

10 Documents

Publication numbers	Title	Current assignees
NL2008632 C	Mobile device and method for analysing breath samples	ENOSE HOLDING
EP3106872 A1	A breath analyser device and a related method	AUTOLIV
GB201420647 D0	A breath analyser device	VEONEER SWEDEN
SE201051175 A1	Multifunctional breath analyzer	HOK INSTRUMENT
NL2008737 C	Closing element for closing a container for samples for analysis	ENOSE HOLDING
US20070203448 A1	System and method for monitoring health using exhaled breath	UNIVERSITY OF FLORIDA RESEARCH FOUNDATION
WO200364994 A2	Methods of collecting and analyzing human breath	NANOTHERAPEUTICS
WO200295398 A1	Method and apparatus for detecting environmental smoke exposure	UNIVERSITY OF CENTRAL FLORIDA RESEARCH FOUNDATION
US20050054942 A1	System and method for real-time diagnosis, treatment, and therapeutic drug monitoring	UNIVERSITY OF FLORIDA
CN103969428 A	Portable electronic device with breath analyzer	SENSIRION

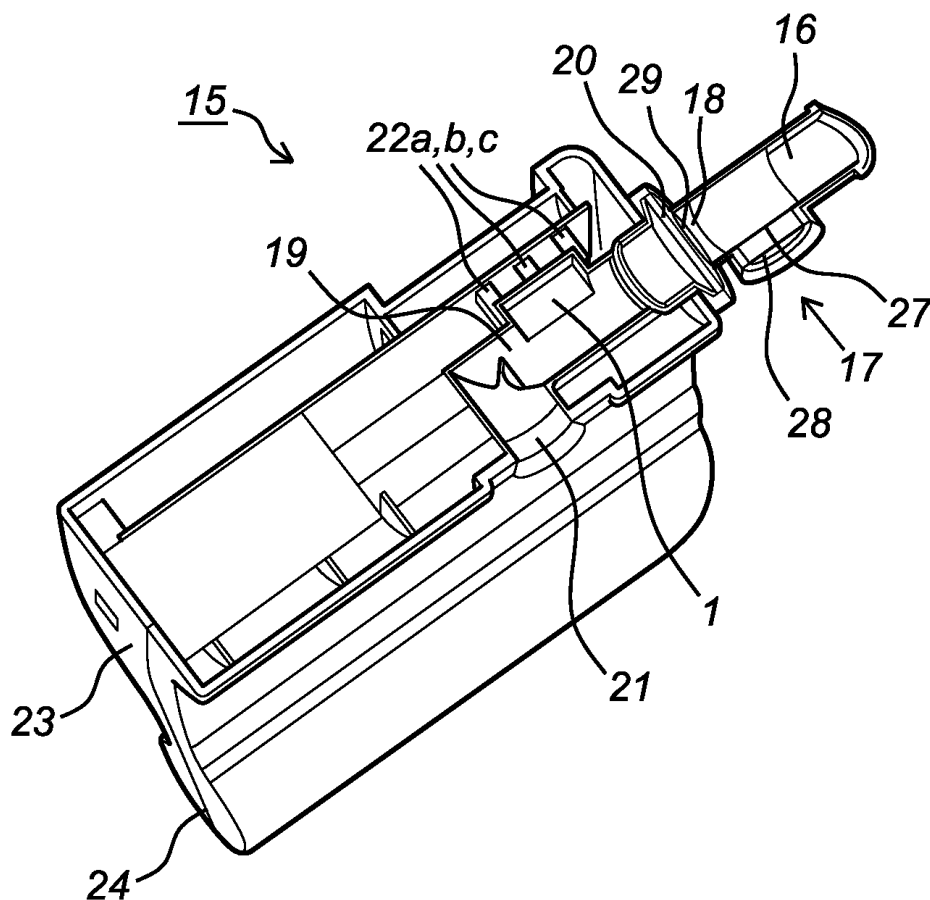
Family 1/10 - FAMPAT - ©Questel

Title

(EP2839271)

Mobile device and method for analysing breath samples

Images



Publication data including kind & date

NL2008632	C	2013-10-16	NL2008632
WO2013154431	A2	2013-10-17	WO2013154431
WO2013154431	A3	2014-07-03	WO2013154431
EP2839271	A2	2015-02-25	EP2839271
US20150105683	A1	2015-04-16	US20150105683
ZA201407172	B	2016-05-25	ZA201407172



Abstract

(EP2839271)

Disclosed is a mobile device (15) for analysing breath samples, comprising: - at least one mouthpiece (16) provided with at least one inlet opening (17) and at least one outlet opening (21) for allowing a person to respectively inhale and exhale via the mouthpiece, - at least one air filter (20) connected to the mouthpiece for filtering ambient air to be inhaled by the person, - at least one analysis compartment (19) connecting to the outlet opening of the mouthpiece and provided with at least one chemical trace detector (1), wherein the chemical trace detector comprises: at least one semi-conducting sensor(2); at least one heating element (4) for heating the semi-conducting sensor; at least one processor (6) for controlling the heating element; and a detection circuit (7) for detecting the change in resistance of the semi- conducting sensor which is at least partially determined by the presence of at least one chemical trace which reacts in the presence of the semi-conducting sensor.

Inventors

BOS ALBERT

Latest standardized assignees - inventors removed

ENOSE HOLDING

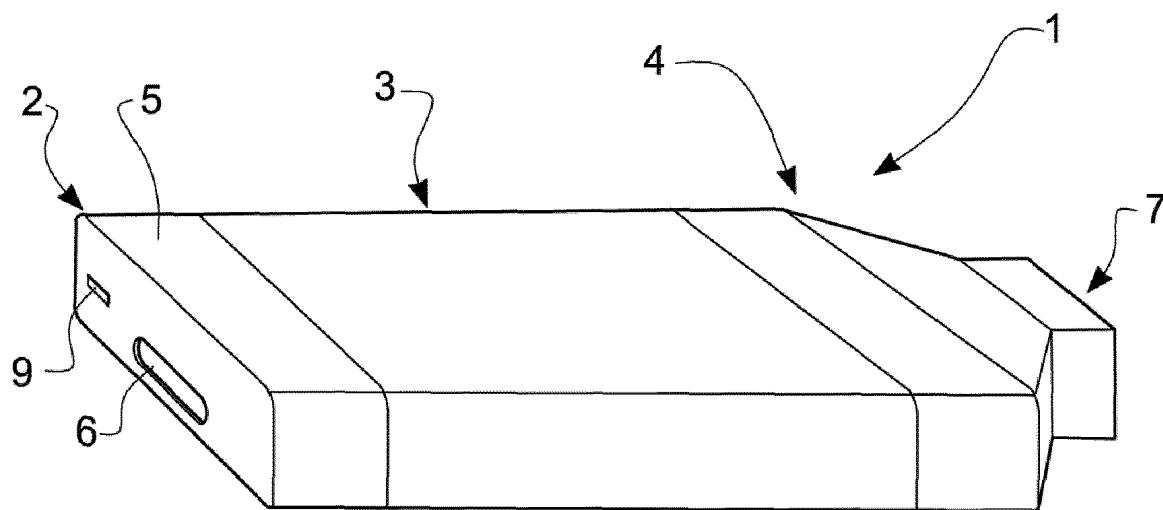
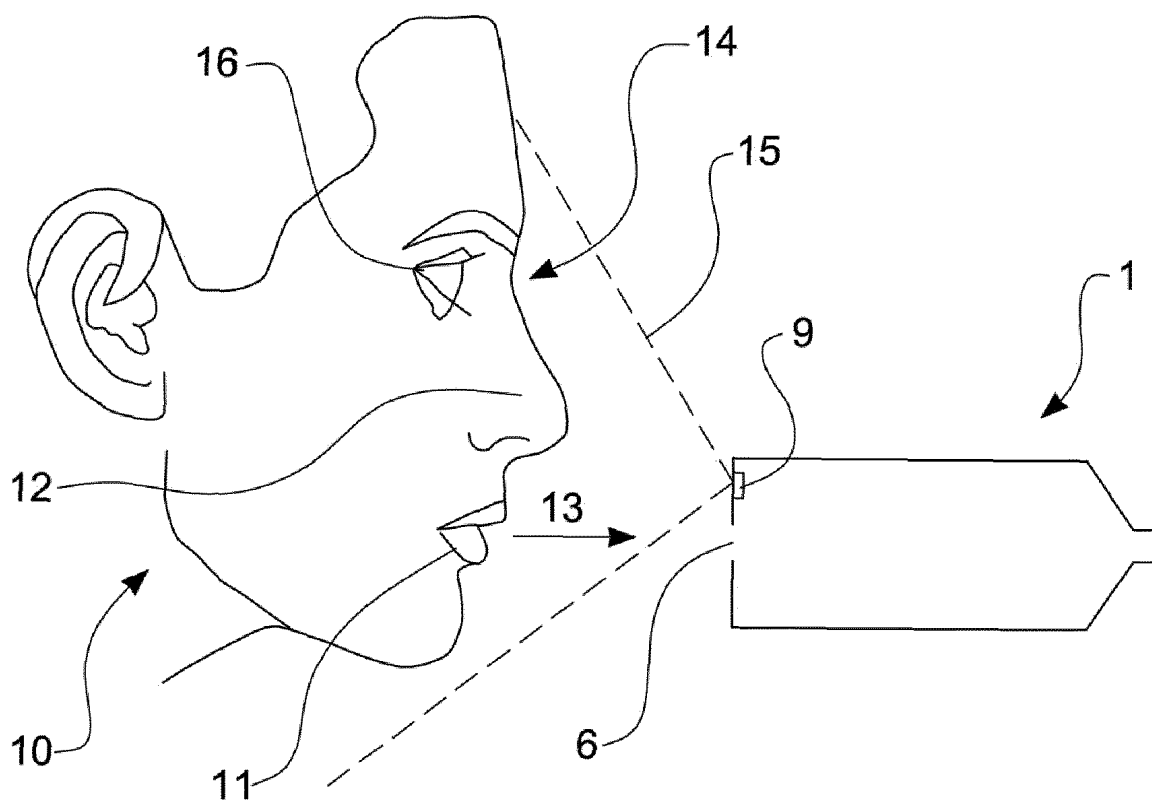
Family 2/10 - FAMPAT - ©Questel

Title

(EP3106872)

A breath analyser device and a related method

Images

FIG 1FIG 2**Publication data including kind & date**

EP3106872	A1	2016-12-21	EP3106872
EP3106872	B1	2017-08-09	EP3106872

**Abstract**

(EP3106872)

There is disclosed a tamper evident breath analyser device (1) having an inlet region (2) and a sensor arrangement, the inlet region (2) being configured to receive a breath sample from a test subject via an inlet port (6) and direct the sample to

the sensor arrangement, and the sensor arrangement being configured to provide a signal representative of the concentration of a volatile substance within said sample. The device (1) includes an imaging device (9) arranged and configured to capture images of a test subject's face (14) when the device (1) is in use and positioned to receive a breath sample from the test subject (10) via said inlet port (6). The device (1) also has a processor unit (22) operable to analyse said images and produce a signal indicative of an untampered breath sample in dependence on said analysis. An associated method is also disclosed.

Inventors

HÖK BERTIL

GESTER RAIMO

Latest standardized assignees - inventors removed

AUTOLIV

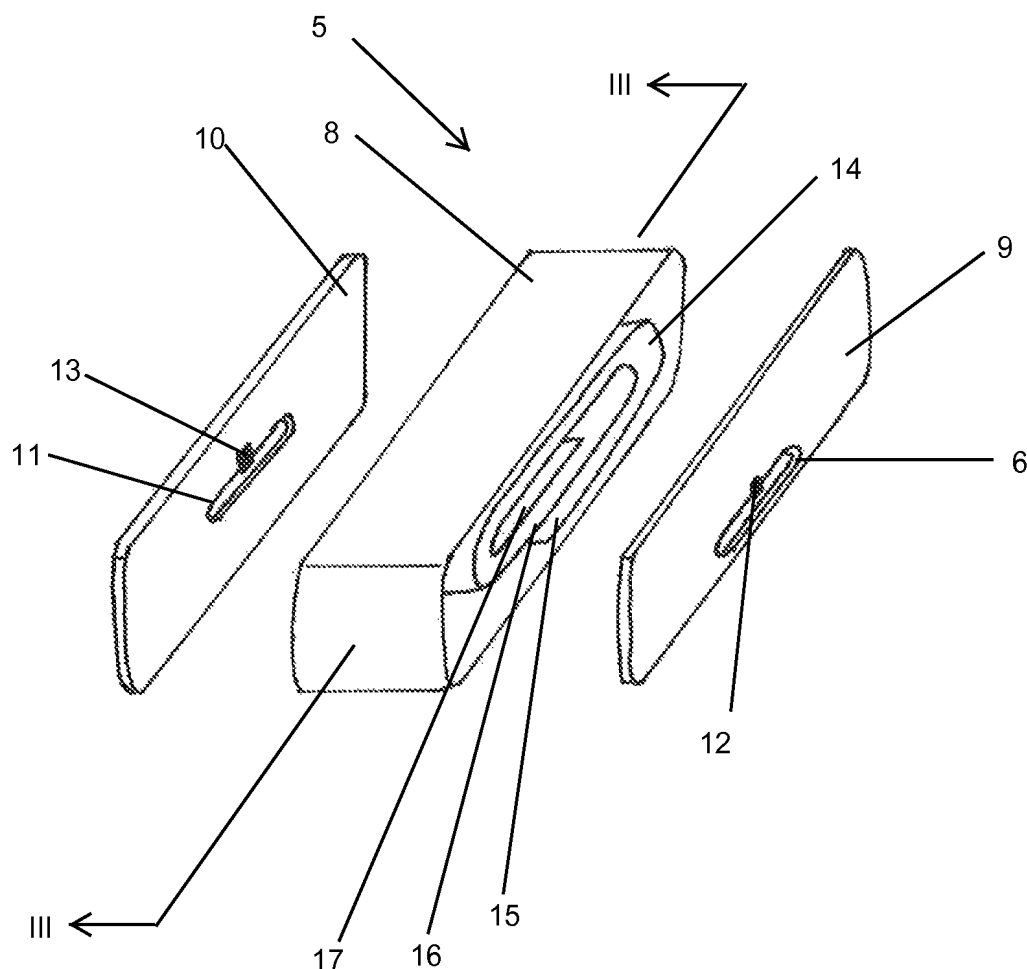
Family 3/10 - FAMPAT - ©Questel

Title

(WO201679106)

A breath analyser device

Images



Publication data including kind & date

GB201420647	D0	2015-01-07	GB201420647
GB2532480	A	2016-05-25	GB2532480
US20160146780	A1	2016-05-26	US20160146780
WO2016079106	A1	2016-05-26	WO2016079106
US9366665	B1	2016-06-14	US9366665



Abstract

(WO201679106)

There is disclosed a breath analyser device (1) having an inlet region (2) and a sensor arrangement (3), wherein the inlet region (2) is configured to receive a breath sample from a test subject and direct the sample to the sensor arrangement (3), and the sensor arrangement is configured to provide a signal representative of the concentration of a volatile substance within said sample. The inlet region (2) includes a heater (20, 24) arranged between: a sample inlet port (6) which is open to atmospheric air outside the device (1); and a sample outlet port (11) which is open to the sensor arrangement (3), the heater (20, 24) extending at least part way along a tortuous flow channel (18) which extends between the inlet port (6) and the outlet port (11) for the direction of said sample to the sensor arrangement (3).

Inventors

HÖK BERTIL

GRANSTAM MATHIAS

Latest standardized assignees - inventors removed

VEONEER SWEDEN

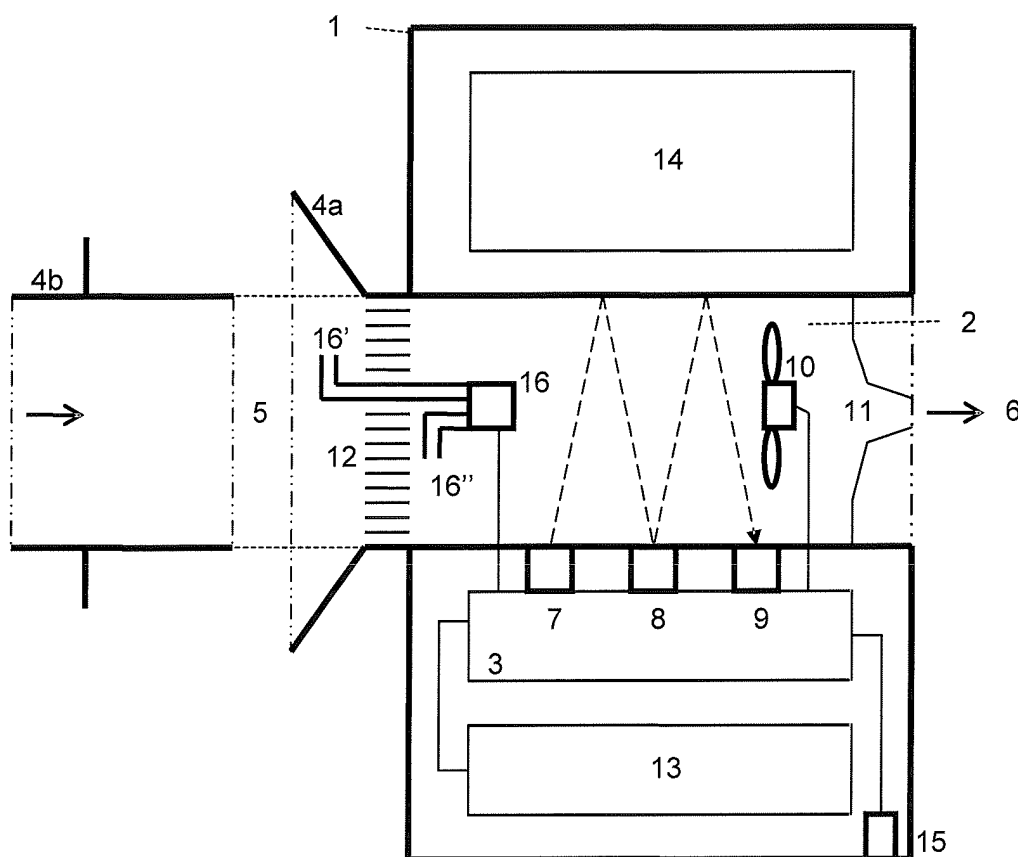
Family 4/10 - FAMPAT - ©Questel

Title

(EP2638390)

Multifunctional breath analyzer

Images



Publication data including kind & date

SE1051175	A1	2012-05-10	SE201051175				
WO2012064252	A1	2012-05-18	WO201264252				
SE535674	C2	2012-11-06	SE-535674				
US20130231871	A1	2013-09-05	US20130231871				
CN103299189	A	2013-09-11	CN103299189				
EP2638390	A1	2013-09-18	EP2638390				
KR20130140065	A	2013-12-23	KR20130140065				
JP2014500959	A	2014-01-16	JP2014500959				
CN103299189	B	2014-12-31	CN103299189B				
JP5921562	B2	2016-05-24	JP5921562				
EP2638390	A4	2016-12-21	EP2638390				
US9746454	B2	2017-08-29	US9746454				

Abstract

(EP2638390)

The present invention is concerned with a multifunctional breath analyzer which comprises a receptor unit for receiving a breath sample from a test subject, a sensing unit providing a signal corresponding to the concentration of at least one volatile substance within the sample, means for providing a signal indicative of the dilution of the breath sample, and an analyzing unit/ processing unit for the identification and quantification of the volatile substance of the breath sample. The signal processing unit is configured to perform at least two different calculations for the quantification, and the signal processing unit is also configured to automatically display the result of a selected calculation, the selection being based on the signal indicating dilution.

Inventors

HÖK BERTIL

TENERZ LARS

SMITH LEIF

KAISDOTTER ANDERSSON ANNIKA

Latest standardized assignees - inventors removed

HOK INSTRUMENT

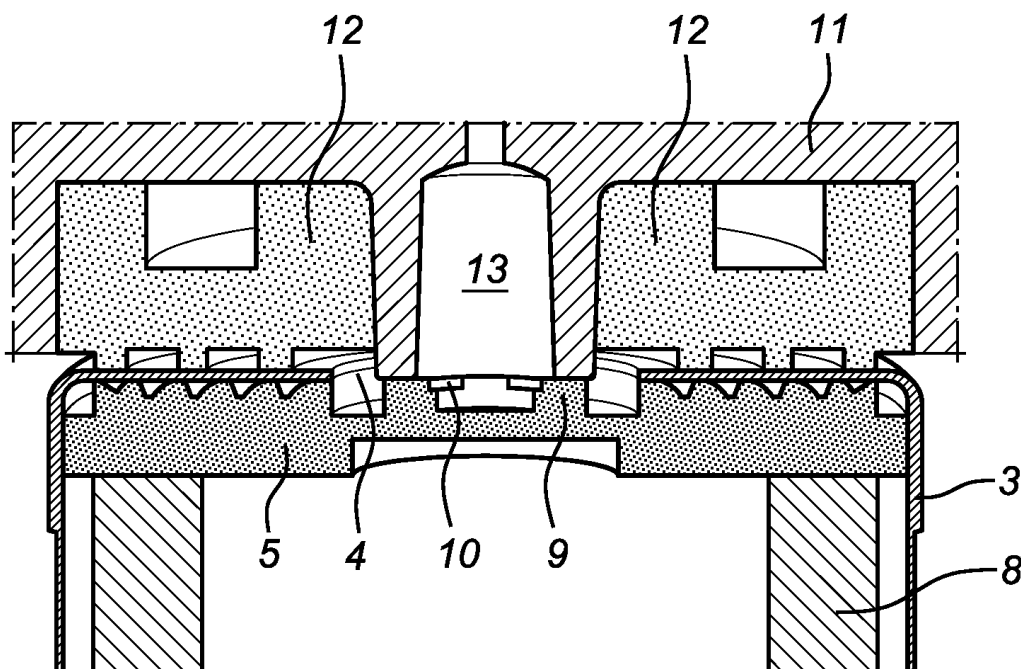
Family 5/10 - FAMPAT - ©Questel

Title

(EP2844732)

Closing element for closing a container for samples for analysis

Images



Publication data including kind & date

NL2008737	C	2013-11-04	NL2008737
WO2013165243	A1	2013-11-07	WO2013165243
EP2844732	A1	2015-03-11	EP2844732
US20150087015	A1	2015-03-26	US20150087015
US10046323	B2	2018-08-14	US10046323



Abstract

(EP2844732)

The application relates to a closing element for closing a container for samples for analysis, particularly biological samples. The application also relates to an assembly of a container and a closing element connected to the container. The application also relates to a device and method for analysing samples. The closure comprises a vent channel (6) with a bacterial filter (7), a penetrable element (5) and the vent channel is configured to be connected with an analyser and can be opened and closed.

Inventors

BOS ALBERT

Latest standardized assignees - inventors removed

ENOSE HOLDING

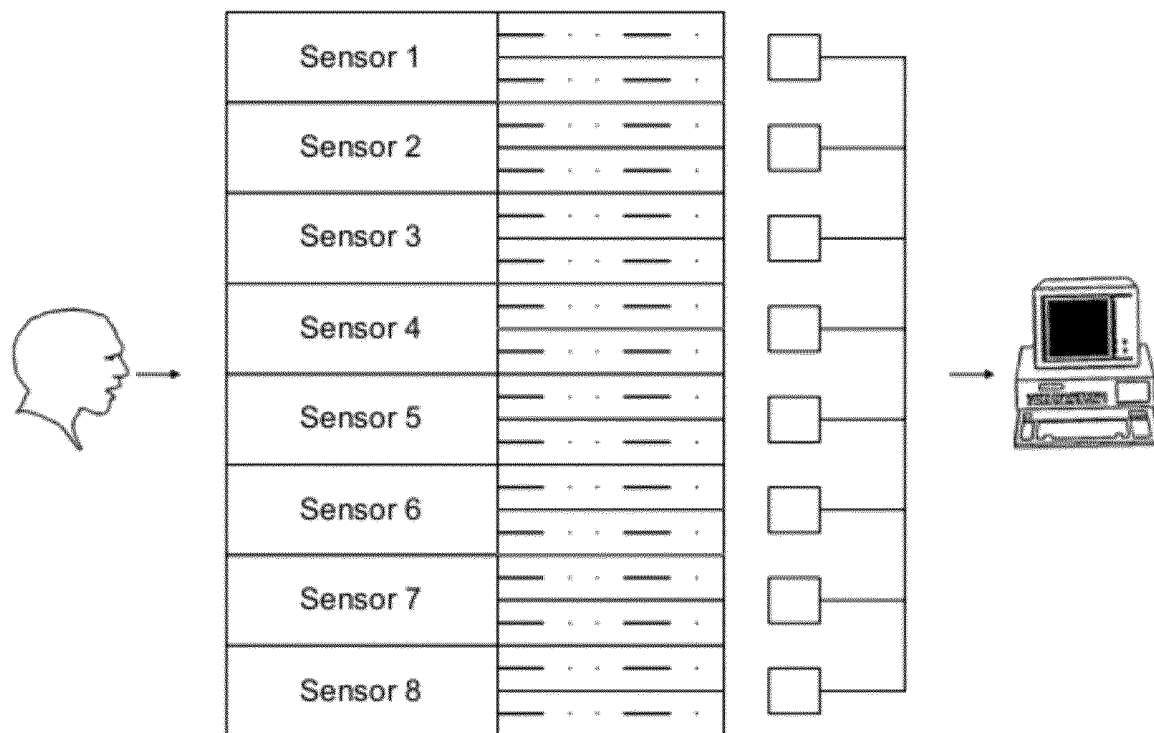
Family 6/10 - FAMPAT - ©Questel

Title

(US8211035)

System and method for monitoring health using exhaled breath

Images



Publication data including kind & date

US20070203448	A1	2007-08-30	US20070203448
US20120016252	A1	2012-01-19	US20120016252
US8211035	B2	2012-07-03	US8211035



Abstract

(US8211035)

The present invention includes systems and methods for monitoring endogenous compound concentration in blood by detecting markers, such as odors, upon exhalation by a patient, wherein such markers are the endogenous compound itself or result from the endogenous compound. In the case of olfactory markers, the invention preferably utilizes electronic sensor technology, such as the commercial devices referred to as “artificial” or “electronic” noses or tongues, to non-invasively monitor endogenous compound levels in blood. The invention further includes a reporting system capable of tracking endogenous compound concentrations in blood (remote or proximate locations) and providing the necessary alerts with regard to emergent or harmful conditions in a patient.

Inventors

MELKER RICHARD J
BJORAKER DAVID G
LAMPOTANG SAMSUN

Latest standardized assignees - inventors removed

UNIVERSITY OF FLORIDA RESEARCH FOUNDATION

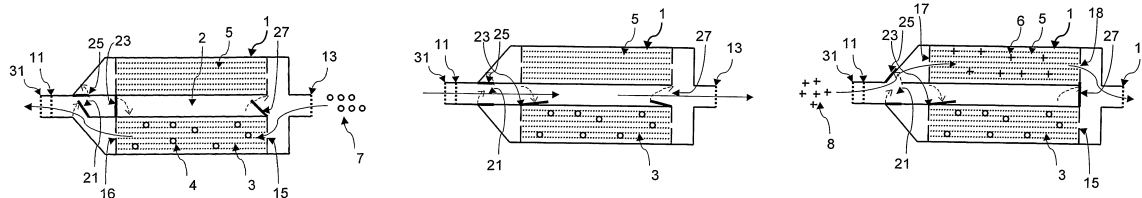
Family 7/10 - FAMPAT - ©Questel

Title

(WO200364994)

Methods of collecting and analyzing human breath

Images

**Publication data including kind & date**

WO03064994	A2	2003-08-07	WO200364994
AU2003207552	A1	2003-09-02	AU2003207552
WO03064994	A3	2003-12-18	WO200364994
US20050065446	A1	2005-03-24	US20050065446
US7153272	B2	2006-12-26	US7153272

**Abstract**

(WO200364994)

The present invention provides methods of collecting and detecting compounds in a human breath sample, comprising: exhaling into a handheld sample collector to absorb at least one breath compound in an exhaled breath collector of said collector; connecting the handheld sample collector to a breath analyzer; transferring the breath compounds from the exhaled breath collector of the sample collector into the breath analyzer; and detecting breath compounds using two or more sensors. The method may be performed to detect breath compounds for determining health or disease diagnosis, or for drug monitoring.

Inventors

TALTON JAMES D

Latest standardized assignees - inventors removed

NANOTHERAPEUTICS

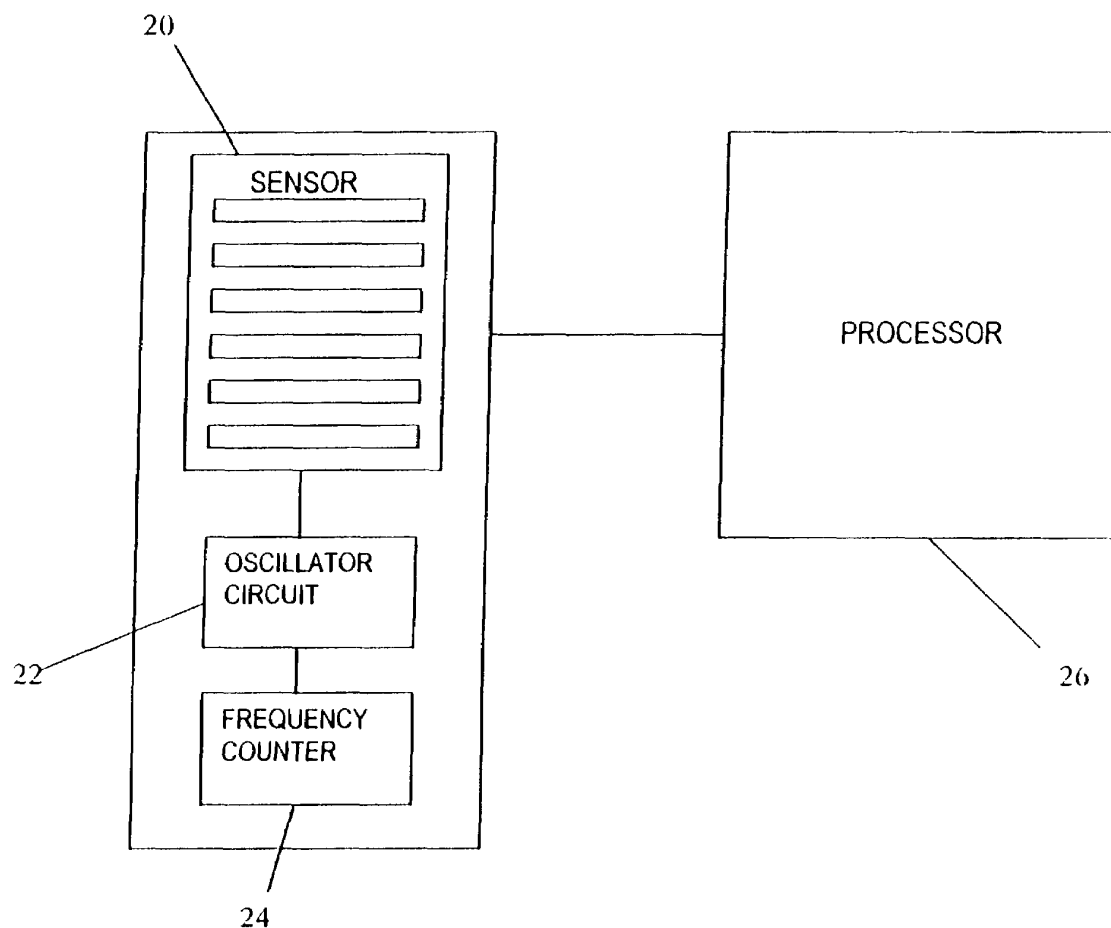
Family 8/10 - FAMPAT - ©Questel

Title

(EP1393069)

Method and apparatus for detecting environmental smoke exposure

Images



Publication data including kind & date

WO02095398	A1	2002-11-28	WO200295398
US20030004426	A1	2003-01-02	US20030004426
EP1393069	A1	2004-03-03	EP1393069
US7052468	B2	2006-05-30	US7052468



Abstract

(EP1393069)

The present invention includes a method and apparatus for detecting exposure to environmental tobacco smoke by analyzing a sample of breath using electronic sensor technology, including surface acoustic-wave gas sensor technology. The method determines the presence and concentration of substance(s) (or a class of substances) indicative of environmental smoke exposure. Diagnostic software is used to identify substances where a stored library of signatures is compared to the signature obtained from the system. Signal processing and neural networks are preferably utilized in the analysis.

Inventors

MELKER RICHARD J

GOLD MARK N

Latest standardized assignees - inventors removed

UNIVERSITY OF CENTRAL FLORIDA RESEARCH FOUNDATION

Family 9/10 - FAMPAT - ©Questel

Title

(EP1990639)

System and method for real-time diagnosis, treatment, and therapeutic drug monitoring

Images

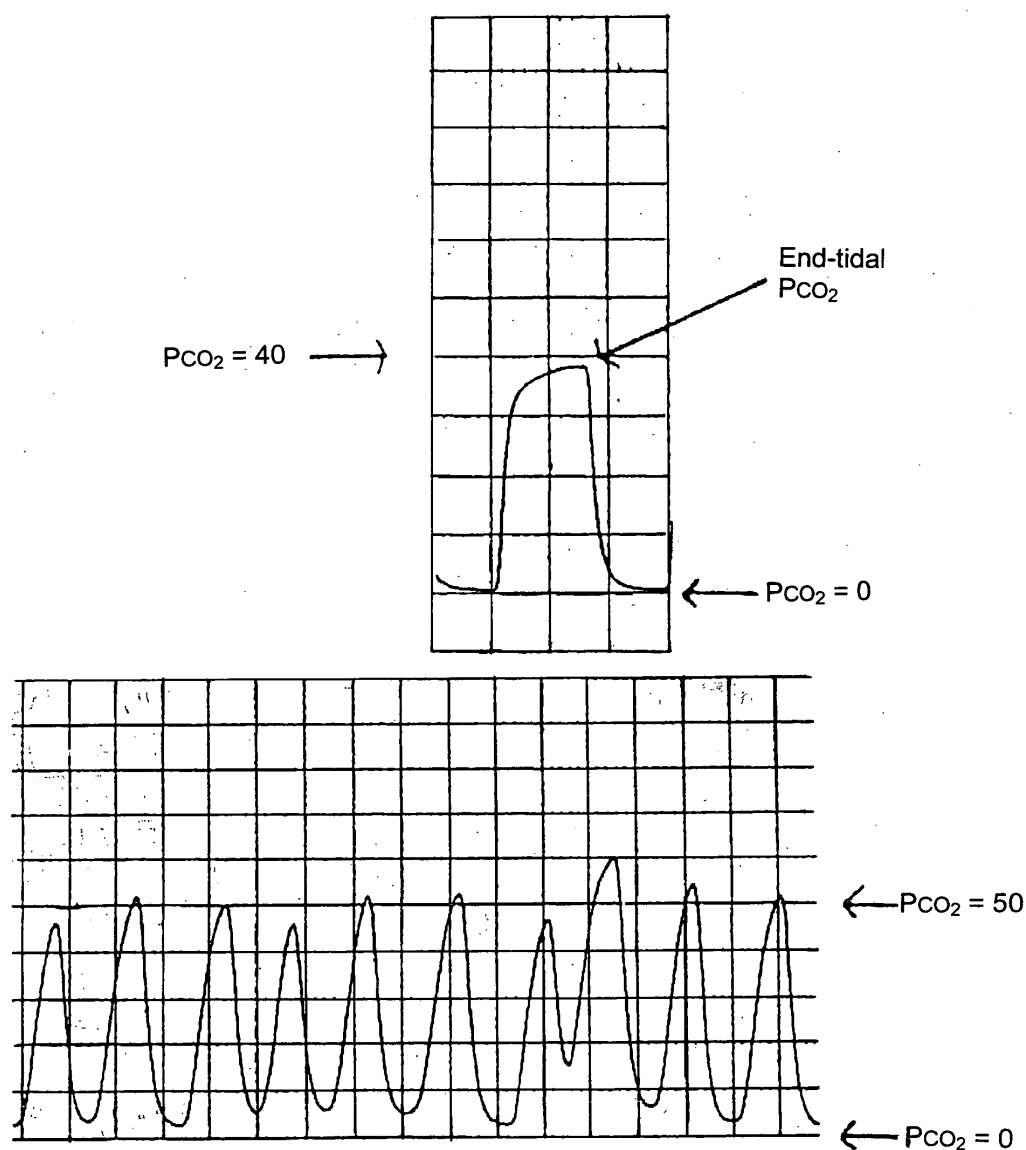


FIG. 1

Publication data including kind & date

US20050054942	A1	2005-03-10	US20050054942
WO2005098429	A2	2005-10-20	WO200598429
WO2005098429	A3	2006-05-26	WO200598429
EP1718971	A2	2006-11-08	EP1718971
US20070167853	A1	2007-07-19	US20070167853
JP2007525670	A	2007-09-06	JP2007525670
EP1990639	A1	2008-11-12	EP1990639



Abstract

(EP1990639)

Systems and methods for diagnosing and/or treating diseases as well as monitoring disease treatment. For diagnosis, the present invention uses nanoparticle-based assemblies, which comprise a nanoparticle; a surrogate marker; and a means for detecting a specific chemical entity. In certain embodiments, nanoparticle-based assemblies include a payload for simultaneous diagnosis and treatment of disease. In further embodiments, a therapeutic drug and therapeutic drug marker are administered to a patient to monitor disease treatment. Bodily fluid samples are analyzed using sensor technology to

detect the presence of surrogate and/or therapeutic drug markers to provide an efficient and accurate means for diagnosing a disease and/or monitoring disease treatment.

Inventors

MELKER RICHARD J

SACKELLARES JAMES CHRIS

GOLD MARK S

DENNIS DONN MICHAEL

MARTIN CHARLES R

STEWART JON D

Latest standardized assignees - inventors removed

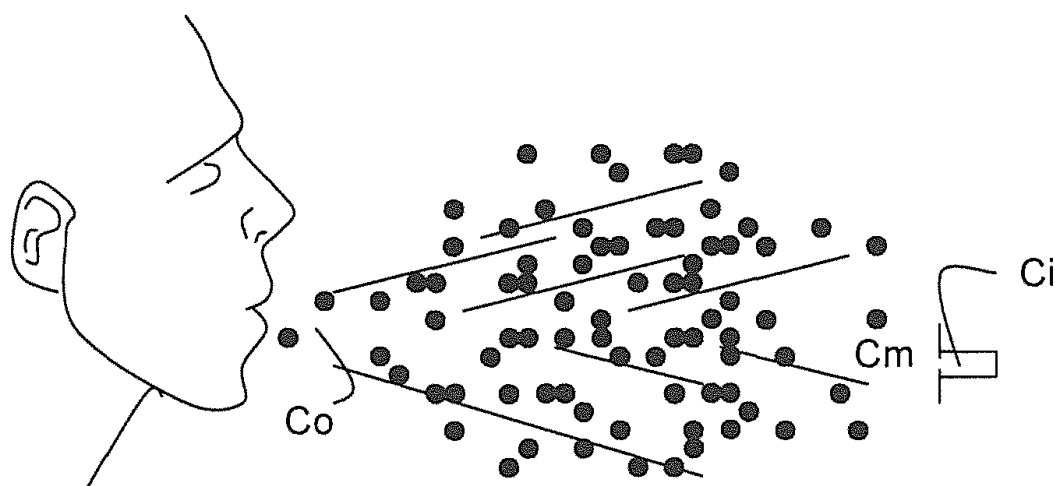
UNIVERSITY OF FLORIDA

Family 10/10 - FAMPAT - ©Questel

Title

(EP2762880)

Portable electronic device with breath analyzer

Images**Publication data including kind & date**

CN103969428	A	2014-08-06	CN103969428
EP2762880	A1	2014-08-06	EP2762880
US20140234172	A1	2014-08-21	US20140234172
US9562915	B2	2017-02-07	US9562915
EP2762880	B1	2017-03-15	EP2762880
CN103969428	B	2017-04-12	CN103969428B

**Abstract**

(EP2762880)

A breath analyzer is described with at least one chemical sensor (12,22) sensitive to the concentration of a component in a sample of exhaled breath including a compensator (24) for compensating for the effect of variations in the amount of exhaled breath between the user and the sensor location with the chemical sensor being integrated into a portable electronic device, particularly with the sensor being located in an air duct (11,21) with an opening (106,206) to the exterior of the housing of the analyser with the total area of the opening being sufficiently small to restrict effectively mass transport between the exterior and the sensor and/or wherein the compensation includes the compensation for different responses of sensors.

Inventors

BÜRGI LUKAS

MAYER FELIX

RÖCK FRANK

Latest standardized assignees - inventors removed

SENSIRION