

Search history

Search pn=WO 2015/089092 (Results 1000000)

1:

Search pn=WO2015089092 (Results 1)

2:

Search [SP]: 1. a biosensor comprising: a flow cell and a detection device having the flow cell coupled thereto, the flow cell and the detection device forming a flow channel that is configured to have biological or chemical substances therein that generate light emissions in response to an excitation light, the detection device including: a device base having a sensor array of light sensors and a guide array of light guides, the light guides having input regions that are configured to receive the excitation light and the light emissions from the flow channel, the light guides extending into the device base from the input regions toward corresponding light sensors and having a filter material that is configured to filter the excitation light and permit the light emissions to propagate toward the corresponding light sensors, the device base including device circuitry electrically coupled to the light sensors and configured to transmit data signals based on photons detected by the light sensors and a shield layer extending between the flow channel and the device base, the shield layer having apertures that are positioned relative to the input regions of corresponding light guides such that the light emissions propagate through the apertures into the corresponding input regions, the shield layer extending between adjacent apertures and configured to block the excitation light and the light emissions incident on the shield layer between the adjacent apertures. 2. the biosensor of claim 1, wherein the input regions of the light guides are located within the corresponding apertures of the shield layer or are located a depth into the device base. 3. the biosensor of claim 1, further comprising a passivation layer that extends along the shield layer such that the shield layer is between the passivation layer and the device base, the passivation layer extending across the apertures. 4. the biosensor of claim 3, wherein the filter material of the light guides is an organic filter material, the passivation layer extending directly along the input regions of the light guides and isolating the organic filter material from the shield layer. 5. the biosensor of claim 3, wherein the passivation layer extends directly along the input regions of the light guides at corresponding material interfaces, the material interfaces being located within the corresponding apertures of the shield layer or located a depth into the device base. 6. the biosensor of claim 3, wherein the passivation layer extends into the apertures and forms an array of reaction recesses, the reaction recesses extending toward or being located within corresponding apertures. 7. (canceled) 8. the biosensor of claim 6, wherein the reaction recesses have corresponding base surfaces, the base surfaces being located within the aperture or located a depth into the device base. 9. the biosensor of claim 1, wherein the device base includes peripheral crosstalk shields, each of the crosstalk shields surrounding one of the corresponding light guides, the crosstalk shields configured to reduce optical crosstalk between adjacent light sensors. 10. (canceled) 11. a biosensor comprising: a flow cell and a detection device having the flow cell coupled thereto, the flow cell and the detection device forming a flow channel that is configured to have biological or chemical substances therein that generate light emissions in response to an excitation light, the detection device including: a device base having a sensor array of light sensors and a guide array of light guides, the light guides configured to receive the excitation light and the light emissions from the flow channel, each of the light guides extending into the device base along a central longitudinal axis from an input region of the light guide toward a corresponding light sensor of the sensor array, the light guides including a filter material that is configured to filter the excitation light and permit the light emissions to propagate therethrough toward the corresponding light sensors, the device base including device circuitry that is electrically coupled to the light sensors and configured to transmit data signals based on photons detected by the light sensors wherein the device base includes peripheral crosstalk shields located therein that at least partially surround corresponding light guides of the guide array, the crosstalk shields at least partially surrounding the corresponding light guides about the respective longitudinal axis to reduce optical crosstalk between adjacent light sensors. 12. the biosensor of claim 11, wherein the crosstalk shields surround the input regions of the corresponding light guides. 13. the biosensor of claim 11, wherein the crosstalk shields include crosstalk rings that circumferentially surround the corresponding light guide. 14. the biosensor of claim 11, wherein the device base includes a complementary-metal-oxide semiconductor (cmos) and the device circuitry and the crosstalk shields include metallic elements located within dielectric layers of the device base, the crosstalk shields being electrically separate from the device circuitry. 15. the biosensor of claim 11, further comprising a shield layer extending between the flow channel and the device base, the shield layer having apertures that are positioned relative to the input regions of corresponding light guides of the guide array, the apertures permitting the light emissions to propagate therethrough into the input regions, the shield layer extending between adjacent apertures and configured to block the excitation light and the light emissions incident on the shield layer between the adjacent apertures. 16-17. (canceled) 18. the biosensor of claim 15, wherein the crosstalk shield abuts or is immediately adjacent to the shield layer. 19. the biosensor of claim 11, wherein the crosstalk shields are first crosstalk shields, the device base including second crosstalk shields, wherein each of the light guides of the guide array is at least partially surrounded by corresponding first and second crosstalk shields. 20. the biosensor of claim 19, wherein the first and second crosstalk shields are spaced apart from each other along the corresponding longitudinal axis. 21. the biosensor of claim 19, wherein the first and second crosstalk shields have different dimensions. 22. a method of manufacturing a biosensor, the method comprising: providing a device base having a sensor array of light sensors and device circuitry that is electrically coupled to the light sensors and configured to transmit data signals based on photons detected by the light sensors, the device base having an outer surface applying a shield layer to the outer surface of the device base forming apertures through the shield layer forming guide cavities that extend from corresponding apertures toward a corresponding light sensor of the sensor array depositing filter material within the guide cavities, wherein a portion of the filter material extends along the shield layer curing the filter material removing the filter material from the shield layer, the filter material within the guide cavities forming light guides and applying a passivation layer to the shield layer such that the passivation layer extends directly along the shield layer and across the apertures. 23-36. (canceled) 37. the biosensor of claim 3, wherein the passivation layer includes tantalum pentoxide (ta2o5). 38. the biosensor of claim 37, wherein the passivation layer includes multiple sub-layers in which at least one of the sub-layers includes tantalum pentoxide (ta2o5). 39. the biosensor of claim 38, wherein the sub-layers includes two tantalum pentoxide (ta2o5) layers with a low-temperature film therebetween. (Results 0)

Search [SP]: biosensors for biological or chemical analysis and methods of manufacturing the same biosensor including a device base having a sensor array of light sensors and a guide array of light guides. the light guides have input regions that are configured to receive excitation light and light emissions generated by biological or chemical substances. the light guides extend into the device base toward corresponding light sensors and have a filter material. the device base includes device circuitry electrically coupled to the light sensors and configured to transmit data signals. the biosensor also includes a shield layer having apertures that are positioned relative to the input regions of corresponding light guides such that the light emissions propagate through the apertures into the corresponding input regions. the shield layer extends between adjacent apertures and is configured to block the excitation light and the light emissions incident on the shield layer between the adjacent apertures. (Results 16)

Search 4 and organic (Results 6)

5:

Title: **ORGANIC** OPTICAL MATERIAL

Abstract: Water-resisting **organic** optical material having excellent transmittancy in visible range and less than 40 percent transmittancy in infra red range can be easily prepared by adding a metal compound for supplying a desired amount of Cu++ ion, together with a compound for supplying carboxyl radical, phosphoric radical and/or sulfonic radical to a matrix resin.

Classifications:

International (IPC 8-9): C08F8/44 C08K13/02 C08K3/28 C08K3/32 C08K5/09 C08K5/41 C08K5/42 C08K5/52 C08L101/00 C09K3/00 G02B1/04 G02B5/22 (Advanced/Invention);
C08F8/00 C08K3/00 C08K5/00 C08L101/00 C09K3/00 G02B1/04 G02B5/22 (Core/Invention)

International (IPC 1-7): C08F8/44 C08K13/02 C08K3/28 C08K3/32 C08K5/09 C08K5/42 C08K5/52 C08L101/00 C09K3/00 G02B1/04 G02B5/22

CPC: Y10T428/3154 C08F8/44 G02B1/04

European: C08F8/44 G02B1/04

US: 359/589 359/885 424/78.09 428/421 524/714

Family:

Publication number	Publication date	Application number	Application date
CA2098797 AA	19931223	CA19932098797	19930618
CA2098797 C	20030819	CA19932098797	19930618
DE69310028 D1	19970528	DE19936010028	19930616
DE69310028 T2	19971016	DE19936010028T	19930616
EP0575882 A2	19931229	EP19930109613	19930616
EP0575882 A3	19940202	EP19930109613	19930616
EP0575882 B1	19970423	EP19930109613	19930616
JP6009818 A2	19940118	JP19920202849	19920622
US5315443 A	19940524	US19930076882	19930615

Priority:

JP19920202849 19920622 CA19932098797 19930618

Probable Assignee: KUREHA CORP

Assignee(s): (std): TOKYO SEIHIN KAIHATSU KENKYUSHO ; TOYKO SEIHINKAIHATSU KENKYUSHO ; TOKYO SEIHINKAIHATSU KENKYUSHO

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Inventor(s): (std): IGARI MAKOTO ; IKARI MAKOTO ; TAIRA MICHISABURO ; TAIRA TETSUSABURO

Inventor(s): TAIRA TETSUSABURO SAITAMA JP ; IKARI MAKOTO SAITAMA JP

Agent(s): BULL HOUSSER AND TUPPER LLP

Designated states: DE FR GB IT

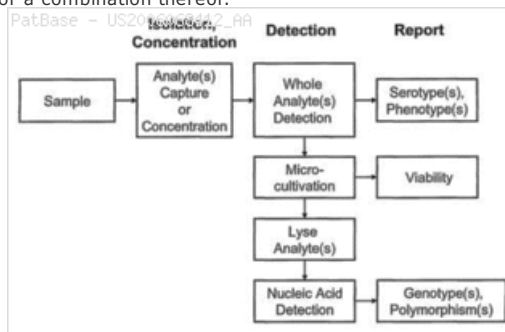
Title: INTEGRATED MULTISTEP BIOPROCESSOR AND SENSOR

Abstract: The invention provides an integrated biosensor. The integrated bioprocessor consists of an integrated capture chamber having an analyte recognition coating and a structure supporting analyte detection, analyte growth and target nucleic acid detection. The integrated capture chamber can consist of a waveguide, a capillary tube, a mixing flow chamber or an integrated combination thereof. The integrated capture chamber also can contain an antibody or other recognition species as an analyte recognition coating, an illumination source, a radiation detector, a microfluidics handling system, a second chamber for target nucleic acid detection or a combination thereof. Also provided is an integrated biosensor. The integrated biosensor consists of an integrated capture chamber having an analyte recognition coating, an illumination source, a radiation detector and a structure supporting analyte detection, analyte growth and target nucleic acid detection. The integrated capture chamber can consist of a waveguide, a capillary tube, a mixing flow chamber or an integrated combination thereof. The integrated capture chamber also can contain an antibody as an analyte recognition coating, a microfluidics handling system, a second chamber for target nucleic acid detection or a combination thereof.

Classifications:**International (IPC 8-9):** C12M1/34 C12M3/00

C12Q1/68 (Advanced/Invention);

C12M1/34 C12Q1/68 (Core/Invention)

CPC: B82Y15/00 B82Y30/00 G01N33/54373**European:** B82Y15/00 B82Y30/00 G01N33/543K2**US:** 435/287.2 435/287.200S 435/6 435/6.11 435/6.110P 435/6P**Family:**

Publication number	Publication date	Application number	Application date
US2006068412 AA	20060330	US20050074329	20050304
WO06025866 A2	20060309	WO2005US07122	20050304
WO06025866 A3	20061116	WO2005US07122	20050304

Priority:

US20040550568P 20040305 US20050074329 20050304

Probable Assignee: CREATV MICROTECH INC**Assignee(s):** (std): CREATV MICROTECH INC ; TANG CHA MEI**Inventor(s):** (std): TANG CHA MEI**Agent(s):** MCDERMOTT WILL AND EMERY

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

Title: INTEGRATED BIO-CHIP AND METHOD OF FABRICATING THE INTEGRATED BIO-CHIP

Abstract: An integrated bio-chip includes; a sample detection portion including at least one light receiving device which detects fluorescent light emitted from at least one sample, a light transfer portion disposed on a light incident surface of the sample detection portion, and which includes at least one excitation light absorbing waveguide which absorbs an excitation light and transmits the fluorescent light emitted from the at least one sample, and a sample reaction portion disposed adjacent to an incident end of the at least one excitation light absorbing waveguide, and including at least one reaction region on which the at least one sample is attached, wherein the sample detection portion, the light transfer portion, and the sample reaction portion are integrally coupled to each other as a single component.

Classifications:

International (IPC 8-9): C12Q1/68 C40B40/08 C40B50/14 C40B60/12 G01N21/64 G01N33/48 G01N33/533 G01N33/58 H01L21/00 (Advanced/Invention);

C12Q1/68 C40B40/04 C40B50/14 G01N21/64 G01N33/48 G01N33/533 G01N33/58 H01L21/00 (Core/Invention)

CPC: G01N21/6454 G01N33/48 C12Q1/6813 G01N21/64 H01L21/00 G01N33/52 G01N21/645 G01N33/582 G01N2021/6478 G01N2201/08

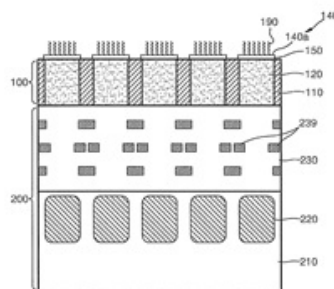
European: G01N21/64P2D

US: 506/17 506/17P 506/30 506/30S

PatBase - US2010204064_AA

Patent Application Publication Aug. 12, 2010 Sheet 1 of 35 US 2010/0204064 A1

FIG. 1



Family:

Publication number	Publication date	Application number	Application date
EP2221606 A2	20100825	EP20100153311	20100211
EP2221606 A3	20120606	EP20100153311	20100211
KR101563158 B1	20151027	KR20090011216	20090211
KR101563688 B1	20151028	KR20090011211	20090211
KR101569833 B1	20151118	KR20090011212	20090211
KR101569834 B1	20151118	KR20090011213	20090211
KR20100091839 A	20100819	KR20090011211	20090211
KR20100091840 A	20100819	KR20090011212	20090211
KR20100091841 A	20100819	KR20090011213	20090211
KR20100091843 A	20100819	KR20090011216	20090211
US2010204064 AA	20100812	US20100704236	20100211
US8921280 BB	20141230	US20100704236	20100211

Priority:

KR20090011211 20090211 KR20090011212 20090211 KR20090011213 20090211
KR20090011216 20090211

Probable Assignee: SAMSUNG ELECTRONICS CO LTD

Assignee(s): (std): CHO SEONG HO ; SAMSUNG ELECTRONICS CO LTD

Assignee(s): SAMSUNG ELECTRONICS CO

Inventor(s): (std): CHO SEONG HO

Agent(s): GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAUESSER ANWALTSSOZIELTET; GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAUESSER; CANTOR COLBURN LLP; LEYDIG VOIT AND MAYER LTD

Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Title: ILLUMINATION OF INTEGRATED ANALYTICAL SYSTEMS

Abstract: An analytical device including an optically opaque cladding, a sequencing layer including a substrate disposed below the cladding, and a waveguide assembly for receiving optical illumination and introducing illumination into the device. The illumination may be received from a top, a side edge, and a bottom of the device. The waveguide assembly may include a nanoscale aperture disposed in the substrate and extending through the cladding. The aperture defines a reaction cell for receiving a set of reactants. In various aspects, the device includes a sensor element and the illumination pathway is through the sensor element. Waveguides and illumination devices, such as plasmonic illumination devices, are also disclosed. Methods for forming and operating the devices are also disclosed.

Classifications:

International (IPC 8-9): B01L3/00 B82Y15/00 B82Y20/00 C12Q1/68 C12Q1/6825 C12Q1/6874 G01J3/02 G01J3/40 G01J3/50 G01N21/00 G01N21/01 G01N21/03 G01N21/05 G01N21/11 G01N21/63 G01N21/64 G01N21/75 G01N21/77 G01N33/543 G02B6/00 G02B6/02 G02B6/10 G02B6/122 G08C23/04 H01L27/144

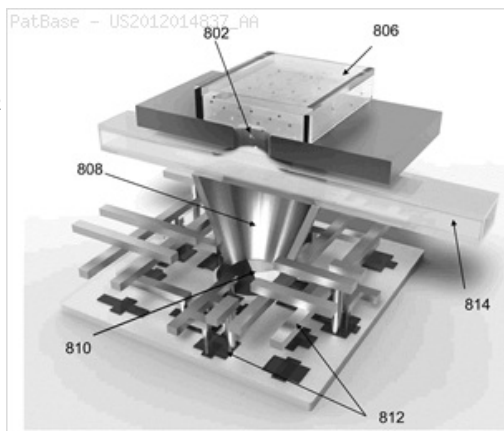
H01R12/70 (Advanced/Invention);

G01N21/77 H01L27/144 (Advanced/Non-invention)

CPC: C12Q1/6869 G01N21/75 G01N21/64 B82Y20/00 G01N21/0303 G01N21/05 G01N21/6454 G01N21/6456 G01N33/54373 G01N2021/0346 G02B6/1226 G01N2021/757 B01L2300/0654 B01L2300/168 G01N21/6452 G01N21/648 G01N2021/7786 C12Q1/6825 B01L3/502715 G01N2021/6434 G01N2021/6441 G01N2201/067 B01L2300/0663 B01L2300/0816 B01L3/502707 Y10T436/143333 G01N21/03 G01N21/645 G01N2021/6439 G01N2021/6463 G01N2201/08 G01N2201/068 G01N21/77 C12Q1/6874 G01N21/6428

European: B01L3/5027A G01N21/64P2 G01N21/64P8 L01L300/06B6 L01L300/16B

US: 1/1 250/214.1 250/214.100S 250/226 250/226S 250/458.1 250/458.100S 250/459.1 250/459.100S 250/491.1 250/492.1 356/246 356/318 356/319 356/432 356/432P 356/73.1 385/12 385/123 385/123S 385/129 385/129S 385/12S 385/14 385/39 385/43 422/69 422/82.05 422/82.07 422/82.08 422/82.080S 422/82.11 422/82.110P 435/287.2 435/6.1 435/6.12 436/172 436/172S 436/501 436/94 436/94P 439/55 439/55S 506/2 506/38 506/39 506/6



Family:

Publication number	Publication date	Application number	Application date
AU2011217862 AA	20110825	AU20110217862	20110218
AU2011217862 BB	20140522	AU20110217862	20110218
AU2011217862 BI	20140710	AU20110217862	20110218
AU2014202286 AA	20140522	AU20140202286	20140428
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CA2790393 AA	20110825	CA20112790393	20110218
CN102985803 A	20130320	CN201180019730	20110218
CN104624258 A	20150520	CN201410667643	20110218
CN104624258 B	20161109	CN201410667643	20110218
DE602011030143 D1	20161020	DE201160030143T	20110218
DE602011031934 D1	20161215	DE201160031934T	20110218
EP2537010 A1	20121226	EP20110745387	20110218
EP2537010 A4	20131225	EP20110745387	20110218
EP2537019 A1	20121226	EP20110745384	20110218
EP2537019 A4	20140312	EP20110745384	20110218
EP2537019 B1	20160907	EP20110745384	20110218
EP2537053 A1	20121226	EP20110745380	20110218
EP2537053 A4	20131211	EP20110745380	20110218
EP2537053 B1	20161102	EP20110745380	20110218
EP2933629 A1	20151021	EP20140191733	20110218
IN08047DN2012 A	20140321	IN2012DN08047	20120914
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US2013143206 AA	20130606	US20120725085	20121221
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US9488584 BB	20161108	US20150730970	20150604

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WO11103497 A1	20110825	WO2011US25525	20110218
WO11103504 A1	20110825	WO2011US25537	20110218
WO11103507 A1	20110825	WO2011US25547	20110218

Priority:

US20100306235P	20100219	US20100387916P	20100929	US20100410189P	20101104
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EP20110745380	20110218	US20110031103	20110218	US20110031122	20110218
US20110031146	20110218	WO2011US25537	20110218	WO2011US25547	20110218
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Assignee(s): PACIFIC BIOSCIENCES OF CALIFORNIA INC MENLO PARK

Inventor(s): (std): FEHR ADRIAN ; HELGESEN SCOTT EDWARD ; MCCAFFREY NATHANIEL JOSEPH ; SAXENA JR RAVI ; SAXENA RAVI ; SAXENA SR RAVI ; TURNER STEPHEN

Inventor(s): TURNER STEPHEN MENLO PARK ; SAXENA RAVI MENLO PARK ; MCCAFFREY NATHANIEL JOSEPH MENLO PARK ; HELGESEN SCOTT EDWARD MENLO PARK ; FEHR ADRIAN MENLO PARK

Agent(s): FB RICE; FB RICE PTY LTD; GOWLING LAFLEUR HENDERSON LLP; ONEILL MICHELLE; KIDDLE SIMON JOHN; MORGAN LEWIS AND BOCKIUS LLP; JOHNSON VICTOR E 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 RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: HIGH RESOLUTION FLUORESCENCE DETECTION SYSTEM

Abstract: A compact image sensor for imaging radiation emitted by fluorescing objects exposed to excitation light is disclosed. The compact image sensor includes a light guide defining a longitudinal axis for channeling radiation emitted by the fluorescing object; a reflective surface defined on the light guide that is oriented at an angle with respect to the longitudinal axis of the light guide to reflect the excitation light away from a detector of the image sensor; and the detector positioned at an end of the light guide for imaging radiation emitted by the fluorescing object. Also disclosed is a fluorescence imaging system for imaging radiation emitted by a fluorescing object to be imaged by compact image sensor and a method of fluorescence imaging.

Classifications:

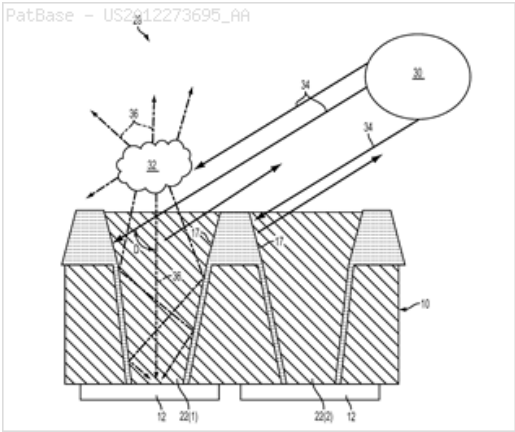
International (IPC 8-9): F21V9/16 G01N21/64 G01T1/20

H01L27/146 (Advanced/Invention)

CPC: G01N21/6456 G01N21/6454

European: G01N21/64P4 S01N21/64P2D

US: 250/206 250/370.09 250/370.11 250/458.1 250/459.1



Family:

Publication number	Publication date	Application number	Application date
US2012273695 AA	20121101	US20110165005	20110621
US8466437 BB	20130618	US20110165005	20110621

Priority:

US20110480068P 20110428 US20110165005 20110621

Probable Assignee:

APTINA IMAGING CORP

Assignee(s): (std):

APTINA IMAGING CORP ; BOETTIGER ULRICH

Inventor(s): (std):

BOETTIGER ULRICH

Agent(s):

DAVID C

Title: BIOSENSORS FOR BIOLOGICAL OR CHEMICAL ANALYSIS AND METHODS OF MANUFACTURING THE SAME

Abstract: Biosensor including a device base having a sensor array of light sensors and a guide array of light guides. The light guides have input regions that are configured to receive excitation light and light emissions generated by biological or chemical substances. The light guides extend into the device base toward corresponding light sensors and have a filter material. The device base includes device circuitry electrically coupled to the light sensors and configured to transmit data signals. The biosensor also includes a shield layer having apertures that are positioned relative to the input regions of corresponding light guides such that the light emissions propagate through the apertures into the corresponding input regions. The shield layer extends between adjacent apertures and is configured to block the excitation light and the light emissions incident on the shield layer between the adjacent apertures.

Classifications:

International (IPC 8-9): G01J1/02 G01J1/04 G01J1/06 G01N

G01N21/00 G01N21/05 G01N21/63 G01N21/64

G01N33/483 (Advanced/Invention);

G01N21/05 (Advanced/Non-invention);

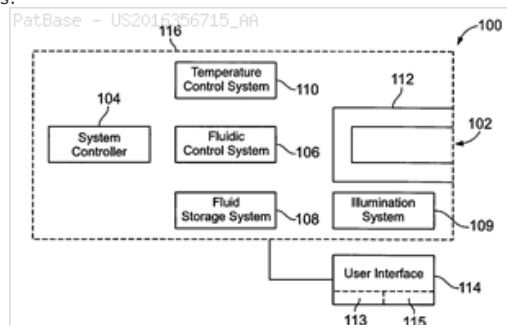
G01N21/00 (Core/Invention);

G01N (Subclass/Invention)

CPC: G01N21/6428 G01N2201/061 G01N21/645 G01N2021/6441

G01N2021/6482 G01N21/6454 G01N21/05 G01N2201/0642

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Priority:

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Agent(s): WRAYS PTY LTD; ROBIC; JUAN ENRIQUE PUGA VALDEZ; JAIME EDUARDO DELGADO VILLEGAS; THOM RUSSELL; SMALL DEAN 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 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