US2019299210 AA	20191003	US20190443727	20190617
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WO18071467 A1	20180419	WO2017US56032	20171011
ZA201808105 A	20200226	ZA20180008105	20171011

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International class (IPC 8-9): B01L B01L3/00 C12M C12M3/00 F04B19/00 F16K99/00 G01N G01N21/00 G01N21/01 G01N21/05 G01N21/64 G01N21/75 G01N33/48 G01N35/00 G01N35/08 G01N37/00 (Advanced/Invention); B01L3/00 F04B19/00 F16K99/00 G01N21/00 (Core/Invention); B01L (Subclass/Invention)

International class (IPC 1-7): B01L3/00 C12M3/00 G01N33/48 G01N35/00

CPC: G01N35/08 G01N2035/00326 B01L3/502715 B01L3/50273 B01L3/502738 B01L2200/02 B01L2200/025 B01L2200/026 B01L2200/028 B01L2200/16 B01L2300/042 B01L2300/0609 B01L2300/0672 B01L2300/0829 B01L2400/0478 B01L2400/0644 F04B19/006 G01N21/01 G01N21/75 F16K99/0001 G01N21/00 F04B7/0046 F04B53/14 F04B53/144 B01L2200/027 B01L2300/1827 B01L2400/0683

US class: 1/1 435/287.2[Classification Explorer](#)

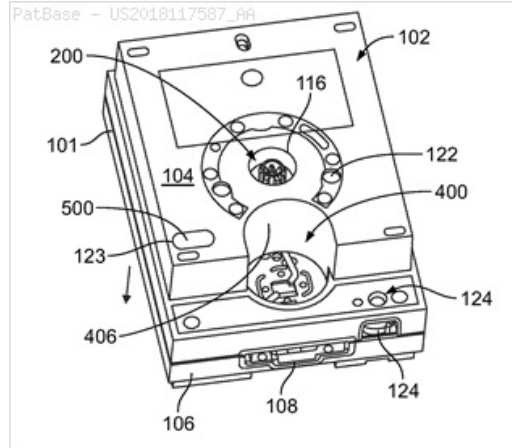
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Forward Citations: US2019107487, US10466173,

Abstract:

A **cartridge** assembly that comprises a housing, including a flow cell chamber to receive a flow cell, and a well plate having liquid wells to receive desired amounts of liquids. The well plate includes a valve station, a pump station and a fluidics analysis station, and channels associated therewith. A pump assembly to manage fluid flow through the channels between the pump station and the fluidics analysis station. A rotary valve assembly that includes a rotor shaft and rotor valve positioned to rotate about a rotational axis and to selectively couple the wells to the pump station. The rotor shaft includes a dual spline configuration at the distal end thereof. The dual spline configuration has first and second sets of splines. The first set of splines forms a drive interface and the second set of splines forms a position encoding interface.



5) Family number: 66393441 (US2013078624A)

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Title: SYSTEMS AND METHODS FOR MULTI-PURPOSE ANALYSIS

Priority: WO2011US53188 20110925 US20110244949 20110926

Family:	Publication number	Publication date	Application number	Application date
	US2013078624 AA	20130328	US20110244949	20110926
	US9632102 BB	20170425	US20110244949	20110926

Probable Assignee: THERANOS IP CO LLC

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Assignee(s): FORTRESS CREDIT CORP ; THERANOS IP CO LLC

Inventor(s):(std): BALWANI SUNNY ; HOLMES ELIZABETH

International class C12M1/34 C12Q1/00 C12Q1/02 C12Q1/28 C12Q1/68 G01N21/75 G01N27/26 G01N27/447 G01N30/02
(IPC 8-9): G01N33/48 G01N33/559 G01N33/566 G01N33/86 G01N35/00 G01N35/02 (Advanced/Invention)

CPC: G01N35/02 C12Q1/00 C12Q1/02 C12Q1/28 C12Q1/68 G01N30/02 G01N33/48 G01N33/559 G01N33/566
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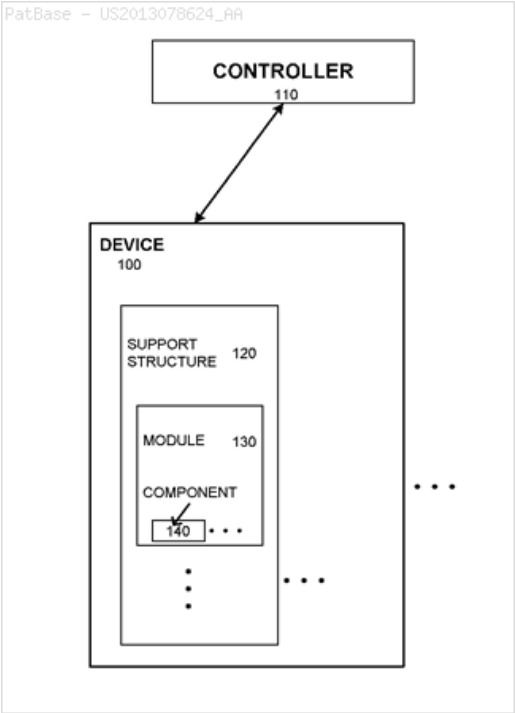
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Abstract:

Systems and methods are provided for sample processing. A device may be provided, capable of receiving the sample, and performing one or more of a sample preparation, sample assay, and detection step. The device may be capable of performing multiple assays. The device may comprise one or more modules that may be capable of performing one or more of a sample

preparation, sample assay, and detection step. The device may be capable of performing the steps using a small volume of sample.



6) Family number: 56436445 (US2014134616A) © PatBase

Title:	NUCLEIC ACID SEQUENCING USING TAGS			
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Probable Assignee:	GENIA TECHNOLOGIES INC			
Assignee(s):(std):	DORWART MICHAEL ; GENIA TECHNOLOGIES INC ; GENIA TECH INC ; KALACHIKOV SERGEY ; JU JINGYUE ; MOROZOVA IRINA ; TRUSTEES OF COLUMBIA UNIV IN CITY OF NEW YORK ; UNIV COLUMBIA ; ROCHE SEQUENCING SOLUTIONS INC			
Assignee(s):	NATIONAL INSTITUTES OF HEALTH NIH US DEPT OF HEALTH AND HUMAN SERVICES DHHS US GOVERNMENT ; BIBILLO ARKADIUSZ ; CHEN ROGER ; CHEN ROGER JA ; DAVIS RANDALL ; DAVIS RANDALL W ; GLENVIEW CAPITAL MASTER FUND LTD ; GLENVIEW CAPITAL OPPORTUNITY FUND LP ; GLENVIEW CAPITAL PARTNERS LP ; GLENVIEW INSTITUTIONAL PARTNERS LP ; GLENVIEW OFFSHORE OPPORTUNITY MASTER FUND LTD ; KORENBLUM DANIEL			
Inventor(s):(std):	KORENBLUM DANIEL ; BIBILLO ARKADIUSZ ; CHEN ROGER ; DAVIS RANDALL ; DORWART MICHAEL ; R CHEN ; DAVIS RANDALL W ; KALACHIKOV SERGEY ; JU JINGYUE ; MOROZOVA IRINA ; CHEN ROGER J A			
Inventor(s):	CHEN ROGER JA			
Agent(s):	SPRUSON AND FERGUSON; BORDEN LADNER GERVAIS LLP; TESCHEMACHER ANDREA; YAMAMOTO OSAMU; TAKEUCHI SHIGEO; ONO SHINJIRO; KOBAYASHI YASUSHI; VICTORIA L; ADAM K; FISHERBROYLES LLP; WHITE JOHN P; GERSHIK GARY J; COOPER AND DUNHAM LLP; ALEMOZAFAR ALI R 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 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 UG US UZ VC VN ZA ZM ZW			
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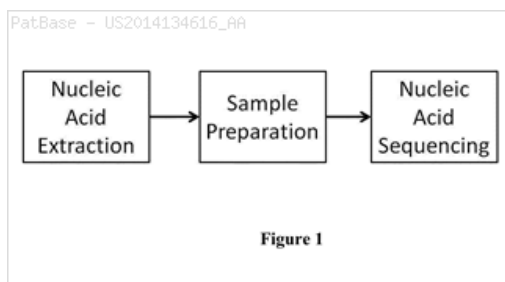
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Abstract:

This disclosure provides chips, systems and methods for sequencing a nucleic acid sample. Tagged nucleotides are provided into a reaction chamber comprising a nanopore in a membrane. An individual tagged nucleotide of the tagged nucleotides can contain a tag coupled to a nucleotide, which tag is detectable with the aid of the nanopore. Next, an individual tagged nucleotide of the tagged nucleotides can be incorporated into a growing strand complementary to a single stranded nucleic acid molecule derived from the nucleic acid sample. With the aid of the nanopore, a tag associated with the individual tagged nucleotide can be detected upon incorporation of the individual tagged nucleotide. The tag can be detected with the aid of the nanopore when the tag is released from the nucleotide.



Title:	SYSTEMS AND METHODS FOR MULTI-ANALYSIS																
Priority:	US20130766113P 20130218		US20130766119P 20130218		US20140183500 20140218												
Family:	<table><tr><th>Publication number</th><th>Publication date</th><th>Application number</th><th>Application date</th></tr><tr><td>US2014296089 AA</td><td>20141002</td><td>US20140183500</td><td>20140218</td></tr><tr><td>US9810704 BB</td><td>20171107</td><td>US20140183500</td><td>20140218</td></tr></table>					Publication number	Publication date	Application number	Application date	US2014296089 AA	20141002	US20140183500	20140218	US9810704 BB	20171107	US20140183500	20140218
Publication number	Publication date	Application number	Application date														
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US9810704 BB	20171107	US20140183500	20140218														
Probable Assignee:	THERANOS IP CO LLC																
Assignee(s):(std):	THERANOS INC																
Assignee(s):	THERANOS IP CO LLC ; FORTRESS CREDIT CORP																
Inventor(s):(std):	GANGAKHEDKAR SUREKHA ; LATH ADRIT ; FRENZEL GARY ; PANGARKAR CHINMAY ; GIBBONS IAN ; BALWANI SUNNY ; CHEN MICHAEL ; ANEKAL SAMARTHA ; FRANKOVICH JOHN K ; PATEL PAUL ; SMITH TIMOTHY ; LOO ALEXANDER ; HOLMES ELIZABETH A ; ROY JOY ; YOUNG DANIEL																
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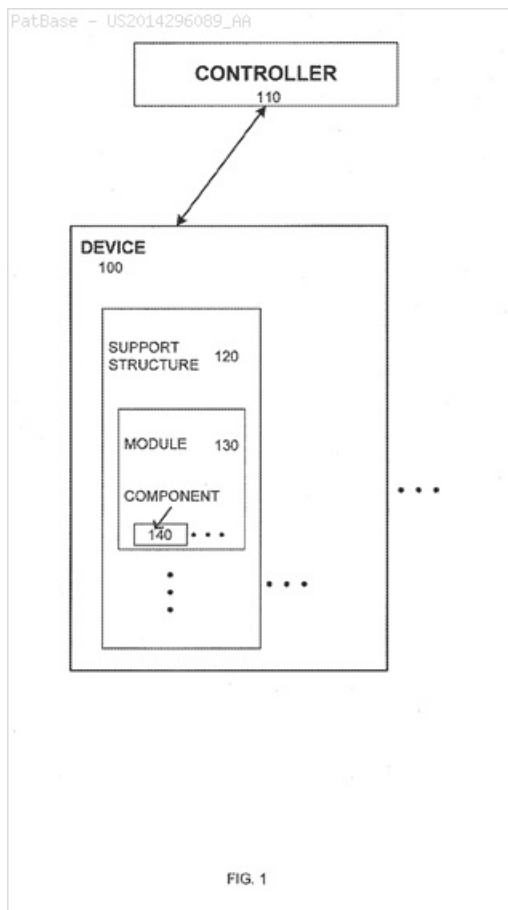
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EP0488761 B1, EP0410645 A2, CN1526074 A, CN103212491 A, CN102974474 A, CN101128738 A, CN101031362 A, CN101010579 A,

Forward Citations:

WO19068392, WO19007868, WO18090030, WO18065118, WO18065118, WO18065114, WO18031786, WO17003933, WO16203019, WO16060691, US9999882, US9975742, US9970922, US9957560, US9952240, US9916428, US9865104, US9839388, US9810704, US9796233, US9719990, US9677993, US9651519, US9645143, US9629568, US9619627, US9594072, US9588109, US9581588, US9529976, US9464981, US9460268, US9429524, US9302264, US9285366, US9250229, US9165472, US9127313, US2018101706, US2017268984, US2017258385, US2016375738, US2016123868, US2015072338, US2014288614, US2012322679, US10576474, US10570440, US10557863, US10557786, US10534009, US10525460, US10522245, US10518265, US10513725, US10506954, US10501767, US10478822, US10464059, US10451612, US10422738, US10391496, US10386330, US10376889, US10371710, US10346653, US10283217, US10272425, US10256580, US10232369, US10221450, US10080841, US10018643, US10006083, US09999882, TW1658267, EP3599455, EP3492923, EP3425369, EP3411815, CN107003223,

Abstract:

Systems and methods are provided for sample processing. A device may be provided, capable of receiving the sample, and performing one or more of a sample preparation, sample assay, and detection step. The device may be capable of performing multiple assays. The device may comprise one or more modules that may be capable of performing one or more of a sample preparation, sample assay, and detection step. The device may be capable of performing the steps using a small volume of sample.



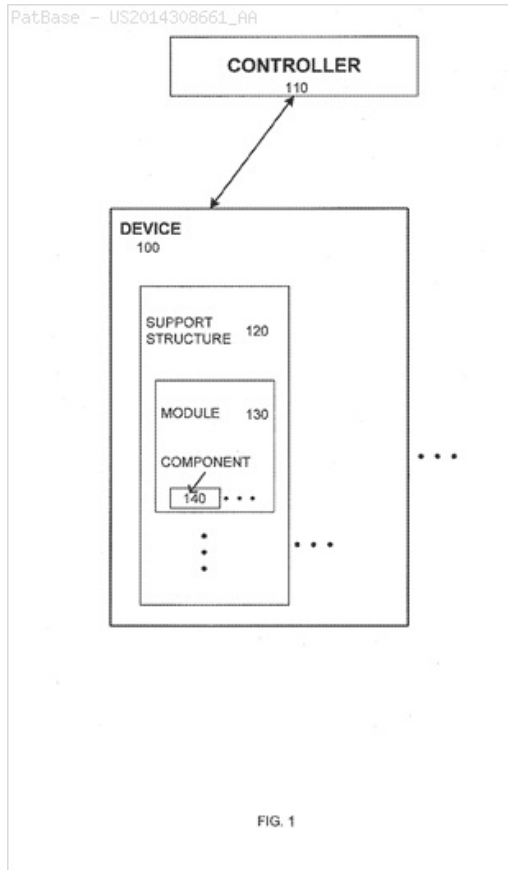
8) Family number: 66393458 (US2014308661A)

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Title:	SYSTEMS AND METHODS FOR MULTI-ANALYSIS			
Priority:	WO2011US53188 20110925	WO2011US53189 20110925	US20110244946 20110926	US20110244952 20110926
	US20110244947 20110926	US20110244949 20110926	US20110244952 20110926	US20110244956 20110926
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	US20110244954 20110926	WO2012US57155 20120925	US20130769779 20130218	US20130769779 20130218
	US20130769820 20130218	US20130766113P 20130218	US20130766119P 20130218	US20130766119P 20130218
	US20140183503 20140218			
Family:	Publication number	Publication date	Application number	Application date
	US2014308661 AA	20141016	US20140183503	20140218
Probable Assignee:	THERANOS INC			
Assignee(s):(std):	THERANOS INC			
Assignee(s):	THERANOS IP CO LLC ; FORTRESS CREDIT CORP			
Inventor(s):(std):	YOUNG DANIEL ; ROY JOY ; HOLMES ELIZABETH A ; LOO ALEXANDER ; SMITH TIMOTHY ; PATEL PAUL ; FRANKOVICH JOHN K ; ANEKAL SAMARTHA ; CHEN MICHAEL ; BALWANI SUNNY ; GIBBONS IAN ; PANGARKAR CHINMAY ; FRENZEL GARY ; LATH ADRIT ; GANGAKHEDKAR SUREKHA			
International class (IPC 8-9):	G01N21/64 (Advanced/Invention)			
CPC:	G01N21/6486 G01N35/0092 G01N21/25 G01N21/6428 G01N35/00 G01N35/00732 G01N2015/1006 G01N2035/00326 G01N2035/00495 G01N2035/00811 G01N2035/0094			
US class:	422/82.08 435/29 435/6.1			
Classification Explorer				
Cited documents:	US6197572 BA, US6030582 A, US5854684 A, US5779981 A, US2009088336 AA, US2005231723 AA,			
Forward Citations:	WO16090244, WO16065183, WO16007353, US9957560, US9952240, US9916428, US9794454, US9719990, US9677993, US9651519, US9645143, US9619627, US9588109, US9581588, US9556478, US9529976, US9464981, US9460268, US9328381, US9302264, US9285366, US9250229, US9243222, US9127313, US9102979, US8986614, US2015339252, US2015191690, US2015072338, US2013076898, US2012322679, US10570440, US10557863, US10557786, US10534009, US10522245, US10518265, US10501767, US10451615, US10391496, US10386330, US10379130, US10371710, US10348834, US10291415, US10283217, US10221450, US10080841, US10018643, EP3236268,			

Abstract:

Systems and methods are provided for sample processing. A device may be provided, capable of receiving the sample, and performing one or more of a sample preparation, sample assay, and detection step. The device may be capable of performing multiple assays. The device may comprise one or more modules that may be capable of performing one or more of a sample preparation, sample assay, and detection step. The device may be capable of performing the steps using a small volume of sample.



9) Family number: 47836495 (US2013217106A)

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Title:	BIOCHEMICAL ANALYSIS APPARATUS AND ROTARY VALVE			
Priority:	GB20100016606 20101001	GB20110009185 20110531	EP20110770853 20110930	
	WO2011GB01432 20110930	US20130876911 20130426	US20170419121 20170130	
Family:	Publication number	Publication date	Application number	Application date
	■ CN103370617 A	20131023	CN201180056404	20110930
	■ CN103370617 B	20151125	CN201180056404	20110930
	■ DE602011022850 D1	20160310	DE201160022850T	20110930
	■ EP2622343 A2	20130807	EP20110770853	20110930
	■ EP2622343 B1	20160120	EP20110770853	20110930
	■ GB201016606 A0	20101117	GB20100016606	20101001
	■ GB201109185 A0	20110713	GB20110009185	20110531
	■ IN00860KN2013 A	20130712	IN2013KN00860	20130326
	■ US2013217106 AA	20130822	US20110876911	20110930
	■ US2017327880 AA	20171116	US20170419121	20170130
	■ US9593370 BB	20170314	US20110876911	20110930
	■ US10036065 BB	20180731	US20170419121	20170130
	■ WO12042226 A2	20120405	WO2011GB01432	20110930
	■ WO12042226 A3	20120524	WO2011GB01432	20110930
Probable Assignee:	OXFORD NANOPORE TECHNOLOGIES LTD			
Assignee(s):(std):	JONES ANTHONY ; OXFORD NANOPORE TECH LTD ; OXFORD NANOPORE TECHNOLOGIES LTD			
Assignee(s):	OXFORD NANOPORE TECHNOLOGIES LIMITED			
Inventor(s):(std):	JONES ANTHONY			
Agent(s):	KRAUS AND WEISERT PATENTANWALTE PARTGMBB; COONEY DANIEL THOMAS; WOLF GREENFIELD AND SACKS PC; MERRYWEATHER COLIN H ET AL			
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 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			
International class (IPC 8-9):	B01L3/00 C12Q1/68 C12Q1/6869 F16K11/06 F16K11/085 G01N1/00 G01N1/26 G01N33/487 G01N33/53 (Advanced/Invention); B01L3/02 F16K11/074 G01N1/26 G01N30/00 G01N30/02 G01N30/60 G01N33/48 G01N33/92 (Advanced/Non-invention)			
CPC:	F16K11/085 G01N33/5306 F16K11/0743 G01N1/26 G01N33/92 B01L3/0293 B01L3/5027 B01L2300/0663 B01L2300/0829 B01L2400/0644 G01N30/6095 G01N33/48721 Y10T137/86871 C12Q1/6869			
European class:	B01L3/5027 G01N33/487B5 L01L3/02H2 L01L300/06B8 L01L300/08B12 L01L400/06M4 S01N30/60M			
US class:	1/1 137/625.47 422/68.1 435/287.2			
Classification Explorer				
Cited documents:	WO9905167 A1, WO9905167 A1, WO9835012 A2, WO9835012 A1, WO9720203 A1, WO9720203 A1, WO8903432 A1, WO8903432 A1, WO8101445 A1, WO19001445, WO12042226 A2, WO11067559 A1,			

WO11067559 A1, WO10083147 A1, WO09077734 A2, WO09077734 A2, WO09045472 A1, WO09045472, WO09044170 A1, WO09044170, WO09020682 A2, WO08111863 A1, WO08111863 A1, WO08102121 A1, WO08102121, WO08102120 A1, WO08102120, WO08042018 A2, WO08042018, WO08008974 A2, WO07141058 A1, WO07127327 A2, WO07127327, WO07102836 A1, WO07084163 A2, WO07084163, WO07057668 A1, WO07057668, WO07054233 A1, WO06028508 A2, WO06028508, WO05124888 A1, WO05124888, WO05061373 A1, WO05061373, WO05035437 A2, WO05035437, WO05017356 A1, WO05017025 A2, WO05017025, WO05005829 A1, WO05000739 A1, WO05000739, WO05000732 A1, WO05000732, WO04077503 A2, WO04077503, WO03095669 A1, WO03095669, WO03017020 A1, WO03003446 A2, WO03003446, WO03000920 A2, WO03000920, WO0159684 A2, WO0159684, WO0159453 A2, WO0159453, WO0079257 A1, WO0079257, WO0078668 A1, WO0078668, US9593370 BB, US9551338 BB, US9194504 BB, US8312805 BA, US8162006 BB, US8123756 BB, US7869508 P, US7868708 P, US7766028 BB, US7682356 BB, US7537437 BB, US7360556 BB, US7258838 BB, US7258838, US7189503 BB, US7189503, US7001792 BB, US7001792, US6927070 BA, US6927070, US6627067 BA, US6627067, US6565535 BB, US6537451 BA, US6426231 BA, US6426231, US6413792 BA, US6413792, US6355420 BA, US6355420, US6254057 BA, US6090081 A, US6067864 A, US6067864 A, US6015714 A, US6015714 A, US6004300 A, US5902276 A, US5800405 A, US5795782 A, US5795782 A, US5771935 A, US5529280 A, US5496009 A, US5368712 A, US5368712 A, US4962037 A, US4962037 A, US4712583 A, US3799411 A, US3422848 A, US3270771 A, US26548809 P, US2461211 A, US2015031020 AA, US2014377108 AA, US2014314594 AA, US2014238497 AA, US2013217106 AA, US2013203634 AA, US2012322679 AA, US2011108147 AA, US2010148126 AA, US2010113762 AA, US2010113762 AA, US2010070069 AA, US2010062446 AA, US2009311117 AA, US2009167288 AA, US2009167288 AA, US2009029477 AA, US2009029477 AA, US2009026350 AA, US2008032290 AA, US2008032290 AA, US2008003147 AA, US2007219508 AA, US2007202008 AA, US2007202008 AA, US2007163656 AA, US2007072169 AA, US2006210995 AA, US2006105461 AA, US2006069356 AA, US2005227239 AA, US2003116206 AA, US2003116206 AA, US2002007139 AA, US2001035516 AA, US17072909 P, JP6319801 A2, JP2003328420 A2, JP2003235974 A2, GB9001690, GB896056 A, GB840499 A, GB2474073 A1, GB2447043 A1, GB2443260 A1, GB2009001679, GB0812697, GB0812693, FR2947873 A1, EP2165723 A1, EP2163273 B1, EP1956367 A1, EP1956367, EP1946793 A1, EP1640168 A2, EP1544310 A2, EP1351183 A2, EP1197693 A2, EP1192453 A1, EP1192453, EP0934757 A2, EP0925798 B1, EP0247824 A2, EP0086073 A2, EP0086073 A2,

DE202007012680 U1

DE202004009831 U1

DE102009006203 A1

DE102006026220 B4

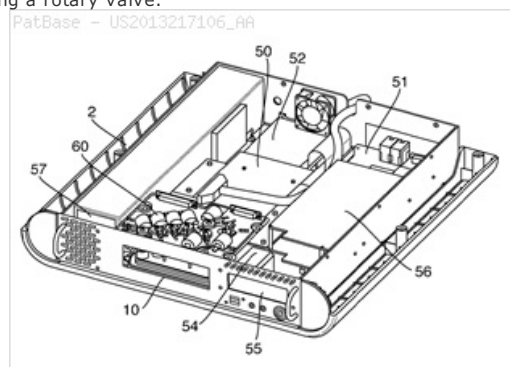
CN201152237 Y, CN201152237 A, CN1678398 A, CN101267885 A, CN101224320 A, CH344883 A,

Forward Citations:

WO19234432, WO19224517, WO19149626, WO19106345, WO18153377, WO18100370, WO18091494, WO18060740, WO18007819, WO15187868, WO14122467, WO14008381, WO14008381, WO13179066, WO13008010, US9970437, US9891182, US9885352, US9841416, US9777049, US9751915, US9650669, US9625404, US9593370, US9551338, US9533302, US9193996, US2013274148, US2013236374, US10549281, US10549274, US10514378, US10472673, US10443097, US10438662, US10428367, US10401353, US10400014, US10359395, US10342589, US10272436, US10266885, US10167503, US10077471, US10054234, US10036065, US10006905, TWI629076, JP6630566, JP2015523571, EP3223948, EP3151964, EP2953524, EP2870391, EP2870391, CN109844528, CN109310889, CN109310889, CN106573241, CN106133513, CN106133513, CN105115808, CN103278548,

Abstract:

An analysis apparatus for performing biochemical analysis of a sample using nanopores comprises: a sensor device that supports plural nanopores, reservoirs holding material for performing the analysis; a fluidics system; and plural containers for receiving respective samples, all arranged in a **cartridge** that is removably attachable to an electronics unit arranged to generate drive signals to perform signal processing circuit to generate output data representing the results of the analysis. The fluidics system supplies samples selectively from the containers to the sensor device using a rotary valve.



10) Family number: 53056495 (US2015344944A)

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Title: ANALYSIS OF A POLYNUCLEOTIDE VIA A NANOPORE SYSTEM
Priority: GB20120022928 20121219 WO2013GB53359 20131219 US20150653656 20150618
US20180162848 20181017

Family:	Publication number	Publication date	Application number	Application date
	EP2935623 A1	20151028	EP20130821710	20131219
	GB201222928 A0	20130130	GB20120022928	20121219
	US2015344944 AA	20151203	US20130653656	20131219
	US2019203286 AA	20190704	US20180162848	20181017
	US10131943 BB	20181120	US20130653656	20131219
	WO14096830 A1	20140626	WO2013GB53359	20131219

Probable Assignee: OXFORD NANOPORE TECHNOLOGIES LTD
Assignee(s):(std): OXFORD NANOPORE TECH LTD ; OXFORD NANOPORE TECHNOLOGIES LTD
Assignee(s): OXFORD NANOPORE TECHNOLOGIES LIMITED
Inventor(s):(std): HARPER GAVIN ; REID STUART WILLIAM

GB2494683 A1	20130320	GB20110016020	20110915
IN00511KN2014 A	20140502	IN2014KN00511	20140311
IN00523KN2014 A	20140509	IN2014KN00523	20140312
US2014314594 AA	20141023	US20120344137	20120911
US2014377108 AA	20141225	US20120344463	20120911
US2017321694 AA	20171109	US20160384167	20161219
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US9551338 BB	20170124	US20120344137	20120911
US10342589 BB	20190709	US20160384167	20161219
US10596322 BB	20200324	US20190410798	20190513
WO13038163 A2	20130321	WO2012GB52233	20120911
WO13038163 A3	20131227	WO2012GB52233	20120911
WO13038164 A2	20130321	WO2012GB52234	20120911
WO13038164 A3	20131227	WO2012GB52234	20120911

Probable Assignee: OXFORD NANOPORE TECHNOLOGIES LTD

Assignee(s):(std): JONES ANTHONY ; OXFORD NANOPORE TECH LTD ; OXFORD NANOPORE TECHNOLOGIES LTD ; UPSDELL JONATHAN

Assignee(s): OXFORD NANOPORE TECHNOLOGIES LIMITED

Inventor(s):(std): UPSDELL JONATHAN ; JONES ANTHONY

Inventor(s): ANTHONY JONES ; JONATHAN UPSDELL

Agent(s): COONEY DANIEL THOMAS; STANNERS DAVID RALPH; WOLF GREENFIELD AND SACKS PC

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 PA 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

International class (IPC 8-9): A61B17/88 A61M5/145 A61M5/31 A61M5/315 B29C70/68 F04B13/00 F04B17/03 F04B53/14 F04B7/06 F04B9/02 F16J15/16 G01N35/10 (Advanced/Invention); A61M5/145 B29L31/26 F04B17/03 F04B53/14 F04B9/02 (Advanced/Non-invention)

CPC: A61M5/315 F16J15/16 A61M5/1456 G01N35/1009 A61M5/145 A61M5/31513 F04B13/00 F04B53/143 F04B9/02 A61M5/31515 A61M2205/0222 A61M2207/00 B29L2031/26 B29L2031/7544 F16J15/3208 F16J15/328 A61B17/8822 A61M5/31528 A61M5/31586 F04B7/06 F04B17/03

US class: 1/1 264/250 277/402 417/415 417/437 417/500

[Classification Explorer](#)

Cited documents: WOWO2012042226, WOWO2011067559, WOWO2010083147, WOWO2008111863, WOWO2008008974, WOWO2007054233, WOWO2003017020, WOWO1981001445, WO9920327 A2, WO8101445 A1, WO12042226 A2, WO11067559 A1, WO10083147 A1, WO09077734 A2, WO09077734, WO09020682 A2, WO08111863 A1, WO08008974 A2, WO07141058 A1, WO07102836 A1, WO07054233 A1, WO07054233 A1, WO05017356 A1, WO05005829 A1, WO04005714 A1, WO03017020 A1, US9593370 BB, US9551338 BB, US9194504 BB, US8312805 BA, US8162006 BB, US8123756 BB, US7766028 BB, US7682356 BB, US7537437 BB, US7360556 BB, US7111848 BB, US6565535 BB, US6537451 BA, US6254057 BA, US6090081 A, US6067864 A, US6004300 A, US5902276 A, US5800405 A, US5771935 A, US5529280 A, US5496009 A, US4712583 A, US4435173 A, US3799411 A, US3422848 A, US3270771 A, US2857184 A, US2756748 A, US2461211 A, US2019032798 AA, US2017327880 AA, US2017321694 AA, US2015031020 AA, US2014377108 AA, US2014314594 AA, US2014238497 AA, US2013217106 AA, US2011108147 AA, US2010148126 AA, US2010113762 AA, US2010070069 AA, US2010062446 AA, US2009311117 AA, US2008221522 AA, US2008032290 AA, US2008003147 AA, US2007219508 AA, US2007202008 AA, US2007163656 AA, US2006105461 AA, US2006069356 AA, US2005227239 AA, US2003116206 AA, US2002007139 AA, US2001035516 AA, US1955157 A, US10342589 BB, US10054234 BB, US10054234 B2, US10036065 BB, US10036065 B2, JP6319801 A2, JP2009066599, JP2003328420 A2, JP2003235974 A2, JP06319801, GB896056 A, GB840499 A, GB840499 A, GB2474073 A1, GB2447043 A1, GB2443260 A1, FR2947873 A1, EP2165723 A1, EP2163273 B1, EP2163273 B1, EP2163273 A1, EP1946793 A1, EP1640168 A2, EP1197693 A2, EP0934757 A2, EP0925798 B1, EP0925798 B1, EP0925798 A2, EP0247824 A2, EP0086073 A2, EP0015144 A1, DE202007012680 U, DE202007012680, DE202004009831 U, DE202004009831,

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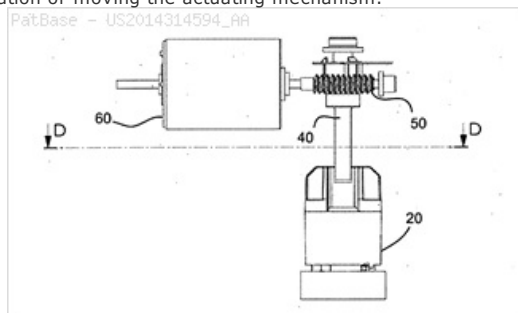
DE102006026220 A1

CN201152237 Y, CN201152237 A, CN101224320 A, CN101180091 A, CH344883 A, CH344883,

Forward Citations: WO18007448, US9551338, US2017321694, US10596322, US10438662, US10342589, US10054234, US10036065, CN109707589,

Abstract:

A pump for use in low-profile applications comprises a barrel for holding fluid; and a piston that converts a rotational driving force into a longitudinal driving motion within the barrel. The pump provides space saving advantages by reducing the need for external equipment and mechanisms around the pump for providing actuation or moving the actuating mechanism.



Title: SEQUENCE SCHEDULING AND SAMPLE DISTRIBUTION TECHNIQUES

Priority: US20120668686 20121105 US20150795285 20150709

Family:	Publication number	Publication date	Application number	Application date
	US2014127792 AA	20140508	US20120668686	20121105
	US2015309058 AA	20151029	US20150795285	20150709
	US9116139 BB	20150825	US20120668686	20121105
	US9989544 BB	20180605	US20150795285	20150709

Probable Assignee: ILLUMINA INC

Assignee(s):(std): ILLUMINA INC

Inventor(s):(std): DICKINSON ALEXANDER G ; SHEN MIN JUI RICHARD ; KAIN ROBERT C ; GARCIA FRANCISCO JOSE ; ELTOUKHY HELMY A

Agent(s): FLETCHER YODER PC

International class B01J19/00 G01N35/00 (Advanced/Invention)
(IPC 8-9):

CPC: G01N35/0092 B01J19/00 G01N35/00871

US class: 1/1 422/537 435/287.2 700/90

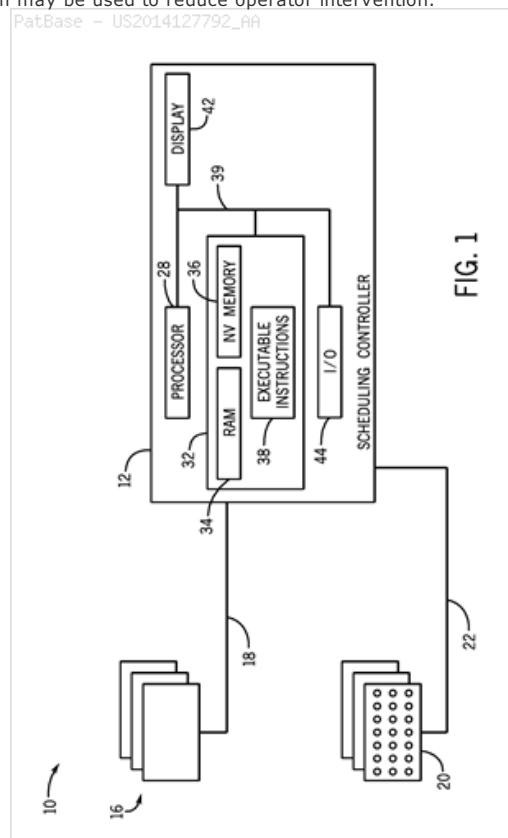
[Classification Explorer](#)

Cited documents: WO11067559 A1, WO07010251 A2, WO06064199 A1, WO05065814 A1, US8315817 BB, US8244479 BB, US7371346 BB, US7329860 BB, US7057026 BB, US7001792 BB, US6969488 BB, US6306597 BA, US6172218 BA, US6172218 B1, US5601141 A, US5282149 A, US2011246084 AA, US2010323350 AA, US2010282617 AA, US2010138162 AA, US2010137166 AA, US2010137143 AA, US2009155793 AA, US2009127589 AA, US2009026082 AA, US2008262172 AA, US2007243626 AA, US2007166705 AA, US2006281109 AA, US2006240439 AA, US2006188901 AA, US2005100900 AA,

Forward Citations: WO19027767, US9805407, US2014214579, US10217156, CN107076767, CN107076767,

Abstract:

A technique is disclosed for sample management for use in conjunction with sequencing devices that sequence biological samples, e.g., DNA and RNA. A sequencing device or a network of sequencing devices may be scheduled according to the characteristics of the samples in queue and the capabilities and availability of sequencing devices. Biological samples may be automatically queued and loaded via a sample distribution system. A sample distribution system may be used to reduce operator intervention.



Title: HIGH SPEED MOLECULAR SENSING WITH NANOPORES

Priority: US20130894577P 20131023 CN201480056841 20141023 US20140521469 20141023
WO2014US61852 20141023 US20190546202 20190820

Family:	Publication number	Publication date	Application number	Application date
	CA2926138 AA	20160331	CA20142926138	20141023
	CN105723222 A	20160629	CN201480056841	20141023
	CN105723222 B	20190122	CN201480056841	20141023
	CN109797199 A	20190524	CN201811586278	20141023
	EP3060918 A1	20160831	EP20140855081	20141023
	EP3060918 A4	20170607	EP20140855081	20141023

EP3060918 B1	20190918	EP20140855081	20141023
JP2017501678 T2	20170119	JP20160524571T	20141023
JP6461943 B2	20190130	JP20160524571T	20141023
US2015111779 AA	20150423	US20140521469	20141023
US2019367977 AA	20191205	US20190546202	20190820
US10421995 BB	20190924	US20140521469	20141023
WO15061509 A1	20150430	WO2014US61852	20141023

Probable Assignee: GENIA TECHNOLOGIES INC

Assignee(s):(std): GENIA TECH INC ; GENIA TECHNOLOGIES INC

Assignee(s): ROCHE SEQUENCING SOLUTIONS INC ; DAVIS RANDALL W

Inventor(s):(std): DAVIS RANDALL ; DAVIS RANDALL W

Agent(s): BORDEN LADNER GERVAISI LLP; TESCHEMACHER ANDREA; YAMAMOTO OSAMU; TAKEUCHI SHIGEO; ONO SHINJIRO; KOBAYASHI YASUSHI; FISHERBROYLES LLP; BREWSTER VICTORIA; PASS JASON M; BOYD VICTORIA L 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 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 UG US UZ VC VN ZA ZM ZW

International class (IPC 8-9): C07H21/02 C12M1/34 C12Q1/00 C12Q1/68 C12Q1/6816 C12Q1/6869 C40B20/00 C40B30/04 G01N27/00 G01N33/483 G01N33/53 G01N33/543 G01N33/566 (Advanced/Invention)

CPC: C12Q2561/125 C12Q2563/143 C12Q2565/631 C12Q2545/114 C12Q1/6816 C12Q1/6869

US class: 506/9

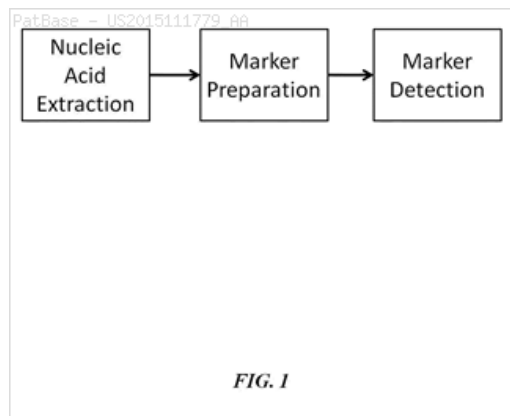
[Classification Explorer](#)

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Forward Citations: WO17050722, WO16059375, JP2017536103, EP3207157,

Abstract:

Described herein are methods and devices for capturing and determining the identity of molecules using nanopores. The molecules can be counted, sorted and/or binned rapidly in a parallel manner using a large number of nanopores (e.g., 132,000 nanopores reading 180 million molecules in 1 hour). This fast capture and reading of a molecule can be used to capture probe molecules or other molecules that have been generated to represent an original, hard to detect molecule or portions of an original molecule. Precise counting of sample molecules or surrogates for sample molecules can occur. The methods and devices described herein can, among other things, replace flow cytometers and other counting instruments (e.g., while providing increased precision and throughput relative to a flow cytometer). In some cases, the devices and methods capture and hold particular molecules or surrogates of molecules in the nanopores and then eject them into clean solution to perform a capture, sorting, and binning function similar to flow cytometers.



14) Family number: 54908581 (US2013260372A)

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Title: INTEGRATED OPTOELECTRONIC READ HEAD AND FLUIDIC CARTRIDGE USEFUL FOR NUCLEIC ACID SEQUENCING

Priority: US20120619784P 20120403 AU20130243998 20130213 US20130766413 20130213
 WO2013US25963 20130213 US20140335117 20140718 IN2014DN07992 20140925
 AU20160222420 20160831 US20170594413 20170512 AU20190200400 20190121

Family:	Publication number	Publication date	Application number	Application date
	AU2013243998 AA	20141009	AU20130243998	20130213
	AU2013243998 BB	20160728	AU20130243998	20130213
	AU2016222420 AA	20160922	AU20160222420	20160831
	AU2016222420 BB	20190103	AU20160222420	20160831
	AU2019200400 AA	20190207	AU20190200400	20190121
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	IL268205 A0	20190829	IL20130268205	20130213
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	KR20150000885 A	20150105	KR20147027974	20130213
	MX2014011165 A1	20150319	MX20140011165	20130213
	MX337140 B	20160212	MX20140011165	20130213
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	US2014329694 AA	20141106	US20140335117	20140718
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	US9650669 BB	20170516	US20140335117	20140718
	US10549281 BB	20200204	US20170594413	20170512
	WO13151622 A1	20131010	WO2013US25963	20130213

Probable Assignee: ILLUMINA INC

Assignee(s):(std): BUERMANN DALE ; CRANE BRYAN ; HAGE MATTHEW ; HARRIS JASON ; ILLUMINA INC ; HONG STANLEY S ; WANG MARK ; MOON JOHN A ; NIBBE MARK J

Assignee(s): ILLUMINA INC5200 ILLUMINA WAYSAN DIEGOCA92122US

Inventor(s):(std): MARK J NIBBE ; MARK WANG ; STANLEY S HONG ; MATTHEW HAGE ; JASON HARRIS ; DALE BUERMANN ; BRYAN CRANE ; HAGE MATTHEW HANS ; J A MOON ; BUERMANN DALE ; HONG STANLEY S ; HARRIS JASON ; HAGE MATTHEW ; MOON JOHN A ; WANG MARK ; CRANE BRYAN ; NIBBE MARK J

Inventor(s): STANLEY SHONG ; JAMOON ; CRANE BRYANUS ; NIBBE MARK JUS ; WANG MARKUS ; HAGE MATTHEWUS ; MOON JOHN AUS ; HARRIS JASONUS ; HONG STANLEY SUS ; BUERMANN DALEUS ; JOHN A MOON

Agent(s): WRAYS; WRAYS PTY LTD; GOWLING LAFLEUR HENDERSON LLP; RUTHERFORD CLAIRE; IT AND T INTELLECTUAL PROPERTY; GOLD PATENTS LTD; JOHN T; ILLUMINA INC; MURPHY JOHN T 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 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 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

International class (IPC 8-9): B01L3/00 C12M1/00 C12M1/34 C12Q1/68 C12Q1/6869 C12Q1/6874 G01N G01N21/03 G01N21/05 G01N21/64 G01N35/08 G01N37/00 (Advanced/Invention); B01L3/00 G01N21/03 G01N21/05 (Advanced/Non-invention); G01N (Subclass/Invention)

CPC: B01L2200/16 B01L2300/0877 B01L2400/0487 B01L2400/06 B01L3/502715 B01L3/527 C12Q1/6874 G01N21/6428 G01N21/6486 G01N2021/0307 G01N2021/0325 G01N2021/058 G01N2021/6417 G01N2021/6441 G01N2021/6482 C12Q1/6869

US class: 1/1 422/501 435/287.2 435/6.1 506/2

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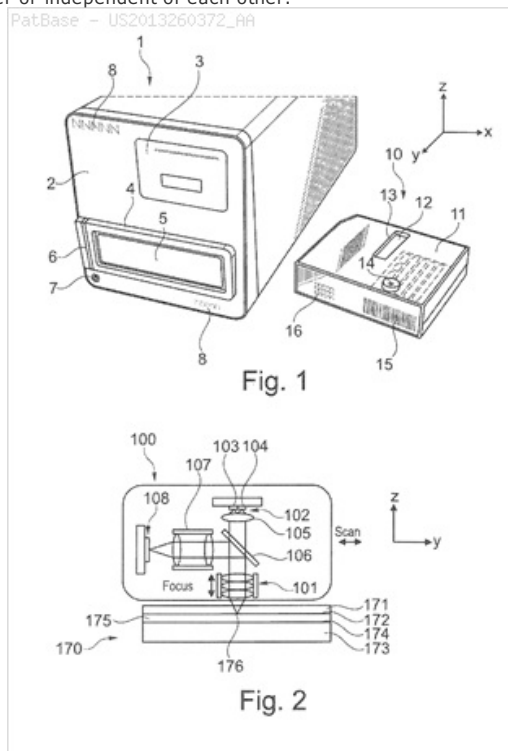
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Forward Citations:

WO20047010, WO20047007, WO20047005, WO20047004, WO20047002, WO20008972, WO19203986, WO19195225, WO19116295, WO19116294, WO19035897, WO19027767, WO18236631, WO18226708, WO18197945, WO18183745, WO18136416, WO18129314, WO18128847, WO18128846, WO18128845, WO18128844, WO18128843, WO18064116, WO18018008, WO17165852, WO17123533, WO17110557, WO17019456, WO16196358, WO16073237, WO16061484, WO16057950, WO16040602, WO15183871, WO15175832, WO15084985, WO15031596, WO15021228, WO14144569, USD825078, USD819829, USD766761, US9976174, US9958465, US9835640, US9827565, US9777325, US9650669, US9591268, US9554095, US9410977, US9193998, US9146248, US2015125053, US2014329694, US10596569, US10591503, US10590464, US10584374, US10576471, US10570447, US10549281, US10540783, US10508305, US10501796, US10427155, US10393613, US10351846, US10249038, US10232369, US10118173, US10006083, RU2713085, RU2682546, NL2021147, JP6567685, JP2020008405, JP2019508669, JP2018518657, JP2018513966, JP2017522546, JP2017522545, JP2017112934, ITUA20162851, EP3469380, EP3304077, EP3303584, EP3280819, EP3271073, EP3215616, EP3039409, EP2971099, DE102018212489, CN106536055, CN106536055, CN106459869,

Abstract:

A detection apparatus having a read head including a plurality of microfluorometers positioned to simultaneously acquire a plurality of the wide-field images in a common plane; and (b) a translation stage configured to move the read head along a substrate that is in the common plane. The substrate can be a flow cell that is included in a **cartridge**, the **cartridge** also including a housing for (i) a sample reservoir; (ii) a fluidic line between the sample reservoir and the flow cell; (iii) several reagent reservoirs in fluid communication with the flow cell, (iv) at least one valve configured to mediate fluid communication between the reservoirs and the flow cell; and (v) at least one pressure source configured to move liquids from the reservoirs to the flow cell. The detection apparatus and **cartridge** can be used together or independent of each other.



15) Family number: 55051584 (US2015119268A)

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Title:

APPARATUS WITH HETEROGENEOUS PROCESSING MODULES

Priority:

US20120639820P 20120427 AU20130251488 20130425 US20130396035 20130425
 WO2013US38210 20130425 US20140396035 20141021 US20180155723 20181009
 AU20190200778 20190205

Family:

Publication number	Publication date	Application number	Application date
AU2013251488 AA	20131031	AU20130251488	20130425
AU2019200778 AA	20190221	AU20190200778	20190205
BR112014026735 A2	20170627	BR20141126735	20130425

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US2019041300 AA	20190207	US20180155723	20181009
US10132728 BB	20181120	US20130396035	20130425
WO13163424 A1	20131031	WO2013US38210	20130425
ZA201407770 A	20180131	ZA20140007770	20130425

Probable Assignee: CEPHEID

Assignee(s):(std): CEPHEID

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Inventor(s):(std): BISHOP JOHN L ; BISHOP JOHN L L ; JOHN L BISHOP

Inventor(s): BISHOP JOHN LUS

Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD; SPRUSON AND FERGUSON; BENOIT AND COTE INC; WEBSTER JEREMY MARK; INSIGHT HK INTELLECTUAL PROPERTY LTD; KILPATRICK TOWNSEND AND STOCKTON LLP; WILLINK CHRISTOPHER L 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 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 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

International class (IPC 8-9): B01L3/00 C12M1/00 C12M1/38 C12Q C12Q1/68 C12Q1/6806 C12Q1/6876 C40B40/04 G01N G01N1/31 G01N33/48 G01N33/50 G01N33/53 G01N33/543 G01N33/68 G01N35/00 G01N35/02 G01N37/00 (Advanced/Invention); C12Q G01N (Subclass/Invention)

CPC: G01N35/00 G01N35/00871 C12Q1/6806 C12Q1/6876 C12Q2600/16 G01N1/31 G01N33/6845

US class: 1/1 435/287.1 435/287.2 435/29 435/6.1 435/6.11 435/6.12 435/7.1 506/39 506/9

[Classification Explorer](#)

Cited documents: WO12012779 A2, WO11067559 A1, WO08012104 A2, WO0218902 A1, WO0073412 A2, WO0072970 A1, US6776961 BB, US6739531 BB, US6660228 BA, US6586176 BA, US6391541 BA, US6168948 BA, US6066243 A, US5928952 A, US5856174 A, US4169125 A, US2013079236 AA, US2011091357 AA, US2010129827 AA, US2009041626 AA, US2008200343 AA, US2008200343, US2008153096 AA, US2002177135 AA, US2002042125 AA, JP2007187677 A2, JP2007187677, JP2005261298 A2, JP2005261298, JP2001527220 T2, JP2001527220 T2, JP2001527220, GB1561042 A, EP1305638 B1, CN1297529 A, CN101370622 A,

Forward Citations: WO18111935, WO18094283, US2014098252, JP2018502309,

Abstract:
A biological sample processing apparatus having an enclosure. A plurality of sample processing modules are held by the enclosure. Each sample processing module is configured to hold a removable sample **cartridge** and to only perform sample processing on a sample within the corresponding removable sample **cartridge**. Each sample processing module is configured to perform at least one of a plurality of testing processes on the sample within the removable sample **cartridge**. At least one module in the apparatus is configured to perform nucleic acid amplification and detection.



16) Family number: 54976660 (US2013274148A)

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Title:	PORTABLE GENETIC DETECTION AND ANALYSIS SYSTEM AND METHOD			
Priority:	US20120622773P 20120411	US20130790623 20130308	US20160209351 20160713	
	US20190540769 20190814			
Family:	Publication number	Publication date	Application number	Application date
	 US2013274148 AA	20131017	US20130790623	20130308
	 US2016319327 AA	20161103	US20160209351	20160713

US2019367965 AA	20191205	US20190540769	20190814
US10428367 BB	20191001	US20160209351	20160713

Probable Assignee: ILLUMINA INC
Assignee(s):(std): ILLUMINA INC
Inventor(s):(std): MOON JOHN A ; ELTOUKHY HELMY A ; KAIN ROBERT C ; SHEN MIN JUI RICHARD
Agent(s): FLETCHER YODER PC
International class (IPC 8-9): B01L3/00 C12Q1/68 C12Q1/6837 C12Q1/6869 G01N33/487 (Advanced/Invention); G01N35/00 (Advanced/Non-invention)
CPC: B01L3/5027 G01N33/48721 G01N33/4875 G01N33/48792 G01N2035/00881 B01L3/502715 B01L2200/10 B01L2300/023 B01L2300/024 B01L2300/027 B01L2300/0636 C12Q1/68 C12Q1/6837 C12Q1/6869
US class: 1/1 435/287.2 506/38 506/39 506/4

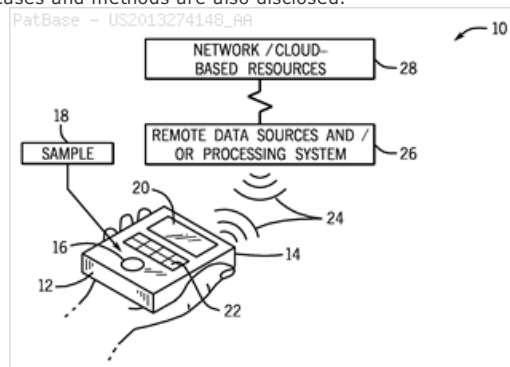
[Classification Explorer](#)

Cited documents: WOWO9106678, WOWO8910977, WOWO2011067559, WOWO2010077859, WOWO2010034018, WOWO2007123744, WOWO2005010145, WOWO2004018497, WO9106678 A1, WO8910977 A1, WO11067559 A1, WO10077859 A2, WO10034018 A2, WO07123744 A2, WO05010145 A2, WO04018497 A2, US9651519 BB, US8315817 BB, US7998436 BB, US7815871 BB, US7595883 BA, US7405281 BB, US7329860 BB, US7329492 BB, US7315019 BB, US7244559 BB, US7211414 BB, US7115400 BA, US7057026 BB, US7001792 BB, US6911132 BB, US6627067 BA, US6413792 BA, US6274320 BA, US6258568 BA, US6210891 BA, US5750341 A, US5641658 A, US5599675 A, US2013331992 AA, US2013217106 AA, US2012322679 AA, US2012270305 AA, US2012020537 AA, US2011072914 AA, US2010294663 AA, US2010224494 AA, US2010187115 AA, US2010137143 AA, US2010111768 AA, US2010048410 AA, US2010009871 AA, US2009150084 AA, US2009127589 AA, US2009100030 AA, US2009026082 AA, US2008182757 AA, US2008108082 AA, US2008009420 AA, US2007128624 AA, US2007099208 AA, US2005191698 AA, US2005130173 AA, US2005064460 AA, US2005043894 AA, US2004096853 AA, US2004002090 AA, US2002189946 AA, US2002055100 AA,

Forward Citations: WO17050721, WO14144569, US10508305, US10102338, JP6644329, JP2019527819, JP2018531376, JP2017096677, EP2971099, CN108369221, CN108369221,

Abstract:

A portable detector is disclosed for detecting certain analytes of interest, such as genetic material (e.g., nucleic acids). The detector includes a reading component for the detection of the analytes, and control circuitry for controlling operation of the reading component. Processing circuitry may be included to perform both primary analysis of acquired data, and where desired, secondary analysis. Where desired, some or all of the computationally intensive tasks may be off-loaded to enhance the portability and speed of the device. The device may incorporate various types of interface, technologies for reading and analysis, positioning system interfaces, and so forth. A number of exemplary use cases and methods are also disclosed.



17) Family number: 44532664 (US2012322679A)

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Title: BIOCHEMICAL ANALYSIS INSTRUMENT
Priority: US20090265488P 20091201 GB20090022743 20091231 GB20100016614 20101001
EP20100793017 20101201 US20100512937 20101201 WO2010GB02206 20101201
US20120512937 20120906 US20140302303 20140611 US20150812510 20150729
US20170491450 20170419 US20180170620 20181025 US20190297555 20190308
US20190374703 20190403

Family:	Publication number	Publication date	Application number	Application date
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	AU2010326349 AA	20120607	AU20100326349	20101201
	AU2010326349 AA	20110609	AU20100326349	20101201
	AU2010326349 AA	20120607	AU20100326349	20101201
	AU2010326349 AA	20110609	AU20100326349	20101201
	AU2010326349 BB	20151029	AU20100326349	20101201
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	CA2781581 AA	20110609	CA20102781581	20101201
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	CN102741430 B	20160713	CN201080062958	20101201
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	JP2013512447 T2	20130411	JP20120541570T	20101201
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	KR101814056 B1	20180102	KR20127017119	20101201

KR20120107105 A	20120928	KR20127017119	20101201
US2012322679 AA	20121220	US20100512937	20101201
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US2019265193 AA	20190829	US20190374703	20190403
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WO11067559 A1	20110609	WO2010GB02206	20101201

Probable Assignee: OXFORD NANOPORE TECHNOLOGIES LTD

Assignee(s):(std): BROWN CLIVE GAVIN ; OXFORD NANOPORE TECH LTD ; OXFORD NANOPORE TECHNOLOGIES LTD ; WILLCOCKS JAMES PETER

Assignee(s): OXFORD NANOPORE TECHNOLOGIES LIMITED

Inventor(s):(std): JAMES PETER WILLCOCKS ; CLIVE GAVIN BROWN ; GAVIN BROWN CLIVE ; PETER WILLCOCKS JAMES ; BROWN CLIVE GAVIN ; WILLCOCKS JAMES PETER

Inventor(s): BROWN CLIVE ; WILLCOCKS JAMES

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; OSLER HOSKIN AND HARCOURT LLP; KRAUS AND WEISERT PATENTANWALTE PARTGMBB; MERRYWEATHER COLIN HENRY; ASAMURA PATENT OFFICE PC; ASAMURA KIYOSHI; ASAMURA HAJIME; ANTHONY A; JANE E; NELSON MULLINS RILEY AND SCARBOROUGH LLP; WOLF GREENFIELD AND SACKS PC

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 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 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

International class (IPC 8-9): C12M1/34 C12Q1/68 C12Q1/6869 C40B30/04 C40B60/12 G01N15/06 G01N15/14 G01N27/27 G01N27/28 G01N27/30 G01N27/416 G01N27/447 G01N33/00 G01N33/48 G01N33/487 G01N33/50 G01N35/00 G06F19/20 G06F19/22 G06F19/28 (Advanced/Invention); B82Y30/00 B82Y99/00 (Advanced/Non-invention)

International class (IPC 1-7): C12Q1/68 G01N33/487

CPC: G01N15/1463 G16B30/00 C12Q1/6869 G01N33/48721 G01N15/1459 G01N27/44756

European class: G01N33/487B5

US class: 1/1 204/451 204/602 506/13 506/2 506/38 506/39 506/9 977/781 977/902

[Classification Explorer](#)

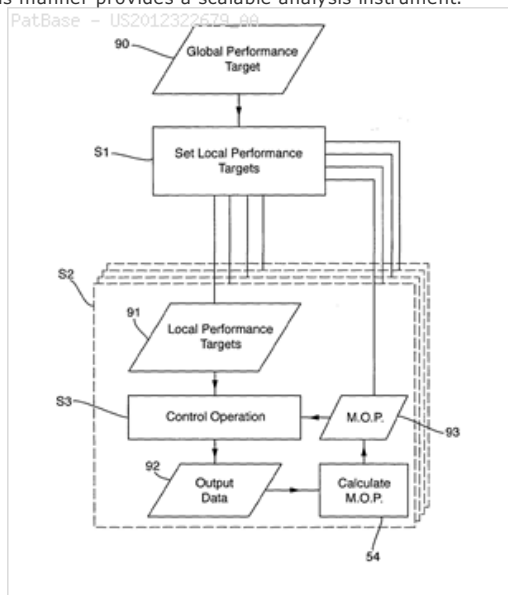
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Forward Citations: WO20049293, WO20043653, WO20025974, WO20025909, WO20016573, WO20002516, WO19234432, WO19227013, WO19224558, WO19171852, WO19149626, WO18211241, WO18203071, WO18146491, WO18128846, WO18128845, WO18100370, WO18073604, WO18071467, WO18060740, WO18011603, WO17203269, WO17174990, WO17149318, WO17149317, WO17149316, WO17098322, WO17050721, WO17050720, WO16205310, WO16132124, WO16132123, WO16059375, WO16059363, WO16057829, WO16055778, WO16055777, WO15150787, WO15110813, WO15056028, WO15055981, WO14190322, WO14135838, WO14123716, WO14122467, WO14072703, WO14064444, WO14013262, WO14013260, WO14013259, WO13163424, WO13153359, WO13130635, WO13123379, WO13121224, WO13121201, WO13098562, WO13098561, WO13057495, WO13041878, WO13038163, WO13008010, WO12164270, WO12042226, US9995728, US9989544, US9957560, US9927398, US9903820, US9885079, US9885078, US9869655, US9862997, US9797013, US9797009, US9777049, US9759711, US9758823, US9751915, US9678055, US9651539, US9651519, US9650669, US9624537, US9617595, US9617593, US9617591, US9605309, US9605307, US9593370, US9581563, US9567630, US9551697, US9551338, US9551023, US9494554, US9444880, US9377437, US9322062, US9290805, US9279153, US9193996, US9121059, US9116139, US9041420, US8845880, US8771491, US2016007893, US2015346149, US2015094214, US10570440, US10549281, US10549274, US10526647, US10514378, US10501767, US10488365, US10480026, US10472673, US10456993, US10443097, US10438662, US10428367, US10421995, US10416117, US10400278, US10400014, US10393700, US10392658, US10386330, US10385382, US10381105, US10371692, US10344327, US10343350, US10343160, US10342589, US10338056, US10337060, US10280411, US10266885, US10246741, US10223502, US10221450, US10215768, US10208342, US10202645, US10196688, US10191010, US10167503, US10156541, US10132728, US10131943, US10102338, US10101315, US10081835, US10077471, US10059988, US10054234,

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Abstract:

An analysis instrument comprises plural modules connected together over a data network, each module comprising an analysis apparatus operable to perform biochemical analysis of a sample. Each module comprises a control unit that controls the operation of the analysis apparatus. The control units are addressable to select an arbitrary number of modules to operate as a cluster for performing a common biochemical analysis. The control units communicate over the data network, repeatedly during the performance of the common biochemical analysis, to determine the operation of the analysis apparatus of each module required to meet the global performance targets, on the basis of measures of performance derived from the output data produced by the modules. The arrangement of the instrument as modules interacting in this manner provides a scalable analysis instrument.



18) Family number: 65762685 (US2018187259A)

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Title: SYSTEM AND METHODS FOR SELECTIVE EFFLUENT COLLECTION
Priority: US20170442742P 20170105 GB20170004766 20170324 US20170841082 20171213
 WO2017US67841 20171221

Family:	Publication number	Publication date	Application number	Application date
	AU2017390261 AA	20181122	AU20170390261	20171221
	BR112018074169 A2	20190306	BR20181174169	20171221
	CA3022690 AA	20181030	CA20173022690	20171221
	CN109313213 A	20190205	CN201780038333	20171221
	EP3469381 A1	20190417	EP20170890028	20171221
	EP3469381 A4	20191225	EP20170890028	20171221
	GB201704766 A0	20170510	GB20170004766	20170324
	IL262682 A0	20181231	IL20170262682	20171221
	IN201817045558 A	20190621	IN201817045558	20181203
	KR20190095108 A	20190814	KR20187036964	20171221
	RU2713085 C1	20200203	RU20180144536	20171221
	SG11201811314R A1	20190130	SG20181111314	20171221
	TW201830187 A	20180816	TW20170145538	20171225
	US2018187259 AA	20180705	US20170841082	20171213
	WO18128846 A1	20180712	WO2017US67841	20171221

Probable Assignee: ILLUMINA INC
Assignee(s):(std): CAPP A KEVIN JAMES ; DREWS BRADLEY KENT ; HAGE MATTHEW WILLIAM ; ILLUMIA INC ; ILLUMINA INC
Inventor(s):(std): BRADLEY KENT DREWS ; CAPP A KEVIN ; DREWS BRADLEY KENT ; CAPP A KEVIN JAMES ; HAGE MATTHEW ; DRYUZ BREDLI KENT ; HAGE MATTHEW WILLIAM ; KEVIN JAMES CAPP A ; MATTHEW WILLIAM HAGE ; KAPP A KEVIN DZHEJMS ; KHEJG METTYU UILYAM
Agent(s): WRAYS PTY LTD; BERESKIN AND PARR LLP SENCRL SRL; MURGITROYD AND CO; ARS PATENT; SCHOLZ CHRISTIAN D 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 DJ 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 JO JP KE KG KH KM KN KP KR KW 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 UG US UZ VC VN ZA ZM ZW
International class (IPC 8-9): B01L3/00 C12Q C12Q1/6874 G01N35/00 G01N35/02 G01N35/08 G01N35/10 G05D7/06 (Advanced/Invention); C12Q (Subclass/Invention)
International class (IPC 1-7): B01L3/00 G01N35/00 G01N35/02 G01N35/08 G01N35/10

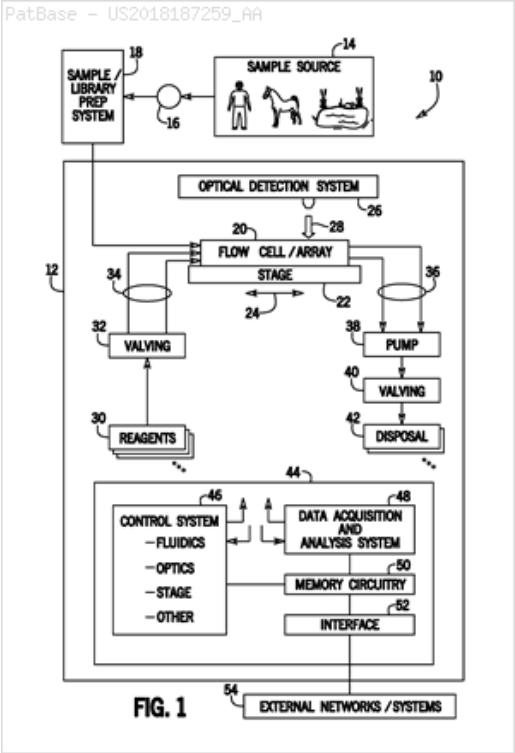
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US class: 1/1 506/2

[Classification Explorer](#)

Cited documents: WO18128844 A1, US2016047805 AA, US2015361488 AA, US2015346149 AA, US2013260372 AA, US2010300895 AA, US2010111768 AA,

Abstract:
A system may include a flow cell through which a plurality of reagents may be pumped during a genetic sequencing operation, an effluent line that, in operation, is to conduct a used reagent, a used reagent valve to receive the used reagent from the effluent line and controllable to select one of a plurality of disposal paths for the used reagent, and control circuitry coupled to the used reagent valve that, in operation, is to control the used reagent valve to select a desired one of the disposal paths depending upon which reagent is being pumped through the flow cell.



19) Family number: 55376726 (US2014034497A) © PatBase

Title: CHIP SET-UP AND HIGH-ACCURACY NUCLEIC ACID SEQUENCING

Priority: US20120660537P 20120615 US20120660543P 20120615 US20130771031P 20130228
US20130918626 20130614 WO2013US46012 20130614

Family:	Publication number	Publication date	Application number	Application date
	CA2876095 AA	20141208	CA20132876095	20130614
	CN104350162 A	20150211	CN201380030786	20130614
	EP2861768 A1	20150422	EP20130804403	20130614
	EP2861768 A4	20160302	EP20130804403	20130614
	GB201402449 A0	20140326	GB20140002449	20130614
	GB2510719 A1	20140813	GB20140002449	20130614
	JP2015525077 T2	20150903	JP20150517465T	20130614
	US2014034497 AA	20140206	US20130918626	20130614
	US9494554 BB	20161115	US20130918626	20130614
	WO13188841 A1	20131219	WO2013US46012	20130614

Probable Assignee: GENIA TECHNOLOGIES INC

Assignee(s):(std): BIBILLO ARKADIUSZ ; CHEN ROGER ; DAVIS RANDALL ; DEIERLING KEVIN ; GENIA TECHNOLOGIES INC ; GENIA TECH INC

Assignee(s): ROCHE SEQUENCING SOLUTIONS INC ; GLENVIEW CAPITAL MASTER FUND LTD ; GLENVIEW CAPITAL OPPORTUNITY FUND LP ; GLENVIEW CAPITAL PARTNERS LP ; GLENVIEW INSTITUTIONAL PARTNERS LP ; GLENVIEW OFFSHORE OPPORTUNITY MASTER FUND LTD ; GENIA TECHNOLOGIES INC325 E. MIDDLEFIELD ROADMOUNTAIN VIEWCA94043US

Inventor(s):(std): BIBILLO ARKADIUSZ ; CHEN ROGER ; DAVIS RANDALL ; DEIERLING KEVIN ; DAVIS RANDALL W

Inventor(s): ROGER CHEN ; RANDALL DAVIS ; ARKADIUSZ BIBILLO ; KEVIN DEIERLING ; DAVIS RANDALLUS ; DEIERLING KEVINUS ; CHEN ROGERUS ; BIBILLO ARKADIUSZUS

Agent(s): BORDEN LADNER GERVAIS LLP; TESCHEMACHER ANDREA; YAMAMOTO OSAMU; TAKEUCHI SHIGEO; ONO SHINJIRO; KOBAYASHI YASUSHI; FISHERBROYLES LLP; VICTORIA L; ALEMOZAFAR ALI 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 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 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

International class C12M1/00 C12N15/09 C12Q1/68 G01N27/447 G01N33/48 G01N33/487 G01N33/53 (Advanced/Invention)
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CPC: G01N27/44791 G01N33/53 G01N33/48 C12Q1/6869 G01N33/48721 C12Q2565/631

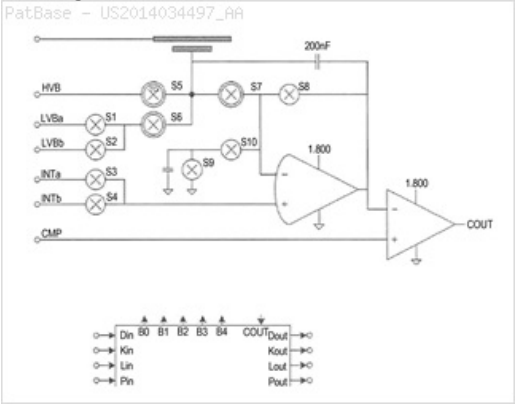
US class: 204/451 204/601 438/689

[Classification Explorer](#)

Cited documents: WO9746704 A1, WO9732999 A1, WO9321340 A1, WO9106678 A1, WO13191793 A1, WO13154999 A2, WO13123450 A1, WO13109970 A1, WO12121756 A1, WO12088341 A2, WO12088339 A2, WO12009578 A2, WO11106459 A2, WO11097028 A1, WO11067559 A1, WO11038241 A1, WO10109197 A2, WO09054922 A1, WO09051807 A1, WO09020682 A2, WO08124107 A1, WO08102120 A1, WO08069973 A3, WO08069973 A2, WO08034602 A3, WO08034602 A2, WO07146158 A1, WO07127327 A2, WO07062105 A3, WO07062105 A2, WO07053719 A3, WO07053719 A2, WO07053702 A3, WO07053702 A2, WO07002204 A3, WO07002204 A2, WO06020775 A2, WO05084367 A3, WO05084367 A2, WO04072238 A2, WO04071155 A2, WO04055160 A3, WO04055160 A2, WO04007773 A1, WO03093494 A2, WO03020734 A2, WO0229003 A3, WO0229003 A2, WO0222883 A1, WO02079519 A1, WO0148235 A2, US8541849 BB, US8461854 BB, US8324914 BB, US8298792 BB, US8257954 BB, US8252911 BB, US8192961 BB, US8148516 BB, US8137569 BB, US8133672 BB, US8088575 BB, US8058414 BB, US8058031 BB, US8058030 BB, US8022511 BB, US7989928 BB, US7982029 BB, US7973146 BB, US7948015 BB, US7947454 BB, US7939270 BB, US7939259 BB, US7924335 BB, US7906371 BB, US7897738 BB, US7883869 BB, US7871777 BB, US7790869 BB, US7777505 BB, US7777013 BB, US7745116 BB, US7727722 BB, US7713698 BB, US7710479 BB, US7635578 BB, US7626379 BB, US7625701 BB, US7622934 BB, US7622279 BB, US7452698 BB, US7446017 BB, US7405281 BB, US7368668 BB, US7361466 BB, US7345159 BB, US7321329 BB, US7279337 BB, US7244602 BB, US7238485 BB, US7233541 BB, US7229799 BB, US7223541 BB, US7189503 BB, US7153672 BA, US7074597 BB, US7057026 BB, US7052839 BB, US7041812 BB, US7033762 BB, US6952651 BB, US6916665 BB, US6891278 BB, US6880346 BA, US6824659 BB, US6800933 BA, US6794177 BB, US6762048 BB, US6746594 BB, US6723513 BB, US6699719 BB, US6686997 BA, US6673615 BB, US6664079 BB, US6627748 BA, US6616895 BB, US6607883 BA, US6485703 BA, US6413792 BA, US6399335 BA, US6399320 BA, US6383749 BB, US6362002 BA, US6321101 BA, US6265193 BA, US6261797 BA, US6255083 BA, US6232103 BA, US6217731 BA, US6210896 BA, US6082115 A, US6046005 A, US6015714 A, US6014213 A, US6012291 A, US5981733 A, US5952180 A, US5939301 A, US5912155 A, US5876936 A, US5869244 A, US5814454 A, US5804386 A, US5795782 A, US5770367 A, US5756355 A, US5576204 A, US5569950 A, US5457342 A, US5308539 A, US5302509 A, US5198543 A, US4859945 A, US4121192 A, US2656508 A, US2014134616 AA, US2014093869 AA, US2014014513 AA, US2013280700 AA, US2013264207 AA, US2013263946 AA, US2013244340 AA, US2013240359 AA, US2013237460 AA, US2013207205 AA, US2013015068 AA, US2012261261 AA, US2012196759 AA, US2012188092 AA, US2012187963 AA, US2012160688 AA, US2012160687 AA, US2012160681 AA, US2012156680 AA, US2012149021 AA, US2012142006 AA, US2012115736 AA, US2012094332 AA, US2012094278 AA, US2012052188 AA, US2012040869 AA, US2012034602 AA, US2011287414 AA, US2011244447 AA, US2011218414 AA, US2011193570 AA, US2011193249 AA, US2011192723 AA, US2011189659 AA, US2011174625 AA, US2011168968 AA, US2011165652 AA, US2011160093 AA, US2011059505 AA, US2011053284 AA, US2011039259 AA, US2011014611 AA, US2011014601 AB, US2011005918 AA, US2010331194 AA, US2010320094 AA, US2010301398 AA, US2010297644 AA, US2010292101 AA, US2010261247 AA, US2010243449 AA, US2010148126 AA, US2010122907 AA, US2010121582 AA, US2010093555 AA, US2010092952 AA, US2010078777 AA, US2010075332 AA, US2010075328 AA, US2010072080 AA, US2010047802 AA, US2010035260 AA, US2010025249 AA, US2010025238 AA, US2009325154 AA, US2009298072 AA, US2009269759 AA, US2009263791 AA, US2009215050 AA, US2009167288 AA, US2009136958 AA, US2009102534 AA, US2009099786 AA, US2009087834 AA, US2009073293 AA, US2009066315 AA, US2009029477 AA, US2008318245 AA, US2008286768 AA, US2008221806 AA, US2008218184 AA, US2008199932 AA, US2008108082 AA, US2008101988 AA, US2007275387 AA, US2007196846 AA, US2007190542 AA, US2007173731 AA, US2006278992 AA, US2006252038 AA, US2006115951 AA, US2006105461 AA, US2006057565 AA, US2005239194 AA, US2005221351 AA, US2005208574 AA, US2005186576 AA, US2005127035 AA, US2005091989 AA, US2005032081 AA, US2004185466 AA, US2004122335 AA, US2003198982 AA, US2003166282 AA, US2003101006 AA, US2003054360 AA, US2003027140 AA, JP2012026986 A2, CN101680873 A,

Forward Citations: WO20000169, WO19055856, WO19040546, WO18205648, WO18205602, WO18183123, WO18167108, WO18077845, WO18054970, WO18050730, WO18017884, WO18002005, WO18001925, WO17167809, WO17167807, WO17148862, WO17148861, WO17132270, WO17070692, WO17050723, WO17021442, WO16206593, WO15197355, WO15077751, US9926596, US9759711, US9678055, US9617595, US9617593, US9605309, US9605307, US9581563, US9567630, US9551697, US9377437, US9322062, US9290805, US9121059, US9041420, US8962242, US8845880, US2017131236, US2017059546, US2017058397, US2016290988, US10590480, US10577653, US10576456, US10570449, US10544456, US10533218, US10526647, US10526588, US10494672, US10472674, US10465240, US10456993, US10444179, US10443096, US10438662, US10421995, US10400278, US10393700, US10371692, US10345290, US10343350, US10308918, US10273536, US10266892, US10266813, US10260095, US10246479, US10240195, US10233490, US10233486, US10190158, US10174371, US10156541, US10155979, US10125393, US10100356, US10093975, US10036739, US10012637, JP6595094, JP6549713, JP2019522196, JP2019516952, JP2018525629, JP2018508746, GB2543217, EP3365273, EP3233268, EP3161146, EP3158330, EP3158330, EP2864502, EP2864502, EP2836604, CN110383065, CN109154596, CN108449991, CN107530673, CN107530673, CN107164466, CN107118955, CN107118955, CN107003295, CN107003295,

Abstract:
The present disclosure provides devices, systems and methods for sequencing nucleic acid molecules. Nucleic acid molecules can be sequenced with a high accuracy (e.g., greater than 97 percent in a single pass) using a chip comprising an array of independently addressable nanopore sensors at a density of at least about 500 sites per 1 mm². An individual nanopore sensor can include a nanopore in a membrane that is adjacent or in proximity to a sensing electrode.



Title: SYSTEMS AND METHODS FOR EARLY DISEASE DETECTION AND REAL-TIME DISEASE MONITORING

Priority: US20130850028P 20130206 EP20140704880 20140206 WO2014GB50353 20140206
US20140766394 20140206

Family:	Publication number	Publication date	Application number	Application date
	DE602014029469 D1	20180830	DE201460029469T	20140206
	EP2953524 A1	20151216	EP20140704880	20140206
	EP2953524 B1	20180801	EP20140704880	20140206
	US2016007893 AA	20160114	US20140766394	20140206
	WO14122467 A1	20140814	WO2014GB50353	20140206
	WO14122467 A4	20141023	WO2014GB50353	20140206

Probable Assignee: FREENOME LTD

Assignee(s):(std): FREENOME HOLDINGS INC ; LOXBRIDGE RES LLP

Assignee(s): LOXBRIDGE RESEARCH LLP ; FREENOME HOLDINGS INC SOUTH SAN FRANCISCO ; FREENOME LTD

Inventor(s):(std): ROBERTS CHARLES EDWARD SELKIRK

Agent(s): GIBSON MARK; KERSHAW JESSICA 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 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 TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8-9): A61B5/00 A61B5/145 G01N33/50 (Advanced/Invention)

CPC: A61B5/0031 A61B5/14546 A61B5/6876

US class: 600/309

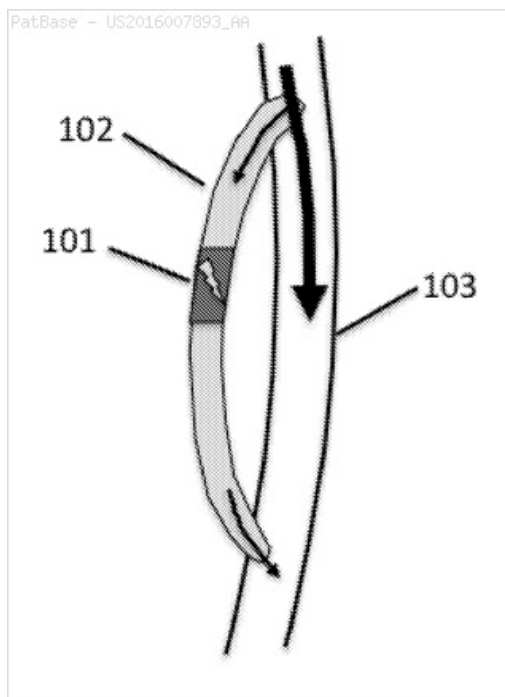
[Classification Explorer](#)

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Forward Citations: WO19035075, WO18234864, WO18009905, WO17147552, WO16030426, US9874554, US9811774, US10576305, US10414755, US10300310, US10300309, US10169207, US10162736, US10118054, CN107003371,

Abstract:

Devices, systems and methods are provided for the real-time detection of disease through constant or periodic monitoring of biomolecules in an individual without laboratory sampling. Biomolecule detector devices may be worn in contact with skin, or be implanted in fluid communication with a biological fluid to provide information and identity of disease-related circulating biomolecules in an individual.



Title: AUTOMATED VOLUMETRIC REAGENT DELIVERY TESTING

Priority: US20170442736P 20170105 GB20170004772 20170324 US20170841085 20171213
WO2017US67840 20171221

Family:

Publication number	Publication date	Application number	Application date
■ CN110226090 A	20190910	CN201780084612	20171221
■ EP3566058 A1	20191113	EP20170890249	20171221
■ GB201704772 A0	20170510	GB20170004772	20170324
■ TW201830020 A	20180816	TW20170145537	20171225
■ US2018188278 AA	20180705	US20170841085	20171213
■ WO18128845 A1	20180712	WO2017US67840	20171221

Probable Assignee:

ILLUMINA INC

Assignee(s):(std):

ILLUMINA INC

Inventor(s):(std):

CAPPA KEVIN ; DREWS BRADLEY KENT ; CAPPA KEVIN JAMES

Agent(s):

MURGITROYD AND CO; SCHOLZ CHRISTIAN D 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 DJ 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 JO JP KE KG KH KM KN KP KR KW 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 UG US UZ VC VN ZA
ZM ZW**International class
(IPC 8-9):**B01L3/00 C12M1/00 C12Q1/68 G01N35/04 G01N35/08 G01N35/10 (Advanced/Invention);
C12M1/00 C12Q1/68 (Advanced/Non-invention)**CPC:**B01L3/0293 B01L3/502715 B01L2200/027 B01L2200/143 B01L2300/0877 B01L2400/0478
B01L2400/0622 G01N35/1002 G01N35/1016 G01N35/1097 B01L3/50273 B01L3/502738 B01L2200/16
B01L2300/024 G01N35/1009 G01N2035/1025**US class:**

1/1 422/62

[Classification Explorer](#)**Cited documents:**

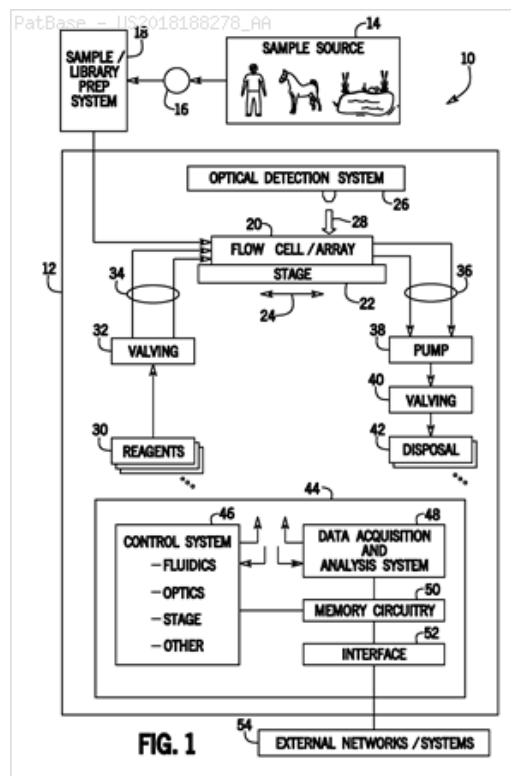
US2016047805 AA, US2015346149 AA, US2013260372 AA, US2010300895 AA, US2010111768 AA,

Forward Citations:

US2017339602,

Abstract:

A system includes a reagent selector valve controllable to select a reagent flow path from a plurality of reagent flow paths, and a pump coupled to the reagent flow path to draw a liquid through the reagent flow path in accordance with a prescribed test protocol. The system includes a discharge flow path to expel the drawn liquid, and a flow meter to measure liquid displaced by the pump and that outputs data representative of the measured flow. The system also includes a processor to access the data and to determine a volume of the liquid displaced by the pump.

**22) Family number: 76699810 (WO19227013A1)**

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Title:

DROPLET INTERFACES IN ELECTRO-WETTING DEVICES

Priority:

US20180675943P 20180524

Family:

Publication number	Publication date	Application number	Application date
■ WO19227013 A1	20191128	WO2019US33957	20190524

Probable Assignee:

OXFORD NANOPORE TECH INC

Assignee(s):(std):

OXFORD NANOPORE TECH INC

Assignee(s):

OXFORD NANOPORE TECHNOLOGIES INC

Inventor(s):(std):

HOLDEN MATTHEW ; HEALY KEN

Agent(s):

YOUNG DANIEL W 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 DJ 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 JO JP KE KG KH KM KN KP KR KW 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

International class
(IPC 8-9):

CPC:

B01L3/502792 B01L2200/10 B01L2300/0645 B01L2300/165 B01L2400/0424 B01L2400/0427 C12M23/16
C12M47/06 C12N13/00 C12Q1/6806 G01N33/48721 G01N33/48728

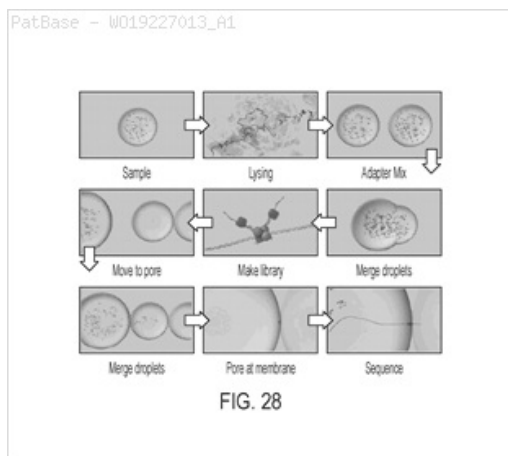
[Classification Explorer](#)

Cited documents:

WO17149318 A1, WO17149317 A1, WO17149316 A1, WO17004504 A1, WO16034591 A2, WO15150786
A1, WO15140535 A1, WO14064444 A1, WO14064443 A2, WO13153359 A1, WO13121224 A1,
WO13083983 A1, WO13041878 A1, WO12164270 A1, WO12107778 A2, WO11067559 A1, WO10086603
A1, WO08012552 A1, US9914135 BB, US8653832 BB, US7163612 BB, US6916488 BA, US6911132 BB,
US6565727 BA, US2018095067 AA, US2016305906 AA, US2013217113 AA, US2010194408 AA,
GB2533952 A1, GB2017053603,

Abstract:

Droplet interfaces are formed between droplets in an electro-wetting device comprising an array of actuation electrodes. Actuation signals are applied to selected actuation electrodes to place the droplets into an energised state in which the shape of the droplets is modified compared to a shape of the droplets in a lower energy state and to bring the two droplets into proximity. The actuation signals are then changed to lower the energy of the droplets into the lower energy state so that the droplets relax into the gap and the two droplets contact each other thereby forming a droplet interface. The use of sensing electrodes in the device permit electrical current measurements across the droplet interface. The sensing electrodes can be used for either (i) applying a reference signal during droplet actuation or (ii) recording electrical current measurements. Two or more electrodes are configurable to lyse cells within a droplet positioned over said electrodes.



23) Family number: 75839942 (WO19171852A1)

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Title: ION CONCENTRATION MEASUREMENT DEVICE

Priority: JP20180039344 20180306

Family:

Publication number	Publication date	Application number	Application date
WO19171852 A1	20190912	WO2019JP03777	20190204

Probable Assignee: HITACHI HIGH TECH CORP

Assignee(s):(std): HITACHI HIGH TECH CORP

Assignee(s): HITACHI HIGH TECHNOLOGIES CORP

Inventor(s):(std): MIYAKE MASAFUMI ; ONO TETSUYOSHI ; OZAWA SATOSHI ; IKEDA UKYO

Agent(s): HIRAKI AND ASSOCIATES

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 DJ 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 JO JP KE KG KH KM KN KP KR KW 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

International class G01N27/28 G01N27/416 (Advanced/Invention)

(IPC 8-9):

CPC:

G01N27/28 G01N27/416

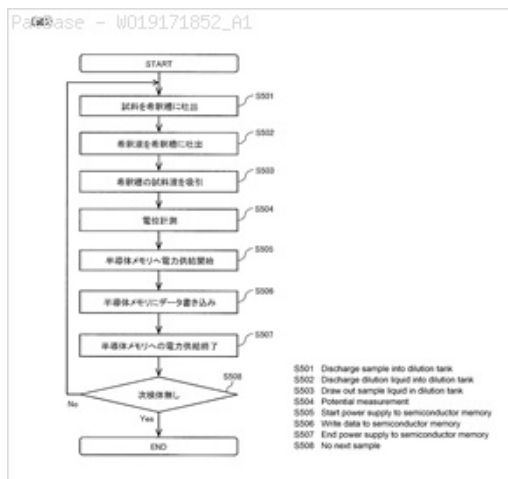
[Classification Explorer](#)

Cited documents:

WO17029893 A1, JP2013512447 T2, JP2011203252 A2, JP2007093252 A2,

Abstract:

The purpose of the present invention is to suppress the influence of noise and heat produced by memory on the measurement results of an ion concentration measurement device that uses an ion detection element that outputs a potential corresponding to an ion concentration. An ion concentration measurement device according to the present invention comprises a cartridge accommodating an ion detection element and memory and supplies power to the memory during a period excluding the period when potential generated by the ion detection element is acquired (see fig. 5).



24) Family number: 59104955 (US2015152494A)

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Title: METHODS FOR FORMING LIPID BILAYERS ON BIOCHIPS

Priority: US20130894661P 20131023 US20140521425 20141022 US20140521427 20141022
 CN201480056837 20141023 CN201480056839 20141023 WO2014US61853 20141023
 WO2014US61854 20141023 US20160066117 20160310 US20160385779 20161220
 US20190272970 20190211

Family:	Publication number	Publication date	Application number	Application date
	CA2926124 AA	20160331	CA20142926124	20141023
	CA2926140 AA	20160331	CA20142926140	20141023
	CN105637081 A	20160601	CN201480056837	20141023
	CN105637081 B	20180601	CN201480056837	20141023
	CN105637082 A	20160601	CN201480056839	20141023
	CN105637082 B	20190215	CN201480056839	20141023
	CN108588199 A	20180928	CN201810413080	20141023
	CN109735440 A	20190510	CN201910050981	20141023
	EP3060646 A1	20160831	EP20140855736	20141023
	EP3060646 A4	20170621	EP20140855736	20141023
	EP3060646 B1	20200101	EP20140855736	20141023
	EP3060647 A1	20160831	EP20140855926	20141023
	EP3060647 A4	20170322	EP20140855926	20141023
	JP2016533723 T2	20161104	JP20160524559T	20141023
	JP2016535589 A2	20161117	JP20160524578	20141023
	JP2016535589 T2	20161117	JP20160524578T	20141023
	JP6514692 B2	20190515	JP20160524559T	20141023
	US2015152494 AA	20150604	US20140521425	20141022
	US2015153302 AA	20150604	US20140521427	20141022
	US2016327507 AA	20161110	US20160066117	20160310
	US2017198343 AA	20170713	US20160385779	20161220
	US2019185927 AA	20190620	US20190272970	20190211
	US9322062 BB	20160426	US20140521427	20141022
	US9567630 BB	20170214	US20140521425	20141022
	US10246743 BB	20190402	US20160385779	20161220
	US10273536 BB	20190430	US20160066117	20160310
	WO15061510 A1	20150430	WO2014US61853	20141023
	WO15061510 A9	20151217	WO2014US61853	20141023
	WO15061511 A1	20150430	WO2014US61854	20141023
	WO15061511 A9	20151126	WO2014US61854	20141023

Probable Assignee: GENIA TECHNOLOGIES INC

Assignee(s):(std): GENIA TECH INC ; GENIA TECHNOLOGIES INC ; ROCHE MOLECULAR SYSTEMS INC ; ROCHE SEQUENCING SOLUTIONS INC

Assignee(s): AGUIRRE ANNE ; CECH CYNTHIA ; DAVIS RANDALL W ; TRANS ANDREW ; POLLARD JAMES ; HARADA ERIC TAKESHI ; LIU EDWARD SHIAN

Inventor(s):(std): FOSTER JOHN ; CHEN ROGER ; TIAN HUI ; YUAN ROBERT ; CECH CYNTHIA ; TRANS ANDREW ; HARADA ERIC TAKESHI ; LIU EDWARD SHIAN ; AGUIRRE ANNE ; POLLARD JAMES ; DAVIS RANDALL W

Agent(s): BORDEN LADNER GERVAIS LLP; TESCHEMACHER ANDREA; YAMAMOTO OSAMU; TAKEUCHI SHIGEO; ONO SHINJIRO; KOBAYASHI YASUSHI; VICTORIA L; FISHERBROYLES LLP; PASS JASON M; BOYD VICTORIA L

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 UG US UZ VC VN ZA ZM ZW

International class (IPC 8-9): B05D5/12 C12M1/00 C12M1/34 C12M1/36 C12Q1/68 C12Q1/6869 G01N27/00 G01N27/30 G01N27/327 G01N27/447 G01N33/487 (Advanced/Invention)

CPC: C12Q2565/607 C12Q2565/631 C12Q1/6869 G01N33/48721 C12M1/34 G01N27/3277 G01N27/3278 G01N27/44791

US class: 1/1 204/403.01 204/403.08 204/451 205/778

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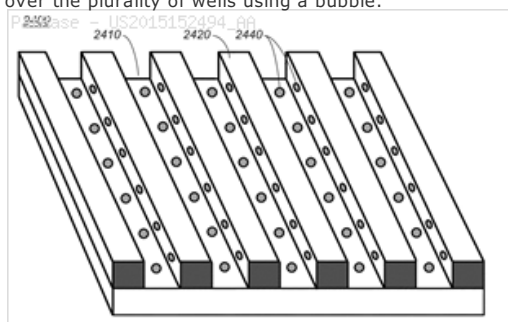
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Abstract:

This disclosure provides a biochip comprising a plurality of wells. The biochip includes a membrane that is disposed in or adjacent to an individual well of the plurality of wells. The membrane comprises a nanopore, and the individual well comprises an electrode that detects a signal upon ionic flow through the pore in response to a species passing through or adjacent to the nanopore. The electrode can be a non-sacrificial electrode. A lipid bilayer can be formed over the plurality of wells using a bubble.

**25) Family number: 54976992 (US2013275486A)**

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Title: CLOUD COMPUTING ENVIRONMENT FOR BIOLOGICAL DATA
Priority: US20120622763P 20120411 US20130790596 20130308 US20160258651 20160907
 US20190259434 20190128

Family:	Publication number	Publication date	Application number	Application date
	US2013275486 AA	20131017	US20130790596	20130308
	US2016378940 AA	20161229	US20160258651	20160907
	US2019164629 AA	20190530	US20190259434	20190128

US9444880 BB	20160913	US20130790596	20130308
US10223502 BB	20190305	US20160258651	20160907

Probable Assignee: ILLUMINA INC

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Inventor(s):(std): GARCIA FRANCISCO JOSE ; KAIN ROBERT C ; NELSON ANDREW R ; KAHN SCOTT D ; DICKINSON ALEXANDER G

Agent(s): FLETCHER YODER PC

International class (IPC 8-9): G06F19/00 G06F19/28 G06F21/62 G16B30/10 G16B50/00 H04L29/06 H04L29/08 H04W4/22 H04W4/90 (Advanced/Invention)

CPC: H04L63/102 H04L63/08 G06F21/6218 G16B50/00 G06F19/28 G16H40/63 G06F19/3418 G16B30/10 H04L67/10

US class: 1/1 709/201 726/4

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Abstract:
The present invention provides a novel approach for storing, analyzing, and/or accessing biological data in a cloud computing environment. Sequence data generated by a particular sequencing device may be uploaded to the cloud computing environment during a sequencing run, which reduces the on-site storage needs for the sequence data. Analysis of the data may also be performed in the cloud computing environment, and the instructions for such analysis may be set at the originating sequencing device. The sequence data in the cloud computing environment may be shared according to permissions. Further, the sequence data may be modified or annotated by authorized secondary users.

