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EP3505885 A2	Light energy fluorescence excitation	ILLUMINA
EP3502668 A1	Two-filter light detection devices and methods of manufacturing same	ILLUMINA
EP3502667 A1	Light detection devices with protective liner and methods related to same	ILLUMINA
EP3080585 A1	Biosensors for biological or chemical analysis and methods of manufacturing the same	ILLUMINA
EP3068901 A1	Integrated device with external light source for probing detecting and analyzing molecules	QUANTUM
EP2537010 A1	Optics collection and detection system and method	PACIFIC BIOSCIENCES OF CALIFORNIA
EP1774297 A1	Device for the detection of fluorescence emitted by chromophoric elements in the wells of a multiwell plate	GENEWAVE
EP1556681 A1	Device for supporting chromophoric elements	GENEWAVE
EP3658900 A1	Optical rejection photonic structures	QUANTUM
US4703182 A	Arrangement for fluorescence-optical measurement of concentrations of substances contained in a sample	V L GESELLSCHAFT FUR VERBRENNUNGSKRAFTMASCHINEN & MESSTECHNIK M B H PROF DR DR H C HANS LIST KLEISTSTRASSE 48, ...
EP2221606 A2	Integrated bio-chip and method of fabricating the integrated bio-chip	SAMSUNG ELECTRONICS
EP2746738 A2	Sensor device including one or more metal-dielectric optical filters	VIAVI SOLUTIONS
US20130037726 A1	Compact analyzer with spatial modulation and multiple intensity modulated excitation sources	PALO ALTO RESEARCH CENTER
EP1337847 A1	A label-free high-throughput optical technique for detecting biomolecular interactions	X BODY
WO2012105945 A1	Apparatus and method for performing spectroscopy	HEWLETT PACKARD DEVELOPMENT
US20070002325 A1	Fluorescence measurement apparatus	PHC HOLDINGS
US20120273695 A1	High resolution fluorescence detection system	APTINA IMAGING
EP2264439 A2	Fluorometer with low heat-generating light source	QUALICON DIAGNOSTICS
US20180341649 A1	Biosensors for biological or chemical analysis and systems and methods for same	INC NEC LABORATORIES AMERICA, ...

Family 1/20 - FAMPAT - ©Questel

Title

(EP3732468)

Detector with reduced fluorescence range noise

Publication numbers

JP2020531797

EP3732468

PH12019502900

BR112019028286

TWI698638

CL2019003784

IN201947054059

US20200166461

CO2019014476

CR20190584

KR10-2020-0017431

US10551317

IL271293

SG11201912255R

AU2018397465

BR112019028286

CN209624391

TW201930878

CN109975255

CA3067249

US20190204226

WO2019/133182

Publication dates

2020-11-05

2020-11-04

2020-09-14

2020-07-14

2020-07-11

2020-07-10

2020-06-05

2020-05-28

2020-04-13

2020-03-06

2020-02-18

2020-02-04

2020-01-30

2020-01-30

2020-01-16

2020-01-07

2019-11-12

2019-08-01

2019-07-05

2019-07-04

2019-07-04

Family 2/20 - FAMPAT - ©Questel

Title

(EP3505885)

Light energy fluorescence excitation

Publication numbers

CL2019003782

BR112019026808

IN201947051408

CO2019014439

KR10-2020-0024146

CR20190585

IL271086

SG11201911586S

BR112019026808

AU2018397466

CN209570503

EP3505885

TW201930851

CN109975256

CA3085140

US20190204227

WO2019/133183

EP3505885

Publication dates

2020-07-10

2020-06-30

2020-06-05

2020-04-01

2020-03-06

2020-02-26

2020-01-30

2020-01-30

2019-12-24

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2019-08-01

2019-07-05

2019-07-04

2019-07-04

2019-07-04

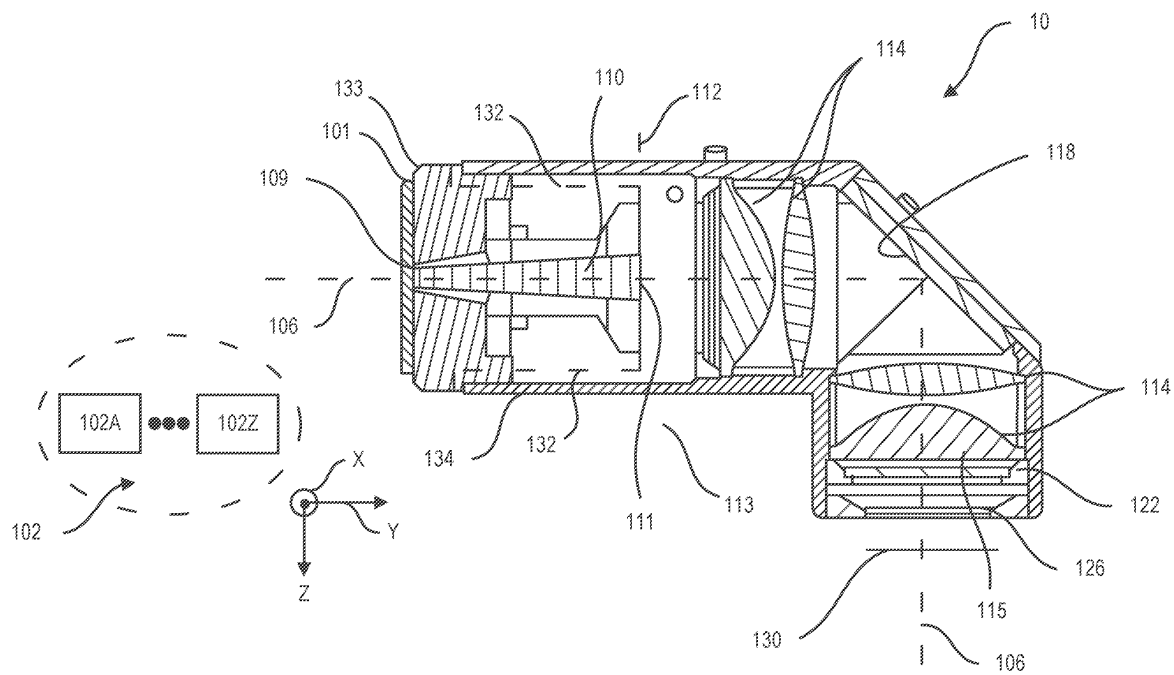
2019-07-03

Abstract

(EP3505885)

There is set forth herein a light energy exciter that can include one or more light sources. A light energy exciter can emit excitation light directed toward a detector surface that can support biological or chemical samples.

Images



Family 3/20 - FAMPAT - ©Questel

Title

(EP3502668)

Two-filter light detection devices and methods of manufacturing same

Publication numbers

PH12019502903

US20200264376

TWI700839

BR112019028293

CL2019003783

IN201947050408

US10649145

CO2019014432

CR20190583

KR10-2020-0020685

IL270848

BR112019028293

CN209894700

SG11201911434U

AU2018390429

TW201929247

CN109959642

NL2020625

CA3067424

US20190196108

WO2019/125690

EP3502668

Publication dates

2020-09-14

2020-08-20

2020-08-01

2020-07-14

2020-07-10

2020-05-22

2020-05-12

2020-04-01

2020-02-26

2020-02-26

2020-01-30

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2019-07-02

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2019-06-27

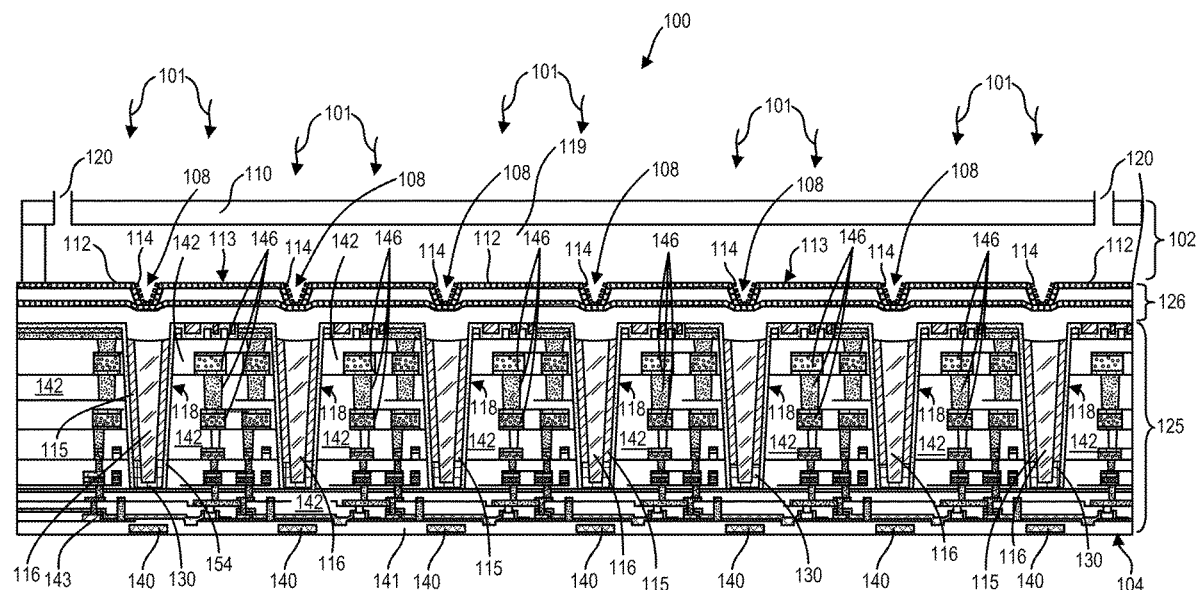
2019-06-27

2019-06-26

Abstract

(EP3502668)

Light detection devices and corresponding methods are provided. The devices include a reaction structure to contain a reaction solution and at least one reaction site that generates light emissions in response to incident excitation light after treatment with the reaction solution. The devices also include a plurality of light sensors and device circuitry. The devices further include a plurality of light guides extending toward at least one corresponding light sensor from input regions that receive the excitation light and the light emissions from at least one corresponding reaction recess. The light guides comprise a first filter region that filters the excitation light and permits the light emissions of a first wavelength to pass to the at least one corresponding light sensor, and a second filter region that filters the excitation light and the permits light emissions of a second wavelength to pass to the at least one corresponding light sensor.

Images

Family 4/20 - FAMPAT - ©Questel

Title

(EP3502667)

Light detection devices with protective liner and methods related to same

Publication numbers

JP2020532707

EP3502667

PH12019502901

CL2019003779

BR112019027633

CN210037611

IN201947052665

CO2019014442

CR20190588

KR10-2020-0019144

CN210037611

IL271191

SG11201911865T

AU2018390335

BR112019027633

TW201930852

CN109959639

NL2020612

CA3066759

US20190195797

WO2019/125689

EP3502667

Publication dates

2020-11-12

2020-10-28

2020-09-14

2020-07-10

2020-07-07

2020-06-05

2020-05-22

2020-04-01

2020-02-26

2020-02-21

2020-02-07

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2019-08-01

2019-07-02

2019-07-02

2019-06-27

2019-06-27

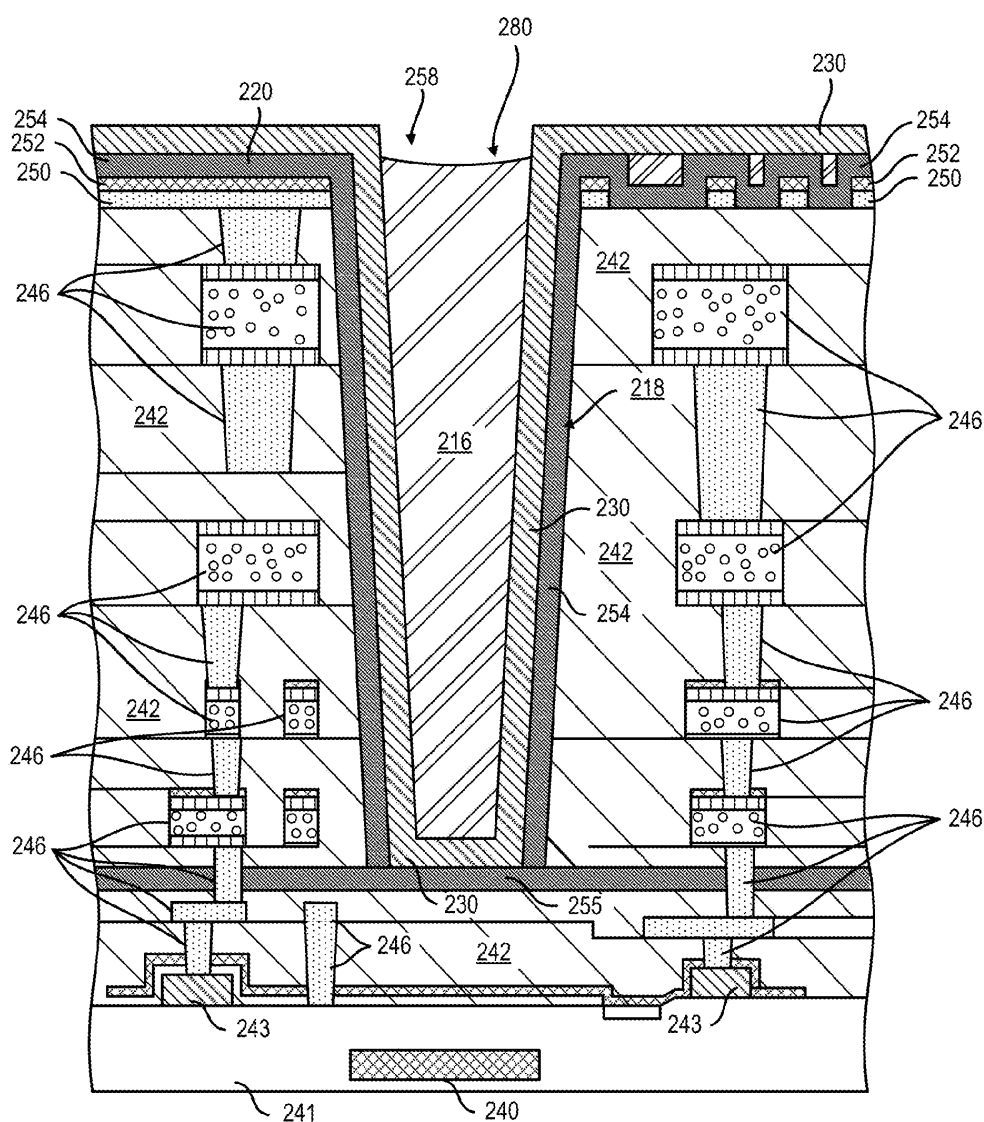
2019-06-27

2019-06-26

Abstract

(EP3502667)

Light detection devices and related methods are provided. The devices may comprise a reaction structure for containing a reaction solution with a relatively high or low pH and a plurality of reaction sites that generate light emissions. The devices may comprise a device base comprising a plurality of light sensors, device circuitry coupled to the light sensors, and a plurality of light guides that block excitation light but permit the light emissions to pass to a light sensor. The device base may also include a shield layer extending about each light guide between each light guide and the device circuitry, and a protection layer that is chemically inert with respect to the reaction solution extending about each light guide between each light guide and the shield layer. The protection layer prevents reaction solution that passes through the reaction structure and the light guide from interacting with the device circuitry.

Images

Family 5/20 - FAMPAT - ©Questel

Title

(EP3080585)

Biosensors for biological or chemical analysis and methods of manufacturing the same

Publication numbers

JP2020112560

IL246060

KR10-2020-0042023

KR10-2102934

NZ720871

JP6672149

ZA201603872

CN110411998

AU2019246860

CN105980832

AU2014364006

US20190204225

US10254225

RU2675775

MX360883

SG10201804913Y

RU2016122443

EP3080585

CL2016001389

JP2017504789

MX2016007382

US20160356715

EP3080585

CN105980832

IN201617022931

KR20160096644

IL246060

SG11201604622X

AU2014364006

BR112016013353

CA2932916

WO2015/089092

Publication dates

2020-07-27

2020-05-31

2020-04-22

2020-04-21

2020-03-27

2020-03-25

2019-11-27

2019-11-05

2019-10-31

2019-08-16

2019-07-11

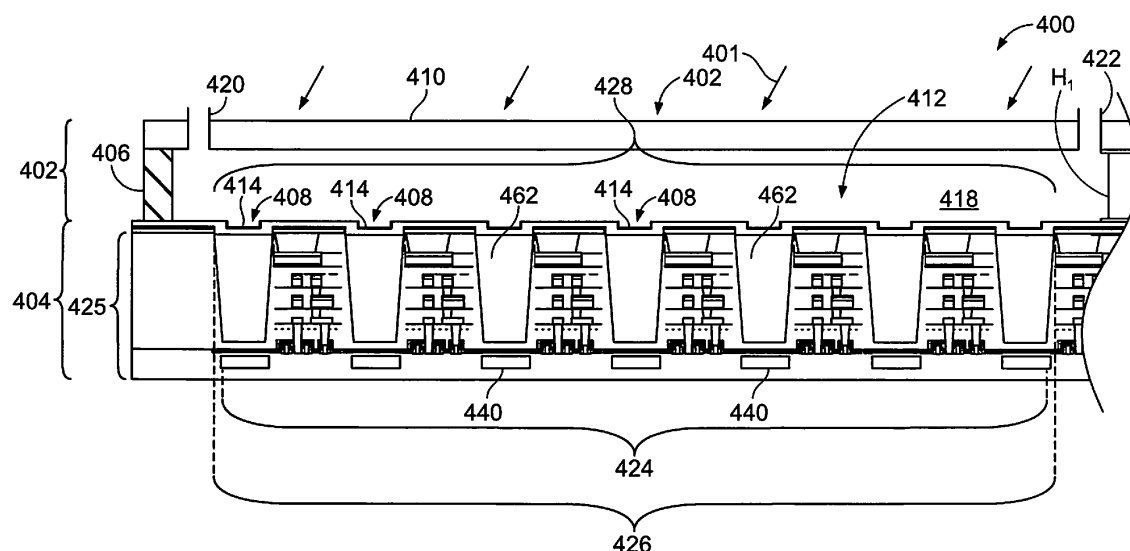
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2016-09-28
2016-08-31
2016-08-16
2016-07-31
2016-07-28
2016-06-23
2016-06-21
2015-06-18
2015-06-18

Abstract

(EP3080585)

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.

Images



Family 6/20 - FAMPAT - ©Questel

Title

(EP3068901)

Integrated device with external light source for probing detecting and analyzing molecules

Publication numbers

US20200371034

AU2014348306

AU2014348302

AU2014348305

EP3715831

EP3709003

BR112016011084

IN202018022773

US10712273

US10712274

JP2020092710

CN111235246

BR112016011052

JP6673843

US20200088643

CN105980580

US10533945

EP3068900

EP3074531

CN110452809

JP6573899

US20180348132

US20180348133

US20180328850

US10048208

US9983135

US20180088052

US9863880

JP2017502310

MX2016006453

MX2016006454

MX2016006455

JP2016537998

JP2016537999

CN106029904

EP3074531

CN105980580

EP3068900

EP3068901

KR10-2016-0108316

KR10-2016-0108317

KR10-2016-0108318

CN105917003

IN201617018832

IN201617018844
IN201617018853
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AU2014348306
BR112016011052
BR112016011061
BR112016011084
US20150177150
CA2930832
CA2930834
CA2930836
US20150141267
US20150141268
WO2015/074001
WO2015/074004
WO2015/074005

Publication dates

2020-11-26
2020-11-12
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2016-12-09

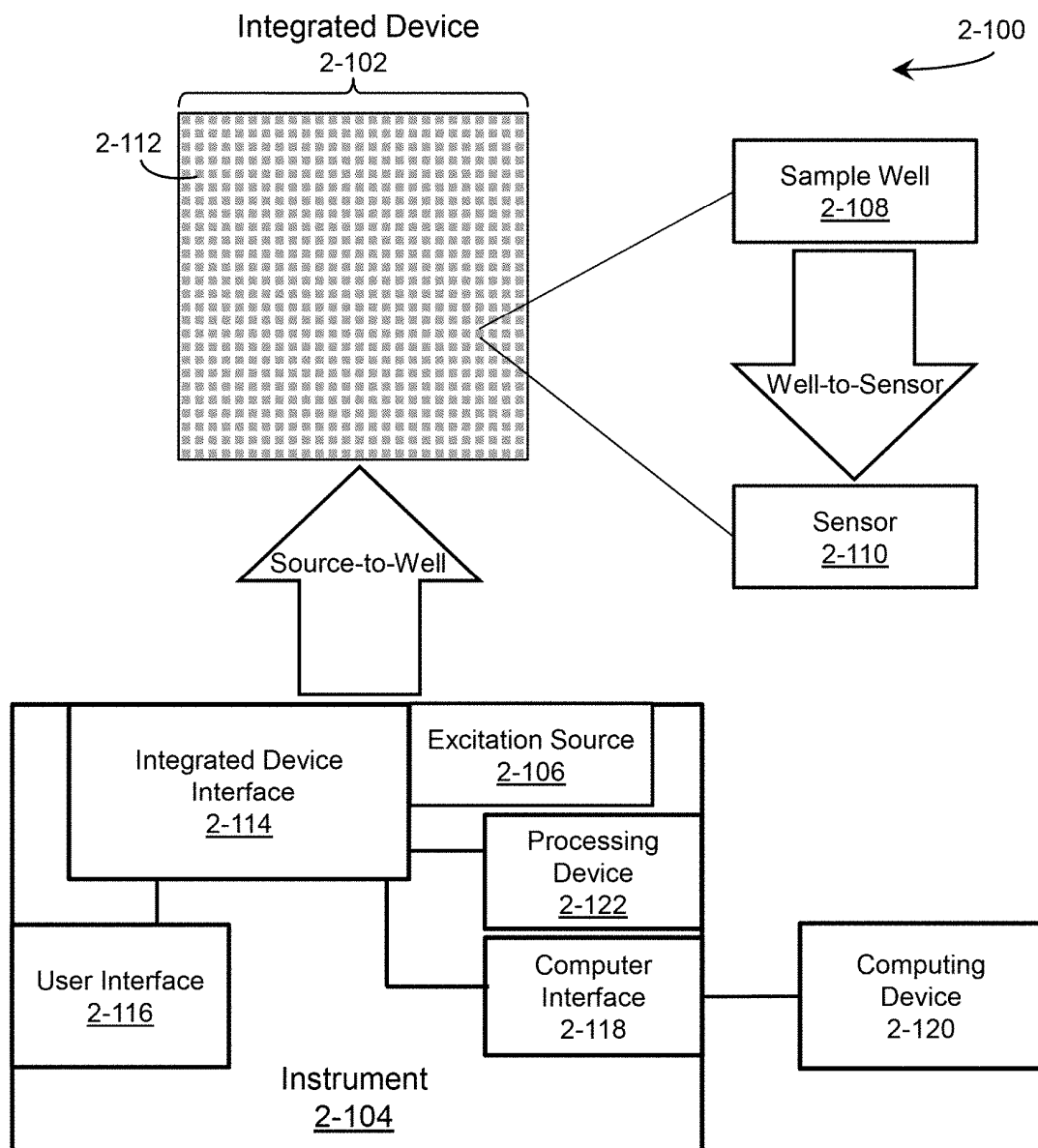
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2015-05-21
2015-05-21
2015-05-21
2015-05-21

Abstract

(EP3068901)

Apparatus and methods for analyzing single molecule and performing nucleic acid sequencing. An integrated device includes multiple pixels with sample wells configured to receive a sample, which, when excited, emits radiation; at least one element for directing the emission radiation in a particular direction; and a light path along which the emission radiation travels from the sample well toward a sensor. The apparatus also includes an instrument that interfaces with the integrated device. Each sensor may detect emission radiation from a sample in a respective sample well. The instrument includes an excitation light source for exciting the sample in each sample well.

Images



Family 7/20 - FAMPAT - ©Questel

Title

(EP2537010)

Optics collection and detection system and method

Publication numbers

US10724090

US10640825

US20190360042

US20190309361

EP2933629

EP3460458

CA2790393

US10138515

US20180155781

US9822410

US20170137877

US20170030834

CN104624258

US9488584

EP2537053

EP2537019

US9410891

US9291568

US9291569

US20160069806

US20150376694

EP2933629

US9157864

US20150247800

US9075019

CN104624258

US20150057194

US8867038

AU2011217862

US20140171331

AU2011217862

IN8047/DELNP/2012

EP2537019

US8649011

EP2537010

US20130330731

EP2537053

US20130251592

US8465699

US8467061

CN102985803

EP2537010

EP2537019

EP2537053

AU20111217862

US20120019828

US20120021525

US20120014837

CA2790393

WO2011/103497

WO2011/103504

WO2011/103507

Publication dates

2020-07-28

2020-05-05

2019-11-28

2019-10-10

2019-04-10

2019-03-27

2019-03-12

2018-11-27

2018-06-07

2017-11-21

2017-05-18

2017-02-02

2016-11-09

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2014-07-10

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2014-02-11

2013-12-25

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2011-08-25

2011-08-25

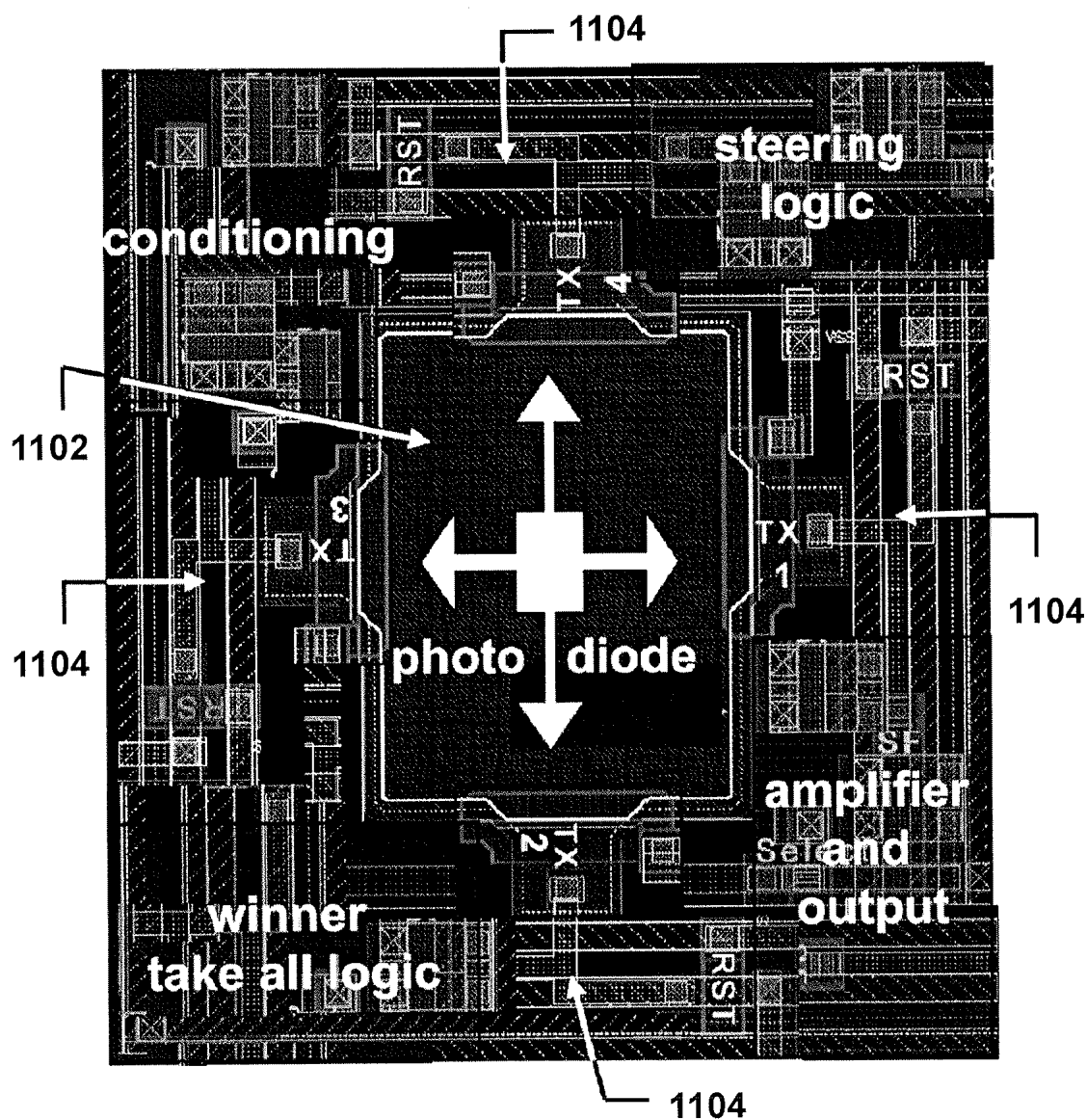
2011-08-25

2011-08-25

Abstract

(EP2537010)

Optics collection and detection systems are provided for measuring optical signals from an array of optical sources over time. Methods of using the optics collection and detection systems are also described.

Images

Family 8/20 - FAMPAT - ©Questel

Title

(EP1774297)

Device for the detection of fluorescence emitted by chromophoric elements in the wells of a multiwell plate

Publication numbers

US20080056950

CN101002083

EP1774297

WO2006/018534

FR2873445

Publication dates

2008-03-06

2007-07-18

2007-04-18

2006-02-23

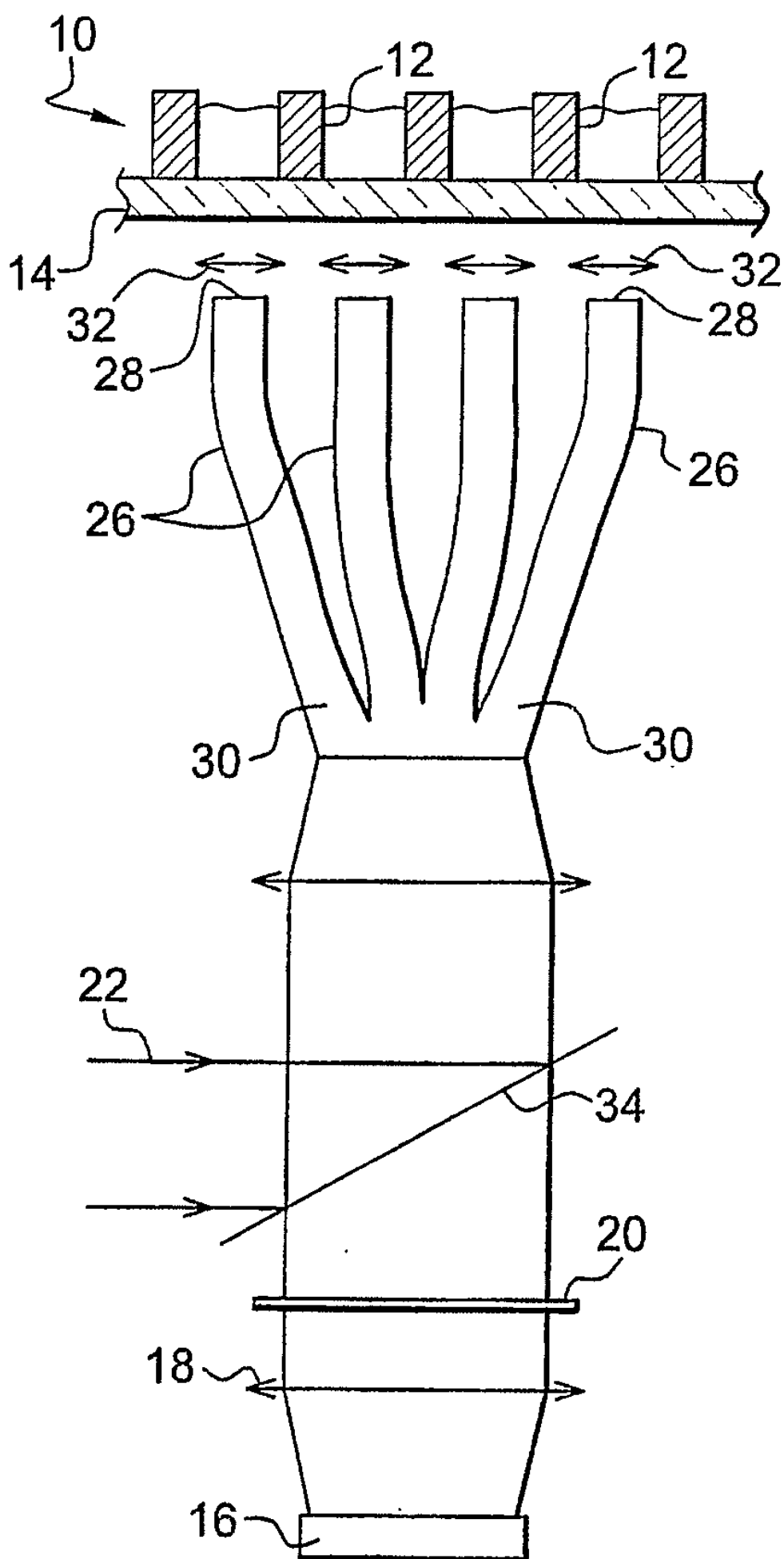
2006-01-27

Abstract

(EP1774297)

The invention relates to a device for the detection of fluorescence emitted by chromophoric elements contained in the wells of a multiwell plate. The inventive device comprises means (54, 56) which are built into the transparent bases of the wells (12) of the plate (10) in order to limit the well penetration depth of a light beam used to excite the chromophoric elements (38) which are fixed to the bases (14) of the wells.

Images



Family 9/20 - FAMPAT - ©Questel

Title

(EP1556681)

Device for supporting chromophoric elements

Publication numbers

EP1556681

EP1556681

USRE46165

US8153066

CN1708680

US20050201899

EP1556681

FR2846745

AU2003288338

WO2004/042376

FR2846745

Publication dates

2020-08-05

2020-06-03

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2012-04-10

2005-12-14

2005-09-15

2005-07-27

2004-12-24

2004-06-07

2004-05-21

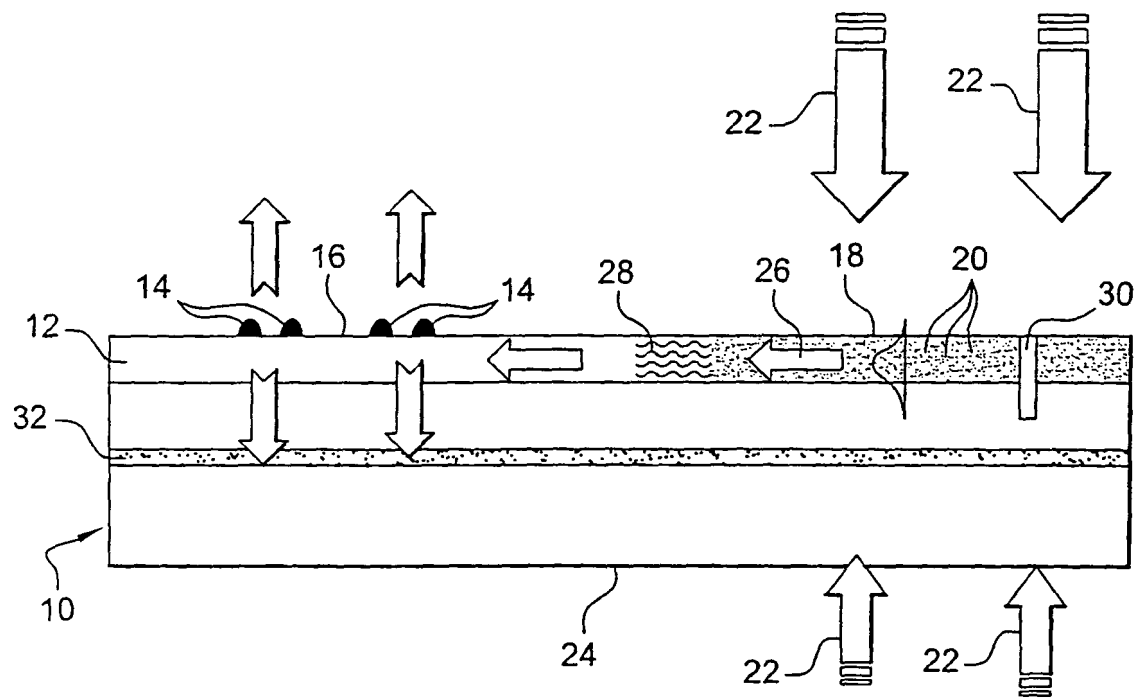
2004-05-07

Abstract

(EP1556681)

The invention concerns a device for supporting chromophoric elements for executing a fluorescence in response to a light-induced excitation, said device comprising a substrate (10) whereof a surface layer (12) bearing the chromophoric elements (14) forms a planar waveguide and contains photoluminescent constituents (20) which emit a guided luminescence at wavelengths exciting the chromophoric elements (14) when they are excited by a primary excitation light (22) illuminating the surface layer (12). The invention is in particular applicable to biochip-type devices.

Images



Family 10/20 - FAMPAT - ©Questel

Title

(EP3658900)

Optical rejection photonic structures

Publication numbers

JP2020529005

BR112020000799

EP3658900

CN111133294

KR10-2020-0028474

IN202017002818

AU2018307742

BR112020000799

TW201920941

CA3069974

WO2019/023146

US20190025511

Publication dates

2020-10-01

2020-07-14

2020-06-03

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2020-01-30

2020-01-28

2019-06-01

2019-01-31

2019-01-31

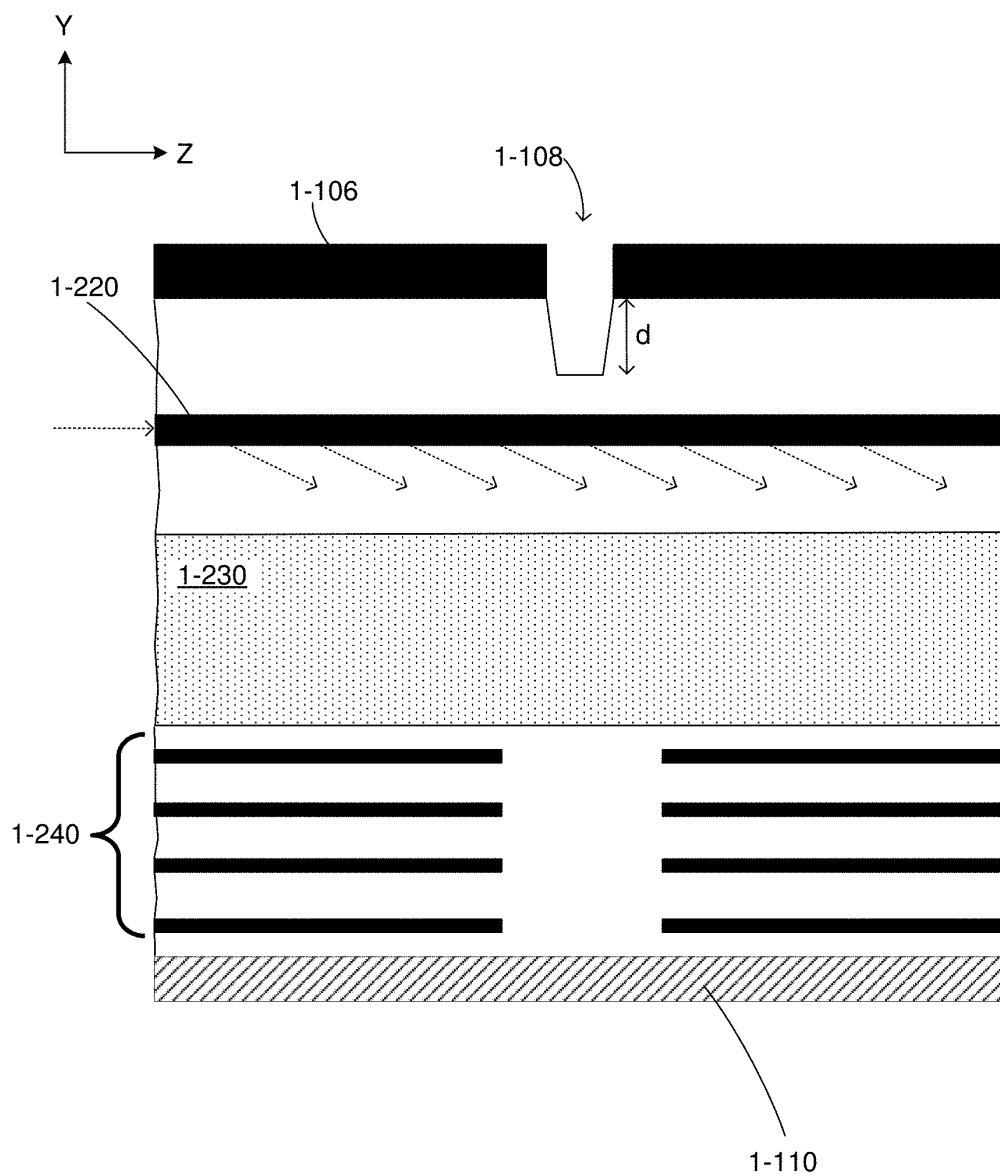
2019-01-24

Abstract

(EP3658900)

An integrated device and related instruments and systems for analyzing samples in parallel are described. The integrated device may include sample wells arranged on a surface of where individual sample wells are configured to receive a sample labeled with at least one fluorescent marker configured to emit emission light in response to excitation light. The integrated device may further include photodetectors positioned in a layer of the integrated device, where one or more photodetectors are positioned to receive a photon of emission light emitted from a sample well. The integrated device further includes one or more photonic structures positioned between the sample wells and the photodetectors, where the one or more photonic structures are configured to attenuate the excitation light relative to the emission light such that a signal generated by the one or more photodetectors indicates detection of photons of emission light.

Images



Family 11/20 - FAMPAT - ©Questel

Title

(US4703182)

Arrangement for fluorescence-optical measurement of concentrations of substances contained in a sample

Publication numbers

JP1950704

JP6078982

DE3532563

US4703182

AT383684

ATA295584

JPS6177745

DE3532563

Publication dates

1995-07-10

1994-10-05

1988-06-23

1987-10-27

1987-08-10

1986-12-15

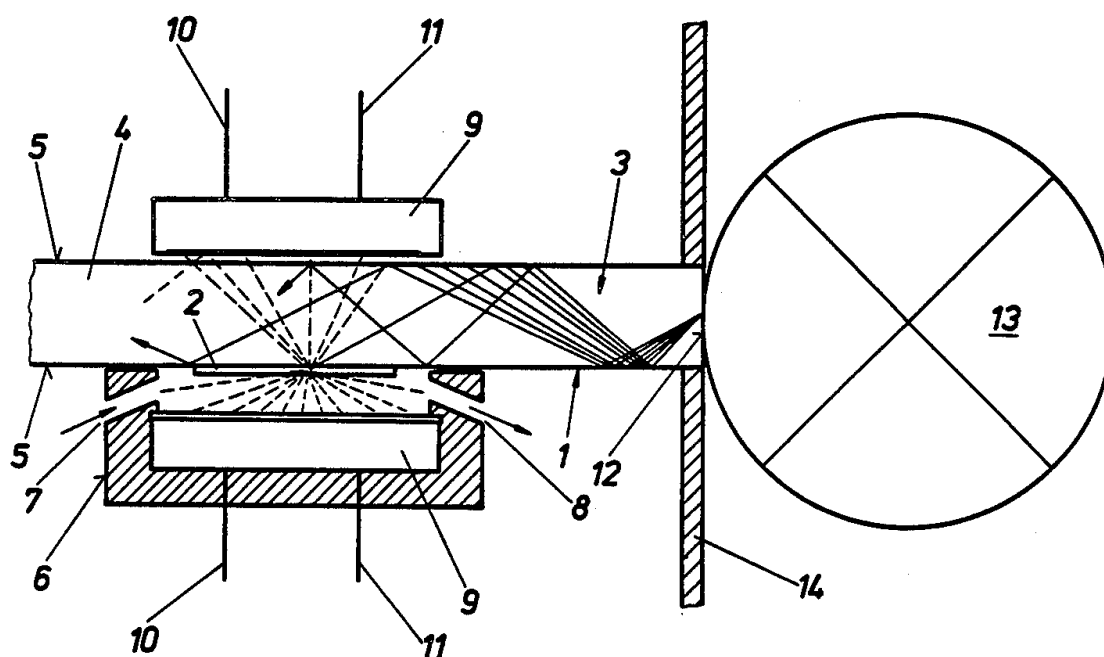
1986-04-21

1986-03-27

Abstract

(US4703182)

An arrangement for the fluorescence-optical measurement of concentrations of substances contained in a sample includes a detector, a light source and a sensor element that includes a carrier element, the carrier element having an indicator layer on a portion thereof and an indicator-free surface, the carrier element being transparent to the radiation used, and having a refractive index which is greater than that of the ambient medium at the indicator-free surface, the light space being positioned such that the transmission of light from the light source to the indicator layer, and from there to the detector, is achieved, at least partially, by total reflection in the carrier element.

Images

Family 12/20 - FAMPAT - ©Questel

Title

(EP2221606)

Integrated bio-chip and method of fabricating the integrated bio-chip

Publication numbers

US8921280

EP2221606

EP2221606

US20100204064

Publication dates

2014-12-30

2012-06-06

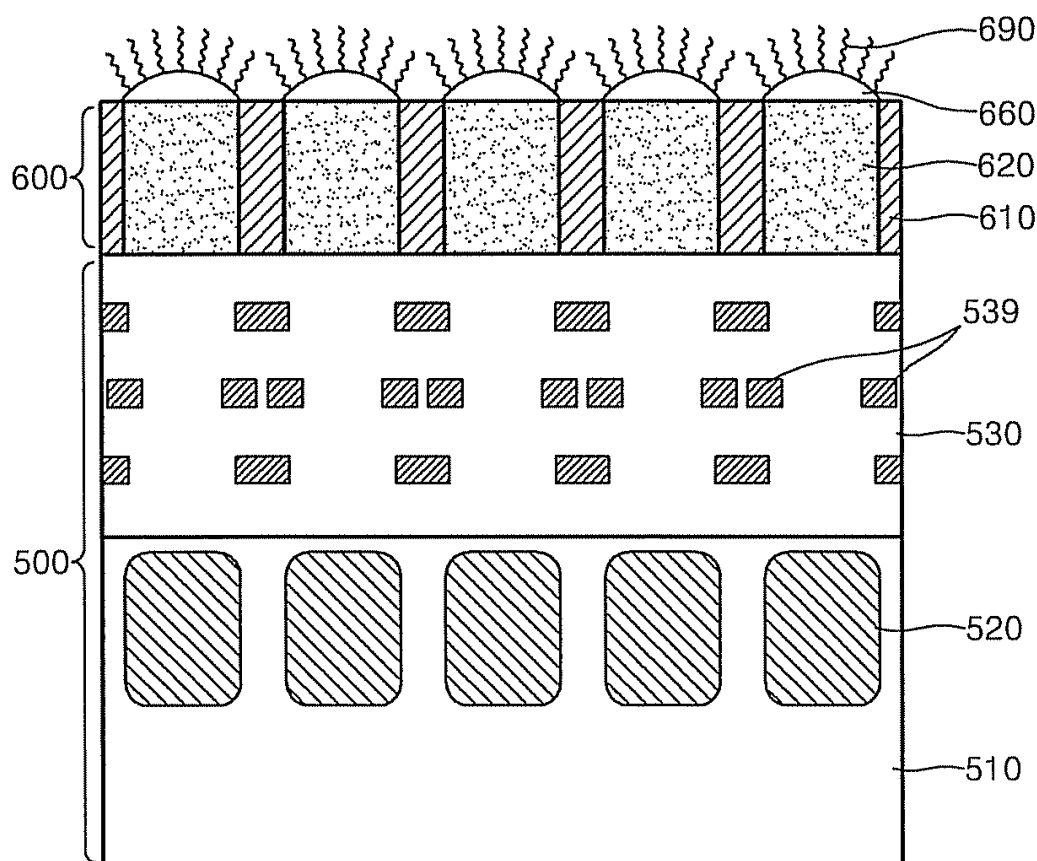
2010-08-25

2010-08-12

Abstract

(EP2221606)

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.

Images

Family 13/20 - FAMPAT - ©Questel

Title

(EP2746739)

Sensor device including one or more metal-dielectric optical filters

Publication numbers

TW202028723

US10670455

KR10-2106624

TWI692632

KR10-2020-0026237

KR10-2086108

KR10-2019-0112697

KR10-2027556

US10378955

KR10-2019-0089142

KR10-2004532

CN109620253

TWI654749

US10222523

CN103884696

US10197716

TW201901139

TWI638155

US20170227695

US20170191870

US20170191871

US20170068025

US9568362

US9448346

US20150369980

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CN103884696

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US20140168761

US20140170765

Publication dates

2020-08-01

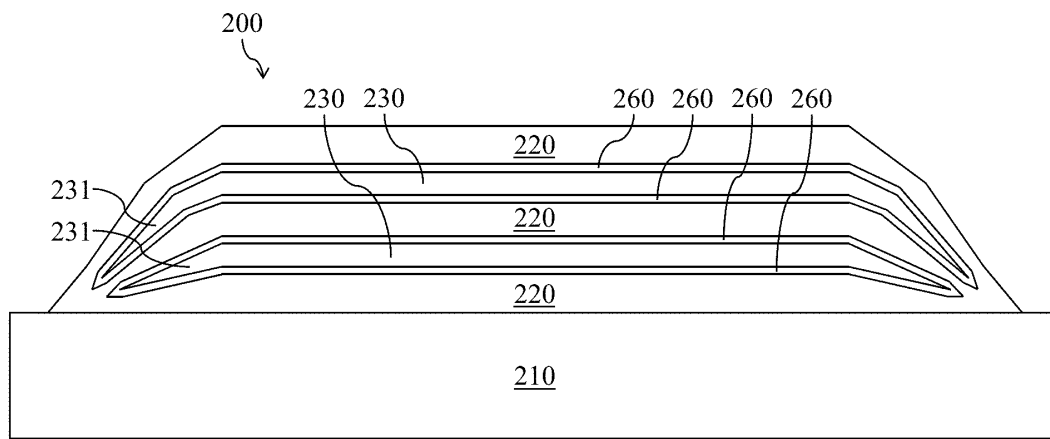
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2014-06-19

Abstract

(EP2746739)

A sensor device including one or more sensor elements and one or more optical filters (100) is provided. The one or more optical filters each include a plurality of dielectric layers (120) and a plurality of metal layers (130) stacked in alternation. The metal layers are intrinsically protected by the dielectric layers. In particular, the metal layers have tapered edges that are protectively covered by one or more of the dielectric layers.

Images



Family 14/20 - FAMPAT - ©Questel

Title

(US9029800)

Compact analyzer with spatial modulation and multiple intensity modulated excitation sources

Publication numbers

US9029800

US20130037726

Publication dates

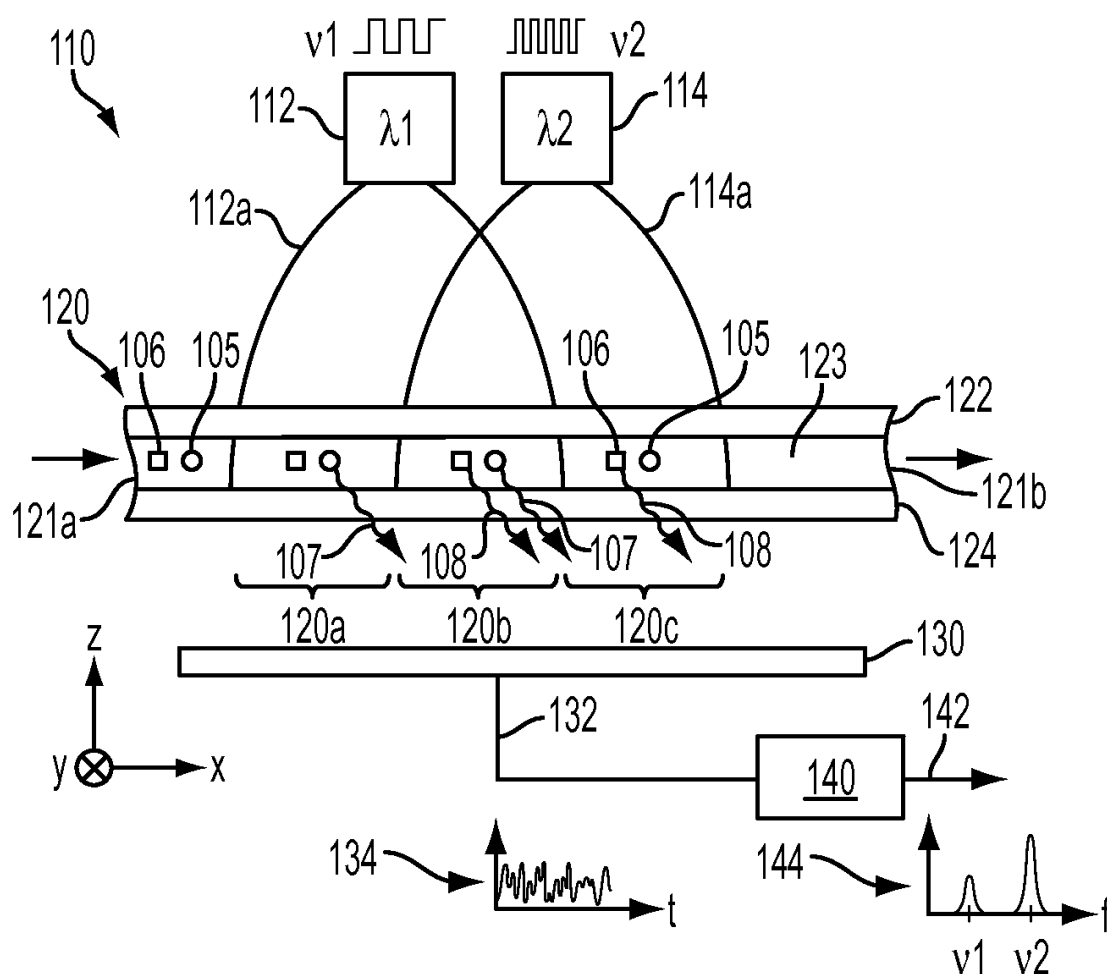
2015-05-12

2013-02-14

Abstract

(US20130037726)

A compact analyzer includes a flow cell having a flow channel through which a sample is made to pass. First and second light sources are arranged to emit first and second excitation light into first and second overlapping portions of the flow channel, respectively. The first excitation light stimulates a first light emission from particles of a first particle type that may be present in the sample; the second excitation light stimulates a second light emission from particles of a second particle type. A detector receives the first and second light emission from the corresponding particles present in the sample in a detection portion of the flow channel, and provides a detector output based on the received light emission. The light sources are modulated at different frequencies so that a frequency analysis of the detector output can provide separate information about the first and second particle types.

Images

Family 15/20 - FAMPAT - ©Questel

Title

(EP1337847)

A label-free high-throughput optical technique for detecting biomolecular interactions

Publication numbers

US8580578

US8293542

US8247240

CA2427689

US8101423

JP4851582

EP2402739

EP2383580

NZ569311

US20110201132

CA2539187

US7935520

US7927822

EP2284537

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NZ577455

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EP2204652

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EP1468291

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AT455303

EP1468290

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US20090264314

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JP4202140

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US20060281077
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US20020127565
CA2427689
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WO02/59602

Publication dates

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2011-10-28
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2007-01-02

2006-12-26

2006-12-21

2006-12-14

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2006-09-05

2006-08-22

2006-08-17

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2006-07-04

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2006-02-09

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2005-04-07

2005-04-07

2004-10-20

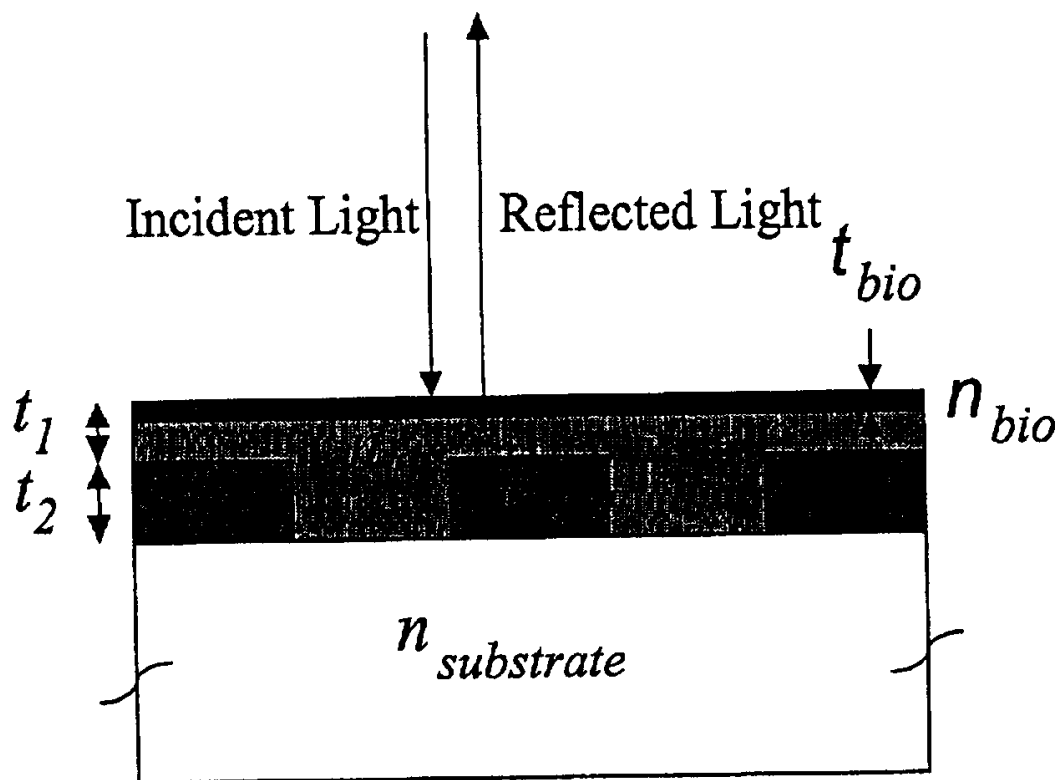
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2002-08-08
2002-08-06
2002-08-01

Abstract

(EP1337847)

Methods and compositions are provided for detecting biomolecular interactions. The use of labels is not required and the methods can be performed in a high-throughput manner. The invention also provides optical devices useful as narrow band filters.

Images



Family 16/20 - FAMPAT - ©Questel

Title

(WO2012105945)

Apparatus and method for performing spectroscopy

Publication numbers

US20130271759

TW201239341

WO2012/105945

Publication dates

2013-10-17

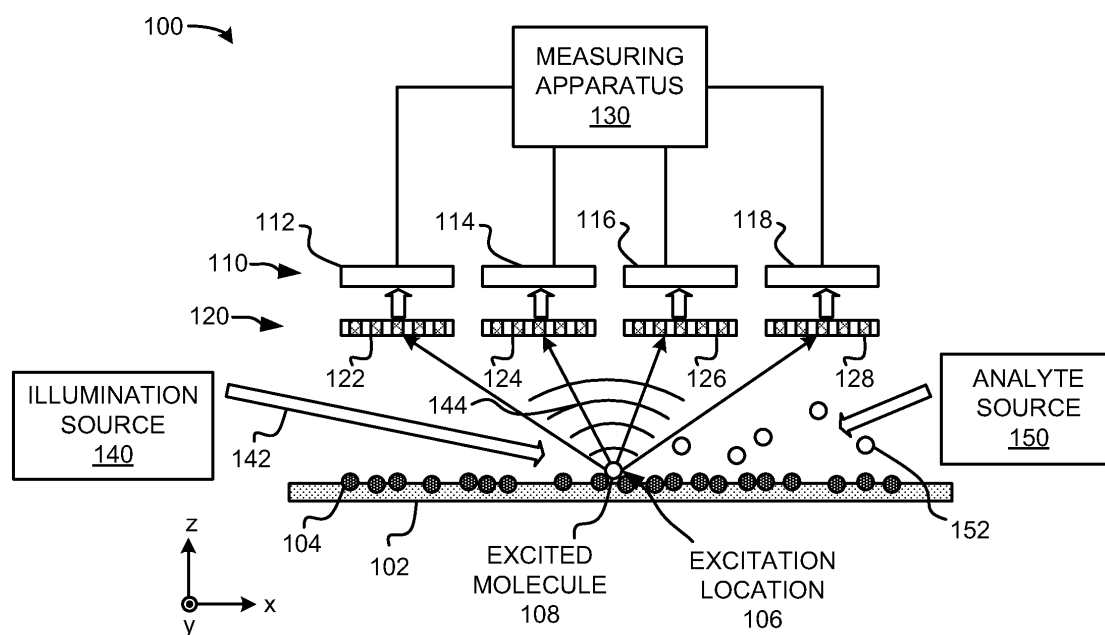
2012-10-01

2012-08-09

Abstract

(WO2012/105945)

An apparatus (100) for performing spectroscopy includes a substrate (102), a photodetector (112) positioned at a distance with respect to the substrate (102), and a plurality of sub-wavelength grating (SWG) filters (122-128) positioned between the substrate (102) and the photodetector (112), in which the SWG filters (122-128) are to filter different ranges of predetermined wavelengths of light emitted from an excitation location (106) prior to being emitted onto the photodetector (112).

Images

Family 17/20 - FAMPAT - ©Questel

Title

(US7349093)

Fluorescence measurement apparatus

Publication numbers

JP4701739

CN100533125

US7349093

US20070002325

JP2006226803

CN1821753

Publication dates

2011-06-15

2009-08-26

2008-03-25

2007-01-04

2006-08-31

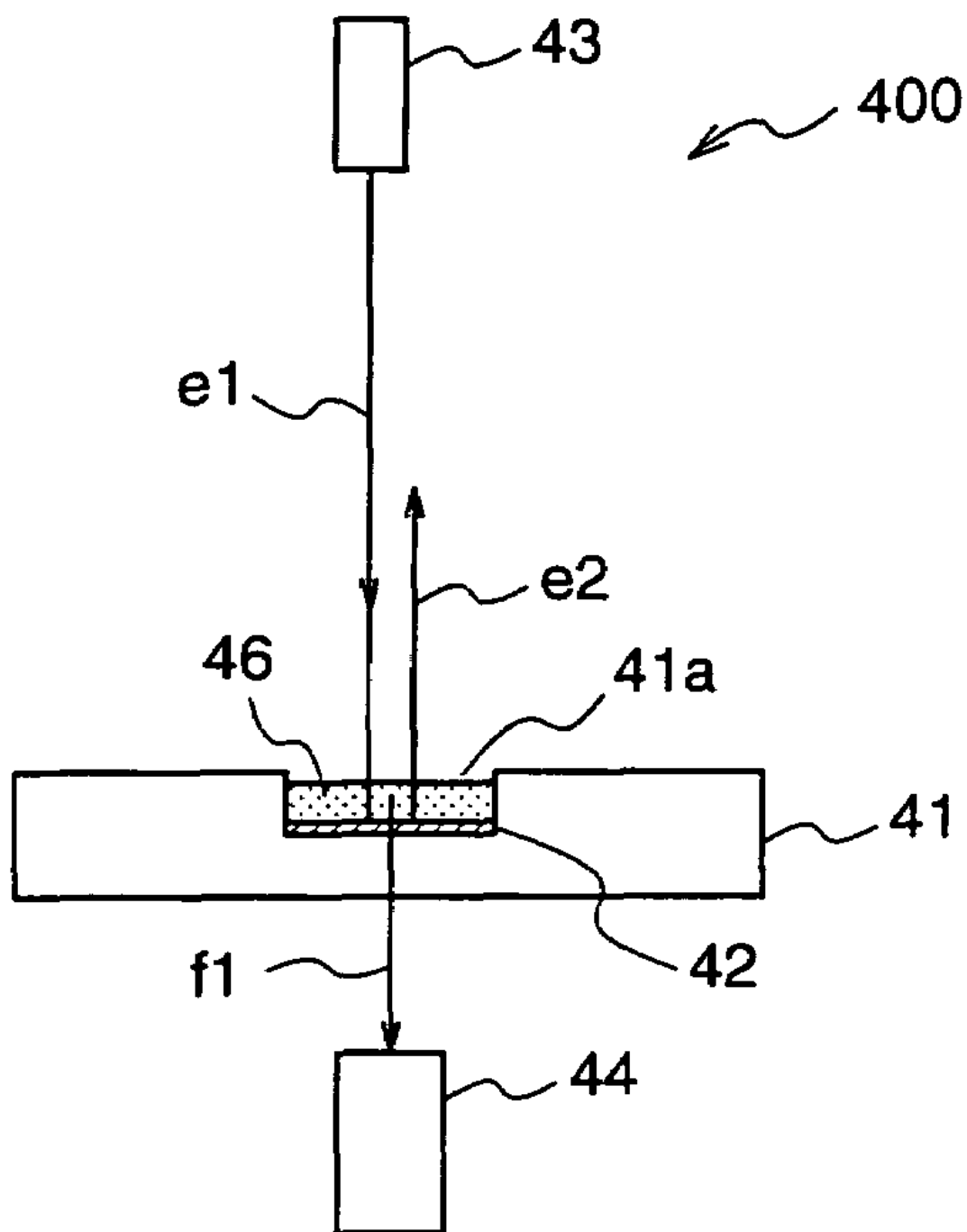
2006-08-23

Abstract

(US20070002325)

On a substrate 41 holding a sample to be detected, a dielectric multilayer 42 is disposed which reflects excitation light e 1 supplied from above the substrate 41 and transmits fluorescence f 1 emitted from the sample, and the excitation light e 1 is reflected at the dielectric multilayer 42 while the transmitted fluorescence f 1 is detected by a light receiving unit 44 , thereby providing a fluorescence measurement apparatus which can resolve a problem of reduction in detection sensitivity due to autofluorescence from the substrate or leakage of the excitation light from a light receiving filter, and which can detect the sample with high sensitivity.

Images



Family 18/20 - FAMPAT - ©Questel

Title

(US8466437)

High resolution fluorescence detection system

Publication numbers

US8466437

US20120273695

Publication dates

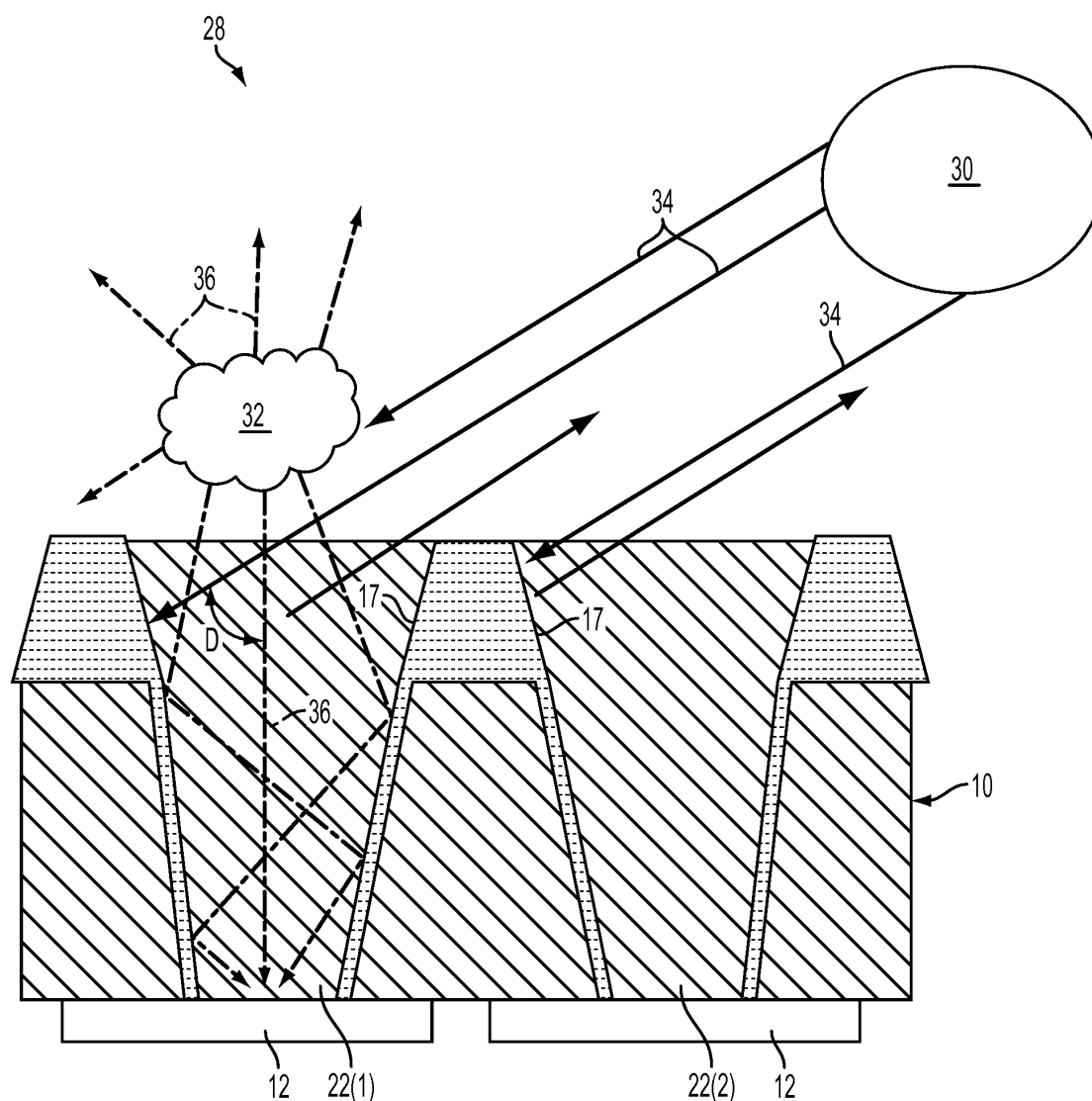
2013-06-18

2012-11-01

Abstract

(US20120273695)

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.

Images

Family 19/20 - FAMPAT - ©Questel

Title

(EP2264439)

Fluorometer with low heat-generating light source

Publication numbers

US20120183968

JP4846152

US20110207142

US7968856

EP2264439

EP2264439

US20090230323

US20080212090

DE60039062

EP1228357

US6852986

JP2003514223

EP1228357

AU1655901

WO01/35079

Publication dates

2012-07-19

2011-12-28

2011-08-25

2011-06-28

2011-01-19

2010-12-22

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2008-09-04

2008-07-10

2008-05-28

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2001-06-06

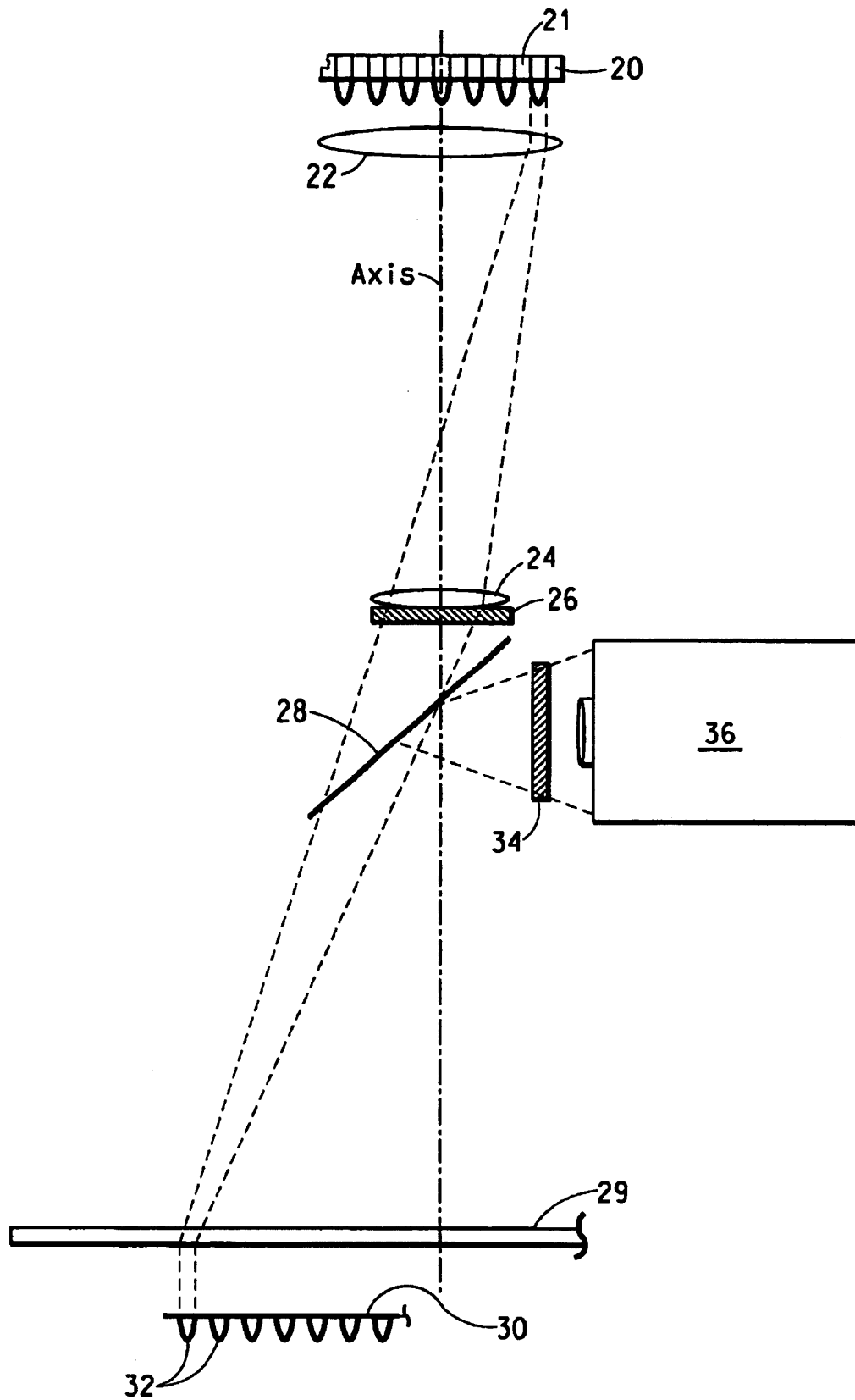
2001-05-17

Abstract

(EP2264439)

A combined fluorometer and thermal cycler, comprising: a plurality of low heat-generating light sources (20); a plurality of containers (32) having caps; means for positioning said plurality of containers into optical communication with said plurality of light sources (20), wherein each of said light sources (20) communicates with one of said containers; a thermally controlled base in close contact with said plurality of containers and a thermally controlled cover having a plurality of apertures, wherein each of said apertures corresponds with one of said containers (32) and expands outward from said cap of said corresponding container (32); a first optical path means for guiding light from said plurality of light sources to said plurality of containers; an optical signal sensing means (36) in optical communication with said plurality of containers (32); a second optical path means for guiding emitted light from any sample in said plurality of containers (32) to said optical signal sensing means (36); and programmable control means (500) for controlling the temperature of said plurality of containers (32) according to a selected protocol.

Images



Family 20/20 - FAMPAT - ©Questel

Title

(US20180341649)

Biosensors for biological or chemical analysis and systems and methods for same

Publication numbers

US20180341649

US9990381

US9020901

US20150079596

US8906320

US20130275382

Publication dates

2018-11-29

2018-06-05

2015-04-28

2015-03-19

2014-12-09

2013-10-17

Abstract

(US20180341649)

A biosensor is provided including a detection device and a flow cell mounted to the detection device. The detection device has a detector surface with a plurality of reaction sites. The detection device also includes a filter layer that is configured to at least one of (a) filter unwanted excitation light signals; (b) direct emission signals from a designated reaction site toward one or more associated light detectors that are configured to detect the emission signals from the designated reaction site; or (c) block or prevent detection of crosstalk emission signals from adjacent reaction sites.

Images

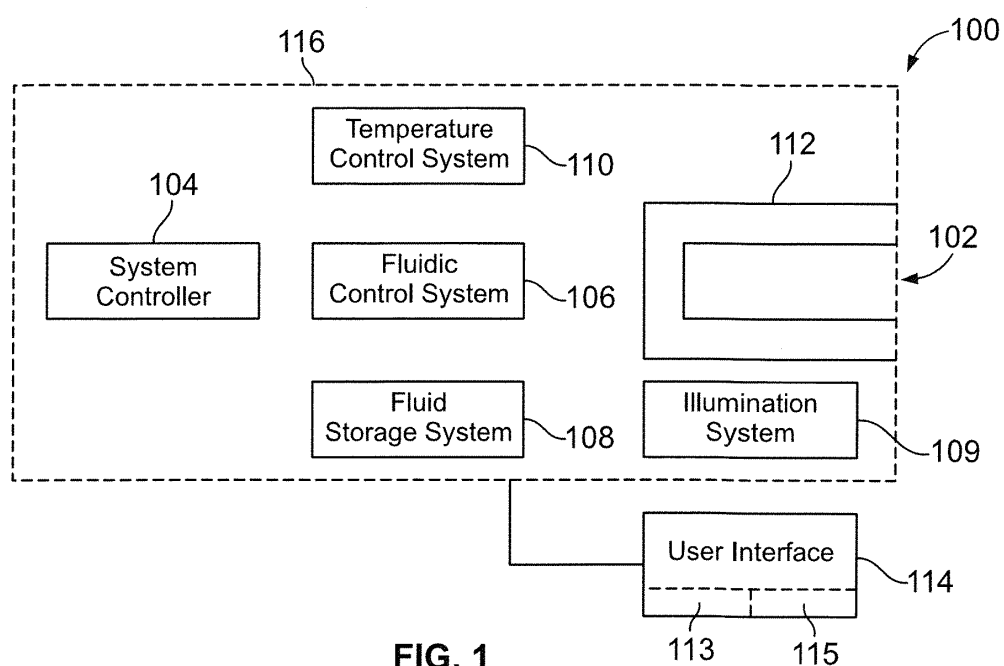


FIG. 1

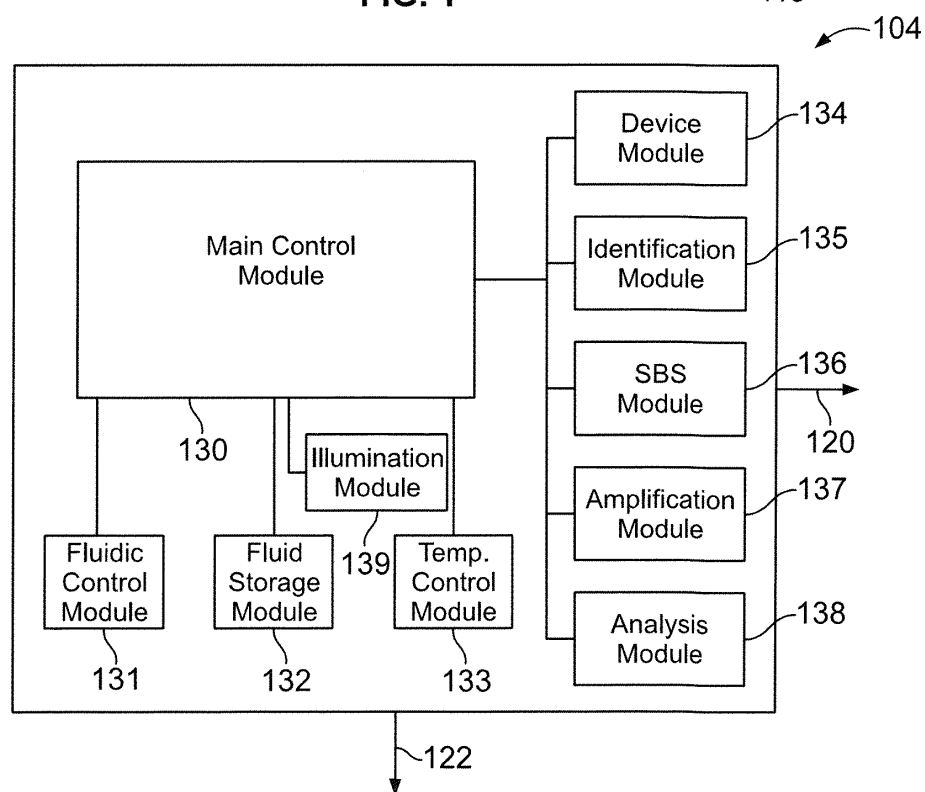


FIG. 2