

## 23 Documents

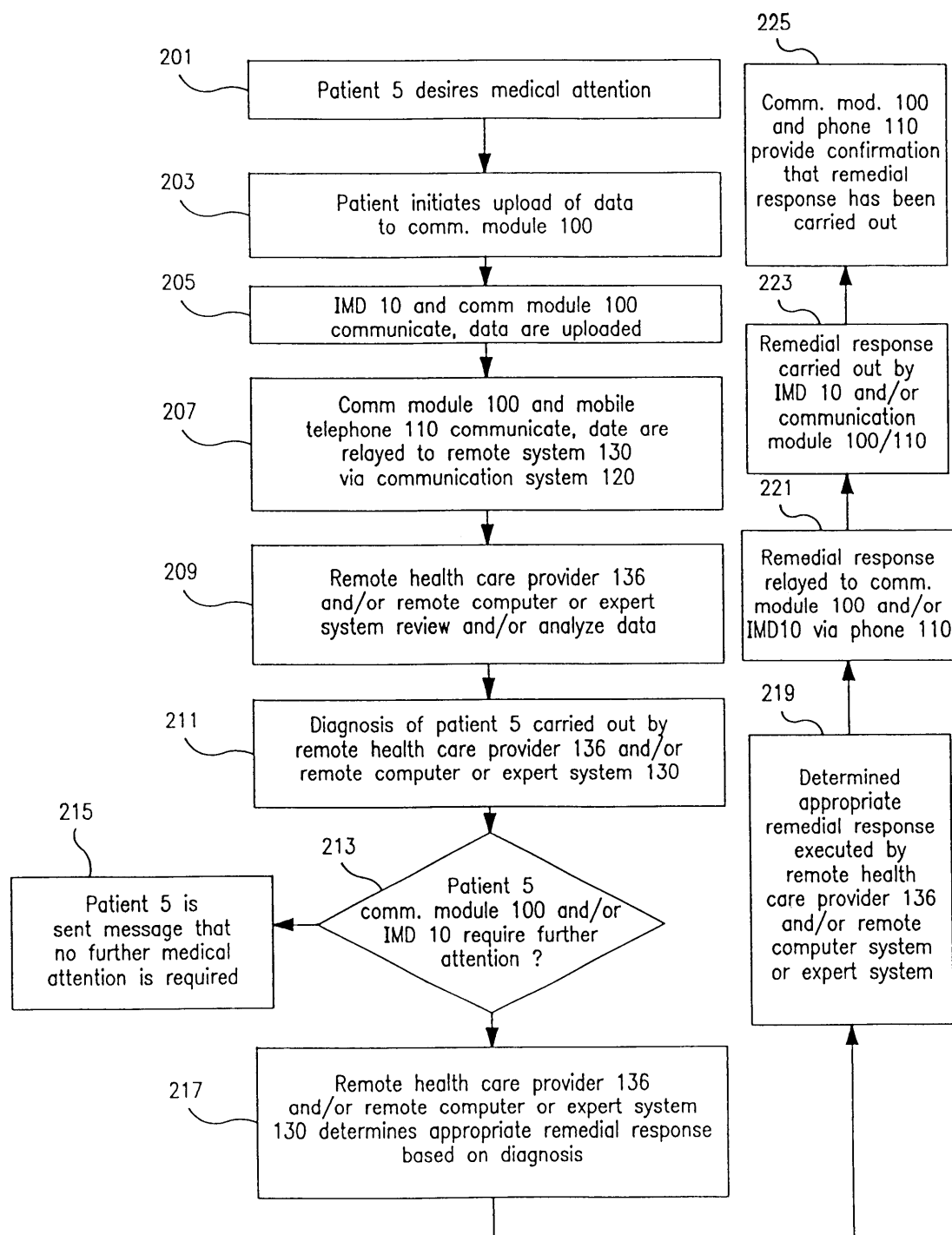
| Publication numbers              | Title                                                                                                                                         | Current assignees                    |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| <a href="#">US20010051787 A1</a> | System and method for <b>remote</b> programming of an implantable medical device                                                              | BELLTOWER, ...                       |
| <a href="#">US20020052539 A1</a> | System and method for emergency communication between an implantable medical and a <b>remote</b> computer system of health care provider      | BELLTOWER                            |
| <a href="#">US20170205854 A1</a> | <b>Mobile</b> device case for holding a display device                                                                                        | BEAM AUTHENTIC                       |
| <a href="#">WO200152934 A1</a>   | System and method of communicating between an implantable medical device and a <b>remote</b> computer system or health care provider          | MEDTRONIC                            |
| <a href="#">WO2008115456 A1</a>  | Wireless sensor reader                                                                                                                        | ENDOTRONIX                           |
| <a href="#">WO2009129484 A1</a>  | System and method for determining sheath location                                                                                             | MEDTRONIC                            |
| <a href="#">US20180060520 A1</a> | Systems and methods for managing and analyzing data generated by an implantable device                                                        | SEQUANA MEDICAL                      |
| <a href="#">US20130283256 A1</a> | Wireless monitoring of patient exercise and lifestyle                                                                                         | FITBIT                               |
| <a href="#">US20140249853 A1</a> | Wearable device with unique user id and telemetry system in communication with one or more social networks and/or one or more payment systems | FITBIT                               |
| <a href="#">US20150282734 A1</a> | Medical device placement system and a method for its use                                                                                      | MEDICAL COMPONENTS                   |
| <a href="#">CA2953847 A1</a>     | Communication system with <b>remote</b> activation                                                                                            | PROTEUS DIGITAL HEALTH               |
| <a href="#">WO201215954 A1</a>   | Transvascular wireless sensor system                                                                                                          | ENDOTRONIX                           |
| <a href="#">US20080001735 A1</a> | Mesh network personal emergency response appliance                                                                                            | PHILIPS                              |
| <a href="#">US20070276270 A1</a> | Fitness monitoring                                                                                                                            | PHILIPS                              |
| <a href="#">WO200936256 A1</a>   | Injectable physiological monitoring system                                                                                                    | MEDTRONIC MONITORING                 |
| <a href="#">US20090076401 A1</a> | Injectable physiological monitoring system                                                                                                    | MEDTRONIC MONITORING                 |
| <a href="#">WO200018294 A1</a>   | Systems comprising implantable devices for dynamic monitoring of tumors                                                                       | NORTH CAROLINA STATE UNIVERSITY, ... |
| <a href="#">WO2008101409 A1</a>  | Non-electrode-lead ultra-thin micro multifunctional heart rate adjusting device                                                               | SUN MEDICAL SCIENTIFIC SHANGHAI      |
| <a href="#">US20060206582 A1</a> | Rfid reader with multiple interfaces                                                                                                          | DPD PATENT TRUST                     |
| <a href="#">WO2005107863 A2</a>  | Leadless implantable cardioverter defibrillator                                                                                               | UNIVERSITY OF ROCHESTER              |
| <a href="#">US20140077946 A1</a> | Personal emergency response (PER) system                                                                                                      | EMPIRE IP                            |
| <a href="#">US6141588 A</a>      | Cardiac simulation system having multiple stimulators for anti-arrhythmia therapy                                                             | INTERMEDICS                          |
| <a href="#">US20030139778 A1</a> | Rapid response system for the detection and treatment of cardiac events                                                                       | ANGEL MEDICAL SYSTEMS                |



Family 1/23 - FAMPAT - ©Questel

**Title**

(EP1377341)

System and method for **remote** programming of an implantable medical device**Images****Publication data including kind & date**

|              |    |            |               |
|--------------|----|------------|---------------|
| US2001051787 | A1 | 2001-12-13 | US20010051787 |
| US2002013613 | A1 | 2002-01-31 | US20020013613 |
| US2002082665 | A1 | 2002-06-27 | US20020082665 |
| WO02056762   | A2 | 2002-07-25 | WO200256762   |
| WO02068047   | A2 | 2002-09-06 | WO200268047   |
| WO02056762   | A9 | 2002-10-10 | WO200256762   |



|                            |    |            |             |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
|----------------------------|----|------------|-------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <a href="#">WO02056762</a> | A3 | 2003-02-27 | WO200256762 |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| <a href="#">WO02068047</a> | A3 | 2003-10-16 | WO200268047 |  |  |  |  |
| <a href="#">EP1377341</a>  | A2 | 2004-01-07 | EP1377341   |  |  |  |  |
| <a href="#">US6804558</a>  | B2 | 2004-10-12 | US6804558   |  |  |  |  |
| <a href="#">US7149773</a>  | B2 | 2006-12-12 | US7149773   |  |  |  |  |
| <a href="#">US7181505</a>  | B2 | 2007-02-20 | US7181505   |  |  |  |  |

**Abstract**

(EP1377341)

A method and corresponding system for updating or installing new software loaded into the memory of an implantable medical device (IMD) implanted within a body of a patient is described. The updated or new software may be installed in the memory of the IMD without the patient having to travel to a clinic or hospital, and may be effected by employing modern telecommunication and Internet techniques in conjunction with a **remote** computer system.

**Inventors**

HALLER MARKUS

FEREK-PETRIC BOZIDAR

DONDEERS ADRIANUS P

**Latest standardized assignees - inventors removed**

BELLTOWER

ROSELLINI SCIENTIFIC BENELUX SPRI

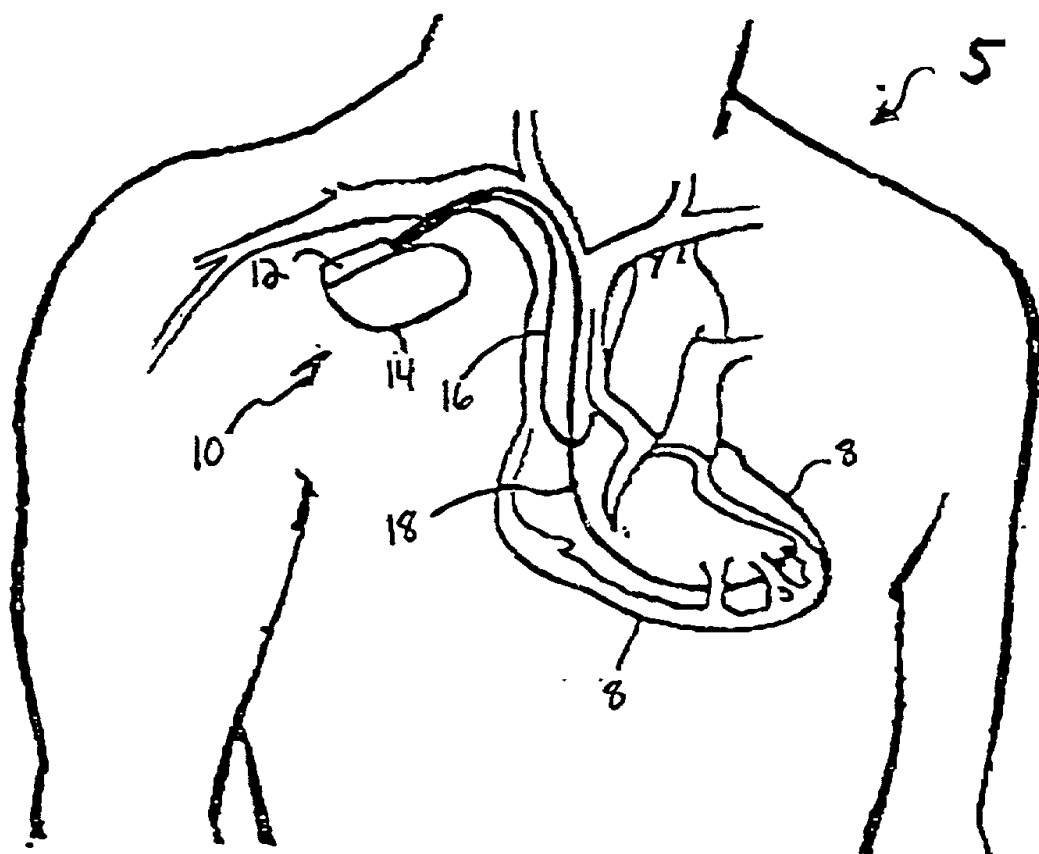
Family 2/23 - FAMPAT - ©Questel

**Title**

(WO200257994)

System and method for emergency communication between an implantable medical and a **remote** computer system of health care provider

**Images**



#### Publication data including kind & date

|                              |    |            |               |
|------------------------------|----|------------|---------------|
| <a href="#">US2002052539</a> | A1 | 2002-05-02 | US20020052539 |
| <a href="#">WO02057994</a>   | A2 | 2002-07-25 | WO200257994   |
| <a href="#">WO02057994</a>   | A9 | 2002-11-21 | WO200257994   |
| <a href="#">WO02057994</a>   | A3 | 2003-09-12 | WO200257994   |



#### Abstract

(WO200257994)

A emergency medical information communication system and corresponding methods are described. The system permits an emergency alert to be issued on the basis of information sensed or processed by an implantable medical device (IMD) implanted within a body of a patient. The IMD is capable of bi-directional communication with a communication module, a **mobile** telephone and/or a Personal Data Assistant (PDA) located outside the patient's body. The communication module, a **mobile** telephone or a PDA is capable of communicating an emergency alert generated by the IMD to a **remote** computer via a communication system. At the **remote** computer system it may be determined that emergency remedial action is required. If so, the action is executed remotely from the **remote** computer system in the IMD via the communication system.

#### Inventors

HALLER MARKUS

FEREK-PETRIC BOZIDAR

DONDERS ADRIANUS P

#### Latest standardized assignees - inventors removed

BELLTOWER

(WO2017127536)

**Mobile** device case for holding a display device**Images**

WO2017127536

A1 2017-07-27 WO2017127536

**Abstract**

(WO2017127536)

The present disclosure provides a system for displaying or projecting media selected by a user, comprising: a **mobile** device case that is removably mountable on a **mobile** device; and a visual curvilinear display coupled to said **mobile** device case, wherein the visual curvilinear display is configured to display or project the media selected by the user in a manner that is viewable by one or more observers, which media includes at least one of digital text, image or video, wherein the visual curvilinear display displays or projects said media according to a display and/or location preference or schedule of the user.

**Inventors**

ZENOFF ANDREW

**Latest standardized assignees - inventors removed**

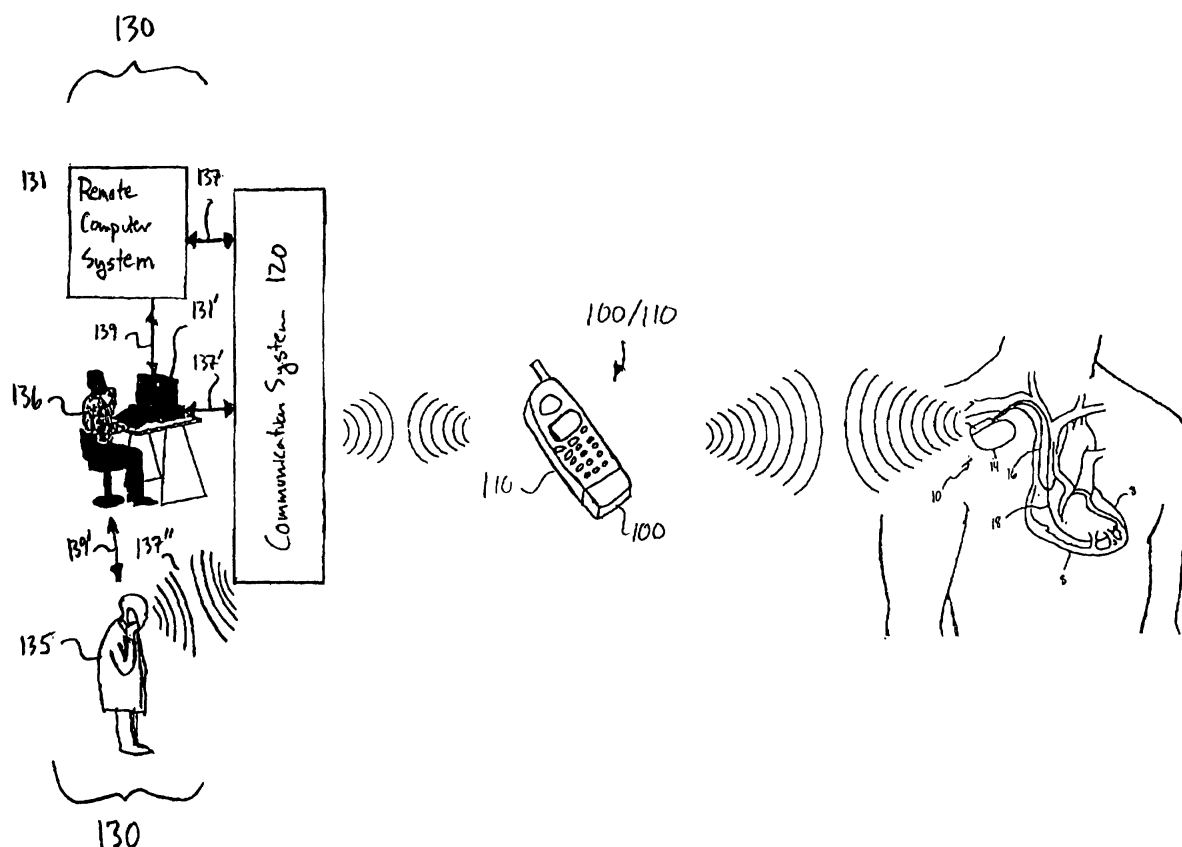
BEAM AUTHENTIC

Family 4/23 - FAMPAT - ©Questel

**Title**

(EP1251906)

System and method of communicating between an implantable medical device and a **remote** computer system or health care provider

**Images****Publication data including kind & date**

WO200152934 A1 2001-07-26 WO200152934

EP1251906 A1 2002-10-30 EP1251906

WO200152934 A9 2003-01-16 WO200152934

**Abstract**

(EP1251906)

A medical information communication system and corresponding methods are described. The system permits monitoring the performance of an implantable medical device (IMD) (14) implanted within a body of a patient, monitoring the health of

the patient, or remotely delivering a therapy to the patient through the IMD. The IMD is capable of bi-directional communication with a communication module (100/110), a **mobile** telephone and/or personal data assistant (PDA) located outside the patient's body. The system may comprise the IMD, the communication module and/or **mobile** telephone and/or a PDA, a **remote** computer system (131), and a communication system (120) capable of bi-directional communication, where the communication module, the **mobile** telephone and/or the PDA are capable of receiving information from the IMD or relaying information thereto.

**Inventors**

HALLER MARKUS

DONDEERS ANDRIANUS P

FEREK-PETRIC BOZIDAR

**Latest standardized assignees - inventors removed**

MEDTRONIC

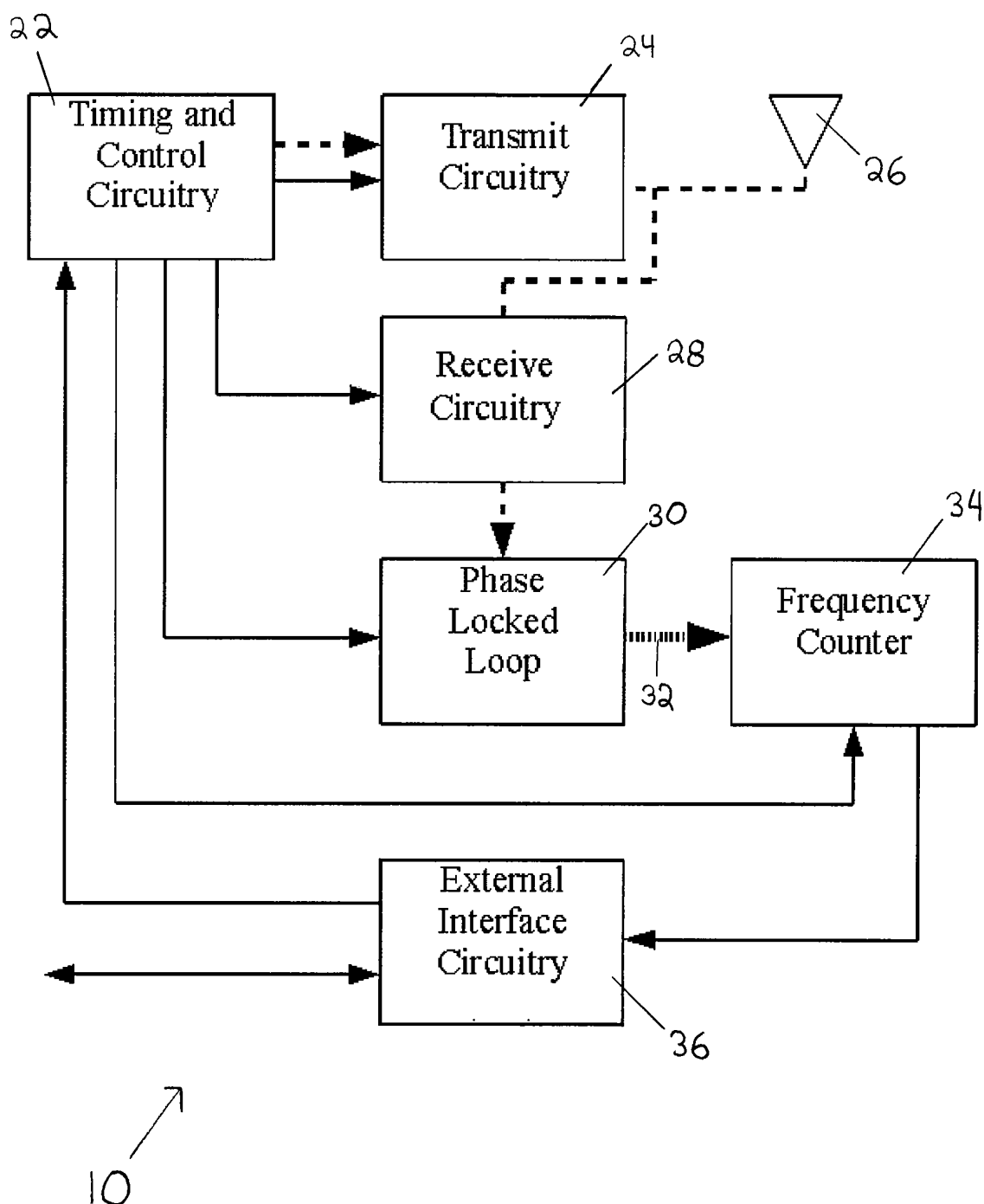
Family 5/23 - FAMPAT - ©Questel

**Title**

(EP3202309)

Wireless sensor reader

**Images**



#### Publication data including kind & date

|                               |    |            |               |
|-------------------------------|----|------------|---------------|
| <a href="#">WO2008115456</a>  | A1 | 2008-09-25 | WO2008115456  |
| <a href="#">US2008281212</a>  | A1 | 2008-11-13 | US20080281212 |
| <a href="#">US2009189741</a>  | A1 | 2009-07-30 | US20090189741 |
| <a href="#">CA2967730</a>     | A1 | 2010-10-14 | CA2967730     |
| <a href="#">WO2010117597</a>  | A1 | 2010-10-14 | WO2010117597  |
| <a href="#">CA2757952</a>     | A1 | 2010-10-14 | CA2757952     |
| <a href="#">US2010308974</a>  | A1 | 2010-12-09 | US20100308974 |
| <a href="#">HK1147906</a>     | A2 | 2011-08-19 | HK1147906     |
| <a href="#">AU2010235020</a>  | A1 | 2011-11-03 | AU2010235020  |
| <a href="#">KR20120000107</a> | A  | 2012-01-03 | KR20120000107 |
| <a href="#">TW201203875</a>   | A  | 2012-01-16 | TW201203875   |
| <a href="#">EP2417590</a>     | A1 | 2012-02-15 | EP2417590     |
| <a href="#">US8154389</a>     | B2 | 2012-04-10 | US8154389     |



|                   |    |            |               |                                                                                     |                                                                                      |                                                                                       |                                                                                       |
|-------------------|----|------------|---------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| CN102422330       | A  | 2012-04-18 | CN102422330   |    |    |    |    |
| US2012286934      | A1 | 2012-11-15 | US20120286934 |    |    |    |    |
| EP2417590         | A4 | 2013-01-23 | EP2417590     |    |    |    |    |
| US8432265         | B2 | 2013-04-30 | US8432265     |    |    |    |    |
| IN7813/CHENP/2011 | A  | 2013-05-03 | IN2011CN07813 |    |    |    |    |
| JP2013522932      | A  | 2013-06-13 | JP2013522932  |    |    |    |    |
| US8493187         | B2 | 2013-07-23 | US8493187     |    |    |    |    |
| US2013222153      | A1 | 2013-08-29 | US20130222153 |    |    |    |    |
| AU2010235020      | B2 | 2015-09-03 | AU2010235020  |    |    |    |    |
| TWI504165         | B  | 2015-10-11 | TWI504165     |    |    |    |    |
| TW201603505       | A  | 2016-01-16 | TW201603505   |    |    |    |    |
| US9305456         | B2 | 2016-04-05 | US9305456     |    |    |    |    |
| US2016210846      | A1 | 2016-07-21 | US20160210846 |    |    |    |    |
| TWI559691         | B  | 2016-11-21 | TWI559691     |    |    |    |    |
| CN102422330       | B  | 2016-12-07 | CN102422330B  |    |    |    |    |
| CN106652402       | A  | 2017-05-10 | CN106652402   |    |    |    |    |
| EP2417590         | B1 | 2017-05-10 | EP2417590     |    |    |    |    |
| KR101738705       | B1 | 2017-05-22 | KR101738705   |    |    |    |    |
| CA2757952         | C  | 2017-07-04 | CA2757952     |    |    |    |    |
| US9721463         | B2 | 2017-08-01 | US9721463     |   |   |   |   |
| EP3202309         | A1 | 2017-08-09 | EP3202309     |  |  |  |  |
| ES2634708         | T3 | 2017-09-28 | ES2634708     |  |  |  |  |
| US2017309164      | A1 | 2017-10-26 | US20170309164 |  |  |  |  |

**Abstract**

(EP3202309)

There is provided a wireless sensor reader comprising: a transmit circuit configured to generate at least one excitation pulse to cause a wireless sensor to emit at least one response signal corresponding to a sensed parameter value; at least one antenna configured to transmit said at least one excitation pulse and receive said at least one response signal; a receive circuit for amplifying said at least one received response signal; a digital sampling circuit for converting said at least one amplified received response signal to digital representation; a spectrum analysis circuitry for converting said digital representation of said at least one response signal to a frequency domain representation; and a frequency domain circuitry for processing of said frequency domain representation to determine said wireless sensor sensed parameter value.

**Inventors**

ROWLAND HARRY

WATKINS ROGER

SUNDARAM BALAMURUGAN

PAUL BRIAN

AHN IN SOO

NAGY MICHAEL

**Latest standardized assignees - inventors removed**

ENDOTRONIX

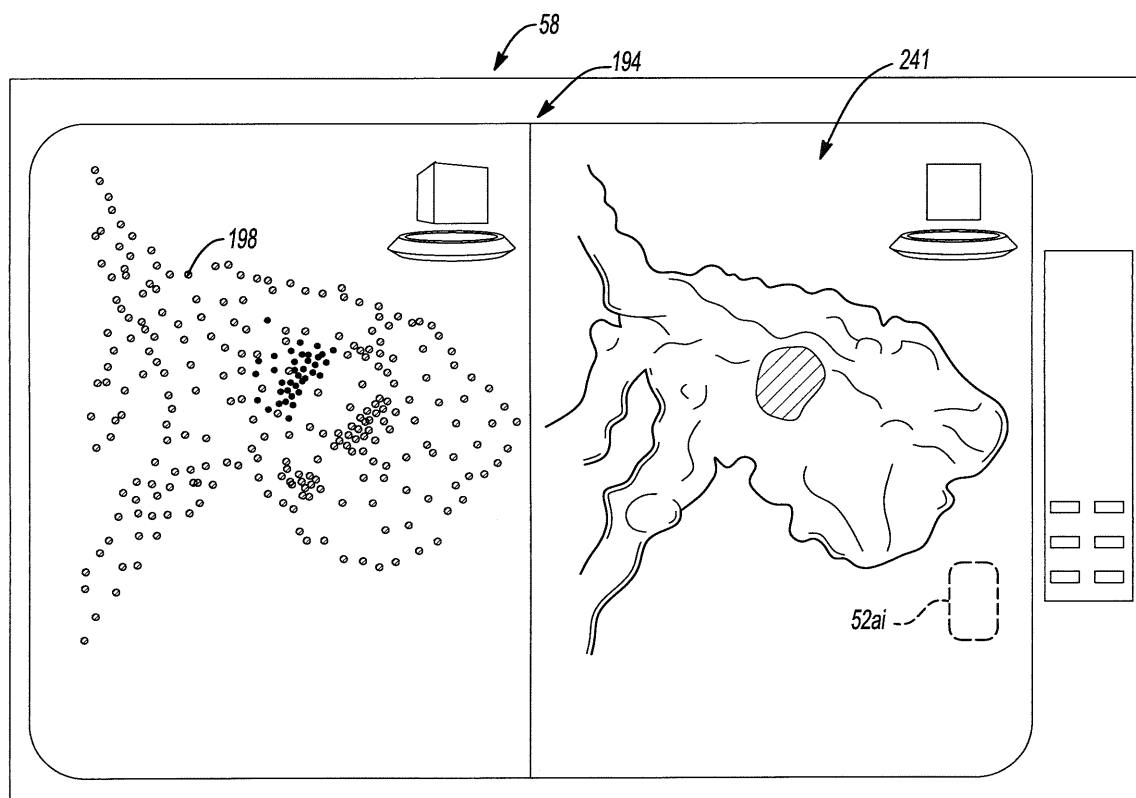
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**Title**

(EP2416832)

System and method for determining sheath location

**Images**



#### Publication data including kind & date

|                              |    |            |               |
|------------------------------|----|------------|---------------|
| <a href="#">WO2009129484</a> | A1 | 2009-10-22 | WO2009129484  |
| <a href="#">WO2009129477</a> | A1 | 2009-10-22 | WO2009129477  |
| <a href="#">WO2009129475</a> | A1 | 2009-10-22 | WO2009129475  |
| <a href="#">US2009264750</a> | A1 | 2009-10-22 | US20090264750 |
| <a href="#">US2009264747</a> | A1 | 2009-10-22 | US20090264747 |
| <a href="#">US2009264746</a> | A1 | 2009-10-22 | US20090264746 |
| <a href="#">US2009264751</a> | A1 | 2009-10-22 | US20090264751 |
| <a href="#">US2009264749</a> | A1 | 2009-10-22 | US20090264749 |
| <a href="#">US2009264748</a> | A1 | 2009-10-22 | US20090264748 |
| <a href="#">US2009265128</a> | A1 | 2009-10-22 | US20090265128 |
| <a href="#">US2009262109</a> | A1 | 2009-10-22 | US20090262109 |
| <a href="#">US2009264778</a> | A1 | 2009-10-22 | US20090264778 |
| <a href="#">US2009264745</a> | A1 | 2009-10-22 | US20090264745 |
| <a href="#">US2009264743</a> | A1 | 2009-10-22 | US20090264743 |
| <a href="#">US2009264741</a> | A1 | 2009-10-22 | US20090264741 |
| <a href="#">US2009264744</a> | A1 | 2009-10-22 | US20090264744 |
| <a href="#">US2009264742</a> | A1 | 2009-10-22 | US20090264742 |
| <a href="#">US2009262982</a> | A1 | 2009-10-22 | US20090262982 |
| <a href="#">US2009264740</a> | A1 | 2009-10-22 | US20090264740 |
| <a href="#">US2009262979</a> | A1 | 2009-10-22 | US20090262979 |
| <a href="#">US2009264777</a> | A1 | 2009-10-22 | US20090264777 |
| <a href="#">US2009264738</a> | A1 | 2009-10-22 | US20090264738 |
| <a href="#">US2009264739</a> | A1 | 2009-10-22 | US20090264739 |
| <a href="#">US2009264727</a> | A1 | 2009-10-22 | US20090264727 |
| <a href="#">US2009262992</a> | A1 | 2009-10-22 | US20090262992 |
| <a href="#">US2009264752</a> | A1 | 2009-10-22 | US20090264752 |
| <a href="#">US2009267773</a> | A1 | 2009-10-29 | US20090267773 |



|                   |    |            |               |                                                                                     |                                                                                      |                                                                                       |                                                                                       |
|-------------------|----|------------|---------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| US2009297001      | A1 | 2009-12-03 | US20090297001 |     |     |     |     |
| WO2010118314      | A1 | 2010-10-14 | WO2010118314  |    |    |    |    |
| EP2271253         | A1 | 2011-01-12 | EP2271253     |    |    |    |    |
| EP2273919         | A1 | 2011-01-19 | EP2273919     |    |    |    |    |
| EP2276402         | A1 | 2011-01-26 | EP2276402     |    |    |    |    |
| CN102036606       | A  | 2011-04-27 | CN102036606   |    |    |    |    |
| CN102056537       | A  | 2011-05-11 | CN102056537   |    |    |    |    |
| IN2327/MUMNP/2010 | A  | 2011-06-10 | IN2010MN02327 |    |    |    |    |
| IN2271/MUMNP/2010 | A  | 2011-06-10 | IN2010MN02271 |    |    |    |    |
| CN102118994       | A  | 2011-07-06 | CN102118994   |    |    |    |    |
| IN4352/KOLNP/2010 | A  | 2011-11-25 | IN2010KN04352 |    |    |    |    |
| US8106905         | B2 | 2012-01-31 | US8106905     |    |    |    |    |
| EP2416832         | A1 | 2012-02-15 | EP2416832     |    |    |    |    |
| US8185192         | B2 | 2012-05-22 | US8185192     |    |    |    |    |
| US2012130232      | A1 | 2012-05-24 | US20120130232 |    |    |    |    |
| US8208991         | B2 | 2012-06-26 | US8208991     |    |    |    |    |
| US8214018         | B2 | 2012-07-03 | US8214018     |    |    |    |    |
| CN102548605       | A  | 2012-07-04 | CN102548605   |    |    |    |    |
| US2012190993      | A1 | 2012-07-26 | US20120190993 |    |    |    |    |
| US8260395         | B2 | 2012-09-04 | US8260395     |    |    |    |    |
| US2012226110      | A1 | 2012-09-06 | US20120226110 |   |   |   |   |
| US8345067         | B2 | 2013-01-01 | US8345067     |  |  |  |  |
| US8364252         | B2 | 2013-01-29 | US8364252     |  |  |  |  |
| US8391965         | B2 | 2013-03-05 | US8391965     |  |  |  |  |
| US8421799         | B2 | 2013-04-16 | US8421799     |  |  |  |  |
| US8424536         | B2 | 2013-04-23 | US8424536     |  |  |  |  |
| IN7234/CHENP/2011 | A  | 2013-04-26 | IN2011CN07234 |  |  |  |  |
| US8442625         | B2 | 2013-05-14 | US8442625     |  |  |  |  |
| US8457371         | B2 | 2013-06-04 | US8457371     |  |  |  |  |
| US8494608         | B2 | 2013-07-23 | US8494608     |  |  |  |  |
| US8532734         | B2 | 2013-09-10 | US8532734     |  |  |  |  |
| US2013267840      | A1 | 2013-10-10 | US20130267840 |  |  |  |  |
| US8560042         | B2 | 2013-10-15 | US8560042     |  |  |  |  |
| US2013281813      | A1 | 2013-10-24 | US20130281813 |  |  |  |  |
| US8660640         | B2 | 2014-02-25 | US8660640     |  |  |  |  |
| US8663120         | B2 | 2014-03-04 | US8663120     |  |  |  |  |
| US8768434         | B2 | 2014-07-01 | US8768434     |  |  |  |  |
| CN102548605       | B  | 2014-07-09 | CN102548605B  |  |  |  |  |
| US8831701         | B2 | 2014-09-09 | US8831701     |  |  |  |  |
| US8843189         | B2 | 2014-09-23 | US8843189     |  |  |  |  |
| US8839798         | B2 | 2014-09-23 | US8839798     |  |  |  |  |
| US8887736         | B2 | 2014-11-18 | US8887736     |  |  |  |  |
| CN102056537       | B  | 2014-12-10 | CN102056537B  |  |  |  |  |
| US9101285         | B2 | 2015-08-11 | US9101285     |  |  |  |  |
| US9131872         | B2 | 2015-09-15 | US9131872     |  |  |  |  |
| US9179860         | B2 | 2015-11-10 | US9179860     |  |  |  |  |
| US2016066814      | A1 | 2016-03-10 | US20160066814 |  |  |  |  |
| US9332928         | B2 | 2016-05-10 | US9332928     |  |  |  |  |

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| <a href="#">CN102118994</a> | B  | 2016-05-25 | CN102118994B |
| <a href="#">CN105769180</a> | A  | 2016-07-20 | CN105769180  |
| <a href="#">CN102036606</a> | B  | 2016-11-16 | CN102036606B |
| <a href="#">US9662041</a>   | B2 | 2017-05-30 | US9662041    |

**Abstract**

(EP2416832)

A system for determining a location of an instrument within an anatomy is provided. The system can include a first instrument, which can define at least one lumen. The system can further include a second instrument, which can be received through the at least one lumen. The system can include at least one electrode, which can be coupled to a distal end of the first instrument. The electrode can be responsive to electrical activity to generate at least one signal. The system can include a sensing unit, which can be in contact with the anatomy to sense electrical activity within the anatomy at a location near the instrument. The sensing unit can be in communication with the electrode to receive the signal. The system can further include a control module that can determine, based on the sensed electrical activity and the signal, the location of the first instrument.

**Inventors**

MARKOWITZ H TOBY

GIESE CHAD

JANNICKE JEFF

WALDHAUSER STEVEN L

**Latest standardized assignees - inventors removed**

MEDTRONIC

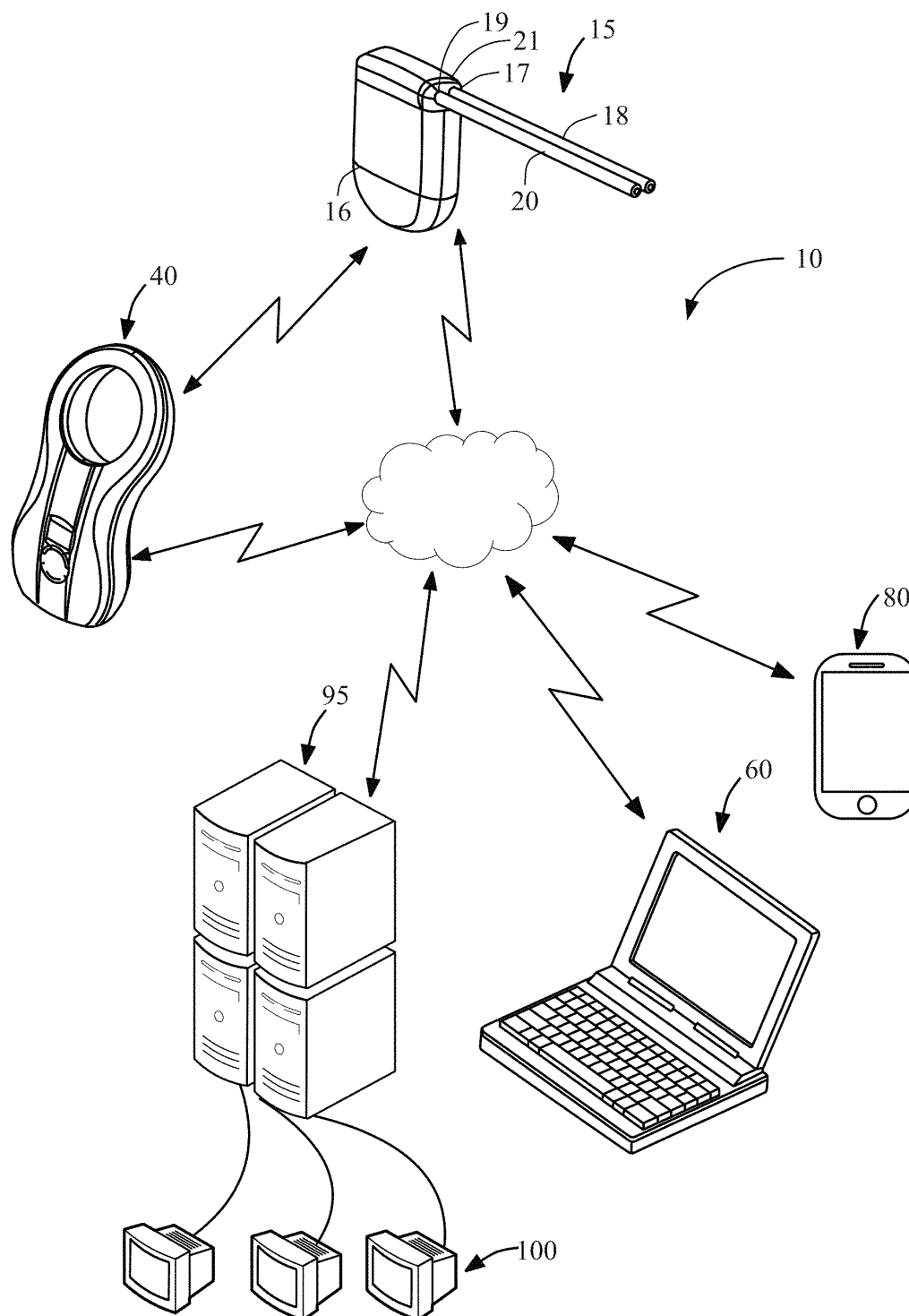
Family 7/23 - FAMPAT - ©Questel

**Title**

(WO201837360)

Systems and methods for managing and analyzing data generated by an implantable device

**Images**



#### Publication data including kind & date

|                              |    |            |               |
|------------------------------|----|------------|---------------|
| <a href="#">US2018060520</a> | A1 | 2018-03-01 | US20180060520 |
| <a href="#">WO2018037360</a> | A1 | 2018-03-01 | WO201837360   |



#### Abstract

(WO201837360)

A system is provided including an implantable device configured to be implanted subcutaneously within a patient, a clinician monitoring and control device, an optional patient **mobile** device, a **remote** server and/or at least one data analyst device used by a data analyst. The implantable device may communicate with any or all of the monitoring and control device, the **mobile** device and/or the **remote** server through the charging device or by establishing a direct wireless connection with each such device. The data analyst device may establish a direct connection with the **remote** server and also may establish a connection with the monitoring and control device and the **mobile** device. By analyzing and reviewing the data generated by the implantable device, the data analyst may diagnose a medical condition or indicate a heightened



|              |    |            |               |                                                                                     |                                                                                      |                                                                                       |                                                                                       |
|--------------|----|------------|---------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| US2014247148 | A1 | 2014-09-04 | US20140247148 |    |    |    |    |
| US2014247153 | A1 | 2014-09-04 | US20140247153 |    |    |    |    |
| US2014247150 | A1 | 2014-09-04 | US20140247150 |    |    |    |    |
| US2014247156 | A1 | 2014-09-04 | US20140247156 |    |    |    |    |
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| US9204798    | B2 | 2015-12-08 | US9204798     |    |    |    |    |
| US9298882    | B2 | 2016-03-29 | US9298882     |    |    |    |    |
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| US9737214    | B2 | 2017-08-22 | US9737214     |  |  |  |  |

**Abstract**

(US9737214)

A system is provided that uses using telemetry data based on a patient habit information or patient monitoring. One or more patient monitoring devices has a unique patient ID, with personalized patient information. A patient monitoring device includes an application for monitoring exercise activity of a patient. ID circuitry is at the patient monitoring device, which includes ID storage and a communication system that reads and transmits the unique ID from an ID storage. A power source and a pathway system routes signals through the circuitry. A telemetry system is in communication with the patient monitoring device and includes a database of patient ID's which is in communication with the patient monitoring device and analyzes patient information based on the patient ID. The telemetry system receives exercise-related information directly or indirectly from the monitoring device that indicates an amount or type of exercise performed by the patient.

**Inventors**

PROUD JAMES

**Latest standardized assignees - inventors removed**

FITBIT

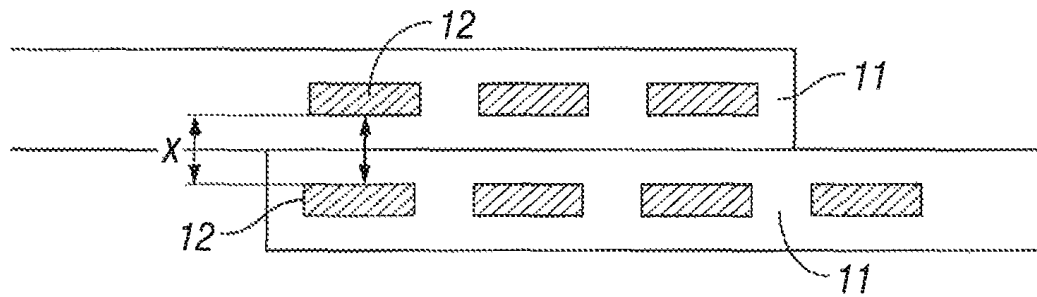
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**Title**

(WO2014137919)

Wearable device with unique user id and telemetry system in communication with one or more social networks and/or one or more payment systems

## Images



## Publication data including kind &amp; date

|                              |    |            |               |  |  |  |  |
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| <a href="#">US2014249853</a> | A1 | 2014-09-04 | US20140249853 |  |  |  |  |
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| US9380941    | B2 | 2016-07-05 | US9380941     |    |    |    |    |
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| US9582748    | B2 | 2017-02-28 | US9582748     |  |  |  |  |
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| US9704209    | B2 | 2017-07-11 | US9704209     |  |  |  |  |
| US9723898    | B2 | 2017-08-08 | US9723898     |  |  |  |  |
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| US9848776    | B2 | 2017-12-26 | US9848776     |  |  |  |  |

**Abstract**

(WO2014137919)

A wearable device communicates with a telemetry system. One or more sensors are coupled to a wearable device of a user

that has a unique user ID. The one or more sensors acquire user information selected from at least one of, a user's activities, behaviors, habit information and health related information. ID circuitry is at the user wearable device. A telemetry system is in communication with the one or more sensors. The wearable device or the telemetry system is in communication with a social network or a payment system.

**Inventors**

PROUD JAMES

FAN BRYAN

FERNANDEZ JOAQUIN

SHOOK ROBERT

**Latest standardized assignees - inventors removed**

FITBIT

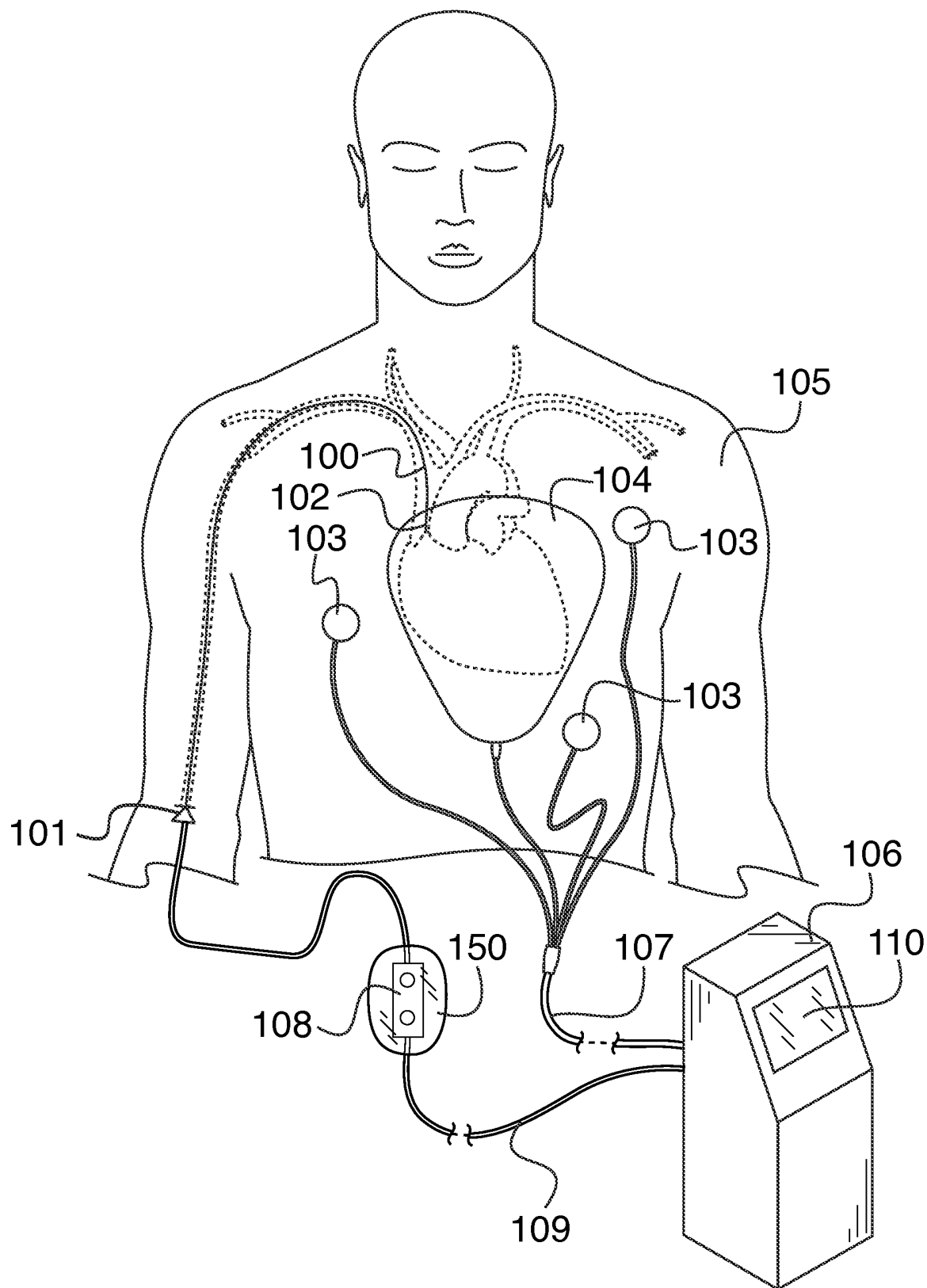
Family 10/23 - FAMPAT - ©Questel

**Title**

(EP3128906)

Medical device placement system and a method for its use

**Images**


**Publication data including kind & date**

|                                |    |            |                |
|--------------------------------|----|------------|----------------|
| <a href="#">US2015282734</a>   | A1 | 2015-10-08 | US20150282734  |
| <a href="#">CA2945306</a>      | A1 | 2015-10-15 | CA2945306      |
| <a href="#">WO2015157398</a>   | A1 | 2015-10-15 | WO2015157398   |
| <a href="#">BR112016023578</a> | A1 | 2017-01-17 | BR112016023578 |
| <a href="#">EP3128906</a>      | A1 | 2017-02-15 | EP3128906      |
| <a href="#">JP2017515623</a>   | A  | 2017-06-15 | JP2017515623   |
| <a href="#">CN107072570</a>    | A  | 2017-08-18 | CN107072570    |



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| <a href="#">IN201627037999</a> | A  | 2017-09-08 | IN201627037999 |
| <a href="#">EP3128906</a>      | A4 | 2017-11-22 | EP3128906      |
| <a href="#">MX2016013152</a>   | A  | 2017-12-14 | MX2016013152   |
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**Abstract**

(EP3128906)

A system and method for locating a medical device within a body uses wireless technology to transmit the information obtained from the sensors to a **mobile** device or other computing system. A software application on the **mobile** device or computing system can be used to display the information, wherein the user can control the display without needing to contact any items that are not sterile.

**Inventors**

SCHWEIKERT TIMOTHY

DAERTI SKENDER

ROWAN ROSE

HARRIS ERIC M

JOYCE MICHAEL

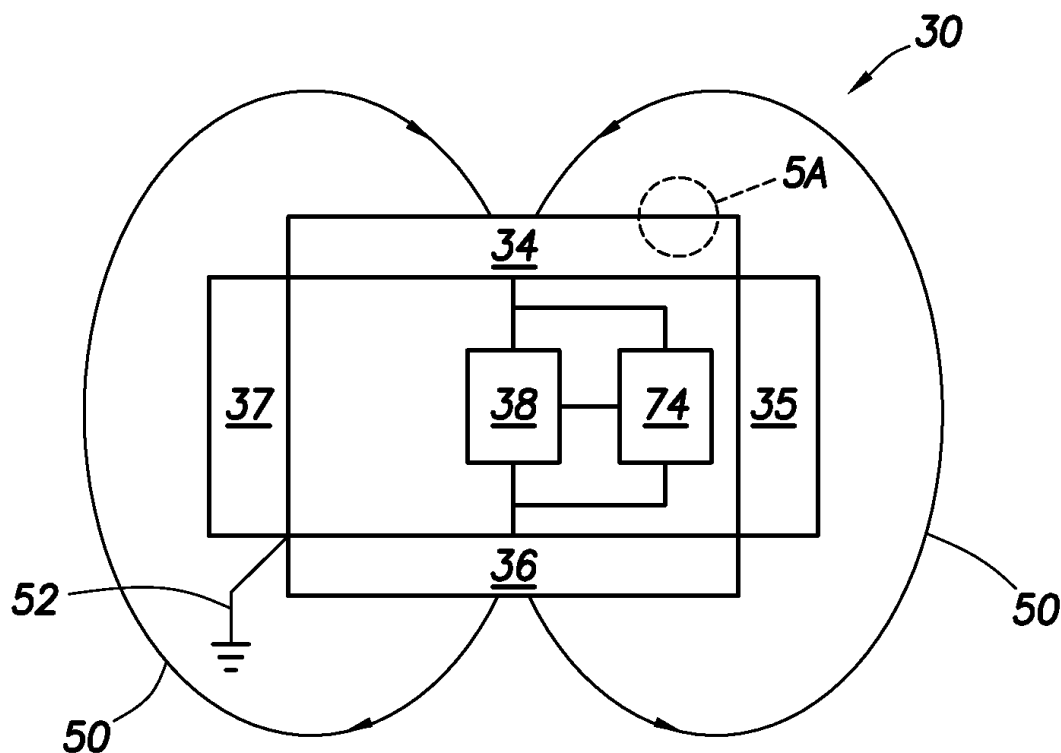
**Latest standardized assignees - inventors removed**

MEDICAL COMPONENTS

Family 11/23 - FAMPAT - ©Questel

**Title**

(EP2731497)

Communication system with **remote** activation**Images****Publication data including kind & date**

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| <a href="#">CA2953847</a>    | A1 | 2006-11-02 | CA2953847    |
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| WO2013009777      | A2 | 2013-01-17 | WO201309777   |  |  |  |  |
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| EP2731489      | A2 | 2014-05-21 | EP2731489      |  |  |  |  |
| EP2731497      | A2 | 2014-05-21 | EP2731497      |  |  |  |  |
| EP2731496      | A2 | 2014-05-21 | EP2731496      |  |  |  |  |
| EP2731495      | A2 | 2014-05-21 | EP2731495      |  |  |  |  |
| EP2731494      | A2 | 2014-05-21 | EP2731494      |  |  |  |  |
| VN37840        | A  | 2014-05-26 | VN--37840      |  |  |                                                                                       |  |
| VN37839        | A  | 2014-05-26 | VN--37839      |  |  |                                                                                       |  |
| VN37838        | A  | 2014-05-26 | VN--37838      |  |  |                                                                                       |  |
| KR20140066996  | A  | 2014-06-03 | KR20140066996  |  |  |  |  |
| VN38146        | A  | 2014-06-25 | VN--38146      |  |  |                                                                                       |  |
| US2014179221   | A1 | 2014-06-26 | US20140179221  |  |  |  |  |
| CN103957773    | A  | 2014-07-30 | CN103957773    |  |  |  |  |
| US8802183      | B2 | 2014-08-12 | US8802183      |  |  |  |  |

|               |    |            |               |                                                                                     |                                                                                      |                                                                                       |                                                                                       |
|---------------|----|------------|---------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| US8816847     | B2 | 2014-08-26 | US8816847     |    |    |                                                                                       |    |
| MX2014000484  | A  | 2014-08-27 | MX2014000484  |    |    |                                                                                       |    |
| MX2014000482  | A  | 2014-08-27 | MX2014000482  |    |    |                                                                                       |    |
| MX2014000485  | A  | 2014-09-08 | MX2014000485  |    |    |                                                                                       |    |
| MX2014000481  | A  | 2014-09-08 | MX2014000481  |    |    |                                                                                       |    |
| JP2014522695  | A  | 2014-09-08 | JP2014522695  |    |    |    |    |
| JP2014522694  | A  | 2014-09-08 | JP2014522694  |    |    |    |    |
| US8836513     | B2 | 2014-09-16 | US8836513     |    |    |    |    |
| US8847766     | B2 | 2014-09-30 | US8847766     |    |    |    |    |
| JP2014525780  | A  | 2014-10-02 | JP2014525780  |    |    |    |    |
| EP2392258     | B1 | 2014-10-08 | EP2392258     |    |    |    |    |
| JP2014526918  | A  | 2014-10-09 | JP2014526918  |    |    |    |    |
| KR20140126282 | A  | 2014-10-30 | KR20140126282 |    |    |    |    |
| JP2014529378  | A  | 2014-11-06 | JP2014529378  |    |    |    |    |
| CN102379684   | B  | 2014-11-19 | CN102379684B  |    |    |    |    |
| EP1889198     | B1 | 2014-11-26 | EP1889198     |    |    |    |    |
| US8912908     | B2 | 2014-12-16 | US8912908     |    |    |    |    |
| EP2731496     | A4 | 2014-12-17 | EP2731496     |    |    |    |    |
| DK2392258     | T3 | 2015-01-12 | DK2392258T    |    |    |    |    |
| ES2528403     | T3 | 2015-02-09 | ES2528403     |   |   |    |   |
| DK1889198     | T3 | 2015-02-09 | DK1889198T    |  |  |   |  |
| SI1889198     | T1 | 2015-02-27 | SI1889198T    |  |  |                                                                                       |  |
| PT1889198     | E  | 2015-03-06 | PT1889198     |  |  |  |  |
| JP5683641     | B2 | 2015-03-11 | JP5683641     |  |  |  |  |
| US2015080680  | A1 | 2015-03-19 | US2015080680  |  |  |  |  |
| HK1198283     | A1 | 2015-03-27 | HK1198283     |  |  |                                                                                       |  |
| IL214183      | B  | 2015-03-31 | IL-214183     |  |  |  |  |
| EP2731497     | A4 | 2015-04-01 | EP2731497     |  |  |  |  |
| IN509CHN2014  | A  | 2015-04-03 | IN2014CN00509 |  |  |  |  |
| IN508CHN2014  | A  | 2015-04-03 | IN2014CN00508 |  |  |  |  |
| IN506CHN2014  | A  | 2015-04-03 | IN2014CN00506 |  |  |  |  |
| US2015150480  | A1 | 2015-06-04 | US20150150480 |  |  |  |  |
| JP5730822     | B2 | 2015-06-10 | JP5730822     |  |  |  |  |
| WO2015112603  | A1 | 2015-07-30 | WO2015112603  |  |  |  |  |
| TH142309      | A  | 2015-08-03 | TH-142309     |  |  |                                                                                       |  |
| TH142308      | A  | 2015-08-03 | TH-142308     |  |  |                                                                                       |  |
| TH142307      | A  | 2015-08-03 | TH-142307     |  |  |                                                                                       |  |
| EP2731495     | A4 | 2015-08-05 | EP2731495     |  |  |  |  |
| EP2731494     | A4 | 2015-08-05 | EP2731494     |  |  |  |  |
| US2015223751  | A1 | 2015-08-13 | US20150223751 |  |  |  |  |
| RU2014104691  | A  | 2015-08-20 | RU2014104691  |  |  |                                                                                       |  |
| RU2014104519  | A  | 2015-08-20 | RU2014104519  |  |  |                                                                                       |  |
| US2015230729  | A1 | 2015-08-20 | US20150230729 |  |  |  |  |
| US9119554     | B2 | 2015-09-01 | US9119554     |  |  |  |  |
| RU2014104693  | A  | 2015-09-10 | RU2014104693  |  |  |                                                                                       |  |
| RU2014104692  | A  | 2015-09-10 | RU2014104692  |  |  |                                                                                       |  |
| HK1113652     | A1 | 2015-09-11 | HK1113652     |  |  |                                                                                       |  |
| HK1166680     | A1 | 2015-09-18 | HK1166680     |  |  |  |  |

|                   |    |            |                |                                                                                     |                                                                                      |                                                                                       |                                                                                       |
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| EP2731489         | A4 | 2015-09-30 | EP2731489      |                                                                                     |                                                                                      |                                                                                       |                                                                                       |
| TH143410          | A  | 2015-10-12 | TH-143410      |    |    |                                                                                       |    |
| JP5805315         | B2 | 2015-11-04 | JP5805315      |    |    |    |    |
| HK1158920         | A1 | 2015-11-06 | HK1158920      |    |    |                                                                                       |    |
| ZA201400337       | B  | 2015-11-25 | ZA201400337    |    |    |                                                                                       |    |
| US9198608         | B2 | 2015-12-01 | US9198608      |    |    |    |    |
| CN103781413       | B  | 2015-12-02 | CN103781413B   |    |    |    |    |
| RU2572017         | C2 | 2015-12-27 | RU2572017      |    |    |                                                                                       |    |
| CN103781411       | B  | 2016-01-06 | CN103781411B   |    |    |    |    |
| MX336850          | B  | 2016-02-03 | MX-336850      |    |    |                                                                                       |    |
| EP2731496         | B1 | 2016-02-10 | EP2731496      |    |    |    |    |
| MX337131          | B  | 2016-02-12 | MX-337131      |    |    |                                                                                       |    |
| MX337132          | B  | 2016-02-12 | MX-337132      |    |    |                                                                                       |    |
| EP2731497         | B1 | 2016-04-27 | EP2731497      |    |    |    |    |
| IN0507/CHENP/2014 | A  | 2016-07-01 | IN2014CN00507  |    |    |    |    |
| ZA201400338       | B  | 2016-07-27 | ZA201400338    |    |    |                                                                                       |    |
| UA112548          | C2 | 2016-09-26 | UA-112548      |    |    |                                                                                       |    |
| CA2789262         | C  | 2016-10-04 | CA2789262      |    |    |    |    |
| US2017000180      | A1 | 2017-01-05 | US20170000180  |    |    |    |    |
| HK1196240         | A1 | 2017-01-06 | HK1196240      |    |    |                                                                                       |    |
| AU2012282776      | B2 | 2017-02-02 | AU2012282776   |   |   |   |   |
| CY1116221         | T1 | 2017-02-08 | CY1116221      |  |  |                                                                                       |  |
| BR112014000624    | A2 | 2017-02-14 | BR112014000624 |  |  |  |  |
| BR112014000645    | A2 | 2017-02-14 | BR112014000645 |  |  |  |  |
| BR112014000641    | A2 | 2017-02-14 | BR112014000641 |  |  |  |  |
| BR112014000620    | A2 | 2017-02-14 | BR112014000620 |  |  |  |  |
| HK1196239         | A1 | 2017-02-17 | HK1196239      |  |  |                                                                                       |  |
| CA2789097         | C  | 2017-02-21 | CA2789097      |  |  |  |  |
| AU2017202754      | A1 | 2017-05-18 | AU2017202754   |  |  |  |  |
| US9681842         | B2 | 2017-06-20 | US9681842      |  |  |  |  |
| IL216535          | B  | 2017-06-29 | IL-216535      |  |  |  |  |
| IL252946          | A  | 2017-08-31 | IL-252946      |  |  |  |  |
| US9756874         | B2 | 2017-09-12 | US9756874      |  |  |  |  |
| US2017265813      | A1 | 2017-09-21 | US20170265813  |  |  |  |  |
| JP2017208332      | A  | 2017-11-24 | JP2017208332   |  |  |  |  |
| JP6259395         | B2 | 2018-01-10 | JP6259395      |  |  |  |  |

**Abstract**

(EP2731497)

The system of the present invention includes a conductive element, an electronic component, and a partial power source in the form of dissimilar materials. Upon contact with a conducting fluid, a voltage potential is created and the power source is completed, which activates the system. The electronic component controls the conductance between the dissimilar materials to produce a unique current signature. The system can also measure the conditions of the environment surrounding the system.

**Inventors**

BERKMAN JEFFREY

ZDEBLICK MARK J

JOHNSON PATRICIA

HAFEZI HOOMAN

WITHRINGTON JONATHAN

**Latest standardized assignees - inventors removed**

PROTEUS DIGITAL HEALTH

Family 12/23 - FAMPAT - ©Questel

**Title**

(WO201215954)

Transvascular wireless sensor system

**Images**



### Publication data including kind & date

WO2012015954

A1 2012-02-02 WO201215954



## Abstract

(WO201215954)

The present invention is a communication system for communicating with an implantable device. The communication

system comprises an implantable device, an implantable electronic unit and a remote antenna, wherein the remote antenna extends from the implantable electronic unit on wire leads. In one embodiment, the implantable device may be a sensor. In another embodiment, the implantable electronic unit may communicate wirelessly with the implantable device through a remote antenna.

**Inventors**

HINCHLIFFE PETER

ROWLAND HARRY

NAGY MICHAEL

PRIOR REED

**Latest standardized assignees - inventors removed**

ENDOTRONIX

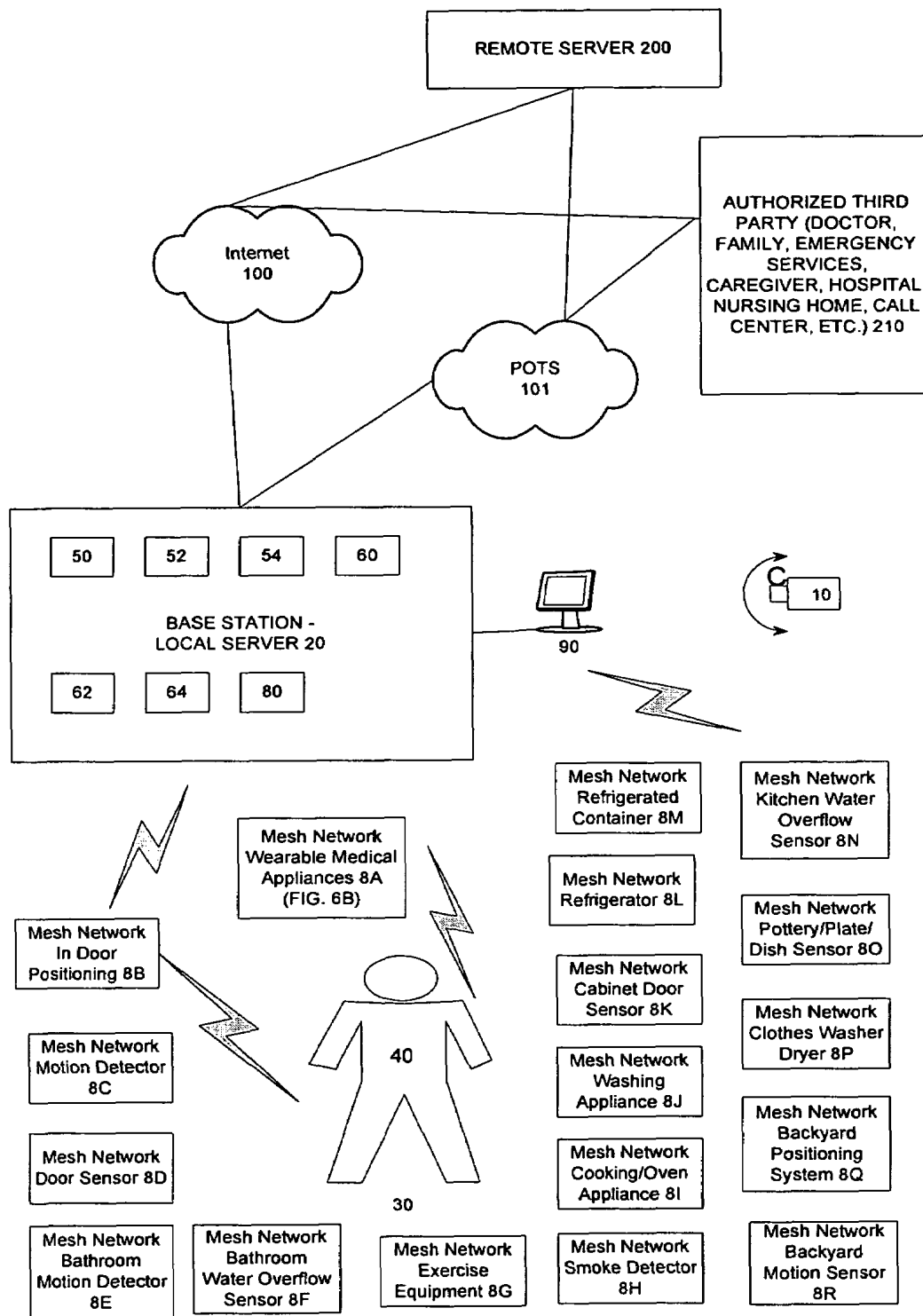
Family 13/23 - FAMPAT - ©Questel

**Title**

(US9901252)

Mesh network personal emergency response appliance

**Images**



#### Publication data including kind & date

|                              |    |            |               |
|------------------------------|----|------------|---------------|
| <a href="#">US2008001735</a> | A1 | 2008-01-03 | US20080001735 |
| <a href="#">US7733224</a>    | B2 | 2010-06-08 | US7733224     |
| <a href="#">US2011115624</a> | A1 | 2011-05-19 | US20110115624 |
| <a href="#">US2011181422</a> | A1 | 2011-07-28 | US20110181422 |
| <a href="#">US2012092157</a> | A1 | 2012-04-19 | US20120092157 |
| <a href="#">US2012092156</a> | A1 | 2012-04-19 | US20120092156 |
| <a href="#">US2013009783</a> | A1 | 2013-01-10 | US20130009783 |
| <a href="#">US8461988</a>    | B2 | 2013-06-11 | US8461988     |
| <a href="#">US2013211291</a> | A1 | 2013-08-15 | US20130211291 |
| <a href="#">US8525687</a>    | B2 | 2013-09-03 | US8525687     |
| <a href="#">US8525673</a>    | B2 | 2013-09-03 | US8525673     |



|                              |    |            |               |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|------------------------------|----|------------|---------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <a href="#">US8531291</a>    | B2 | 2013-09-10 | US8531291     |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| <a href="#">US8680991</a>    | B2 | 2014-03-25 | US8680991     |  |  |  |  |
| <a href="#">US2014104059</a> | A1 | 2014-04-17 | US20140104059 |  |  |  |  |
| <a href="#">US8747336</a>    | B2 | 2014-06-10 | US8747336     |  |  |  |  |
| <a href="#">US2014163425</a> | A1 | 2014-06-12 | US20140163425 |  |  |  |  |
| <a href="#">US2016140834</a> | A1 | 2016-05-19 | US20160140834 |  |  |  |  |
| <a href="#">US9351640</a>    | B2 | 2016-05-31 | US9351640     |  |  |  |  |
| <a href="#">US2016360965</a> | A1 | 2016-12-15 | US20160360965 |  |  |  |  |
| <a href="#">US9775520</a>    | B2 | 2017-10-03 | US9775520     |  |  |  |  |
| <a href="#">US2017347886</a> | A1 | 2017-12-07 | US20170347886 |  |  |  |  |
| <a href="#">US9901252</a>    | B2 | 2018-02-27 | US9901252     |  |  |  |  |

**Abstract**

(US9901252)

A monitoring system includes one or more wireless nodes forming a wireless mesh network; a user activity sensor including a wireless mesh transceiver adapted to communicate with the one or more wireless nodes using the wireless mesh network; and a digital monitoring agent coupled to the wireless transceiver through the wireless mesh network to request assistance from a third party based on the user activity sensor.

**Inventors**

TRAN BAO

**Latest standardized assignees - inventors removed**

PHILIPS

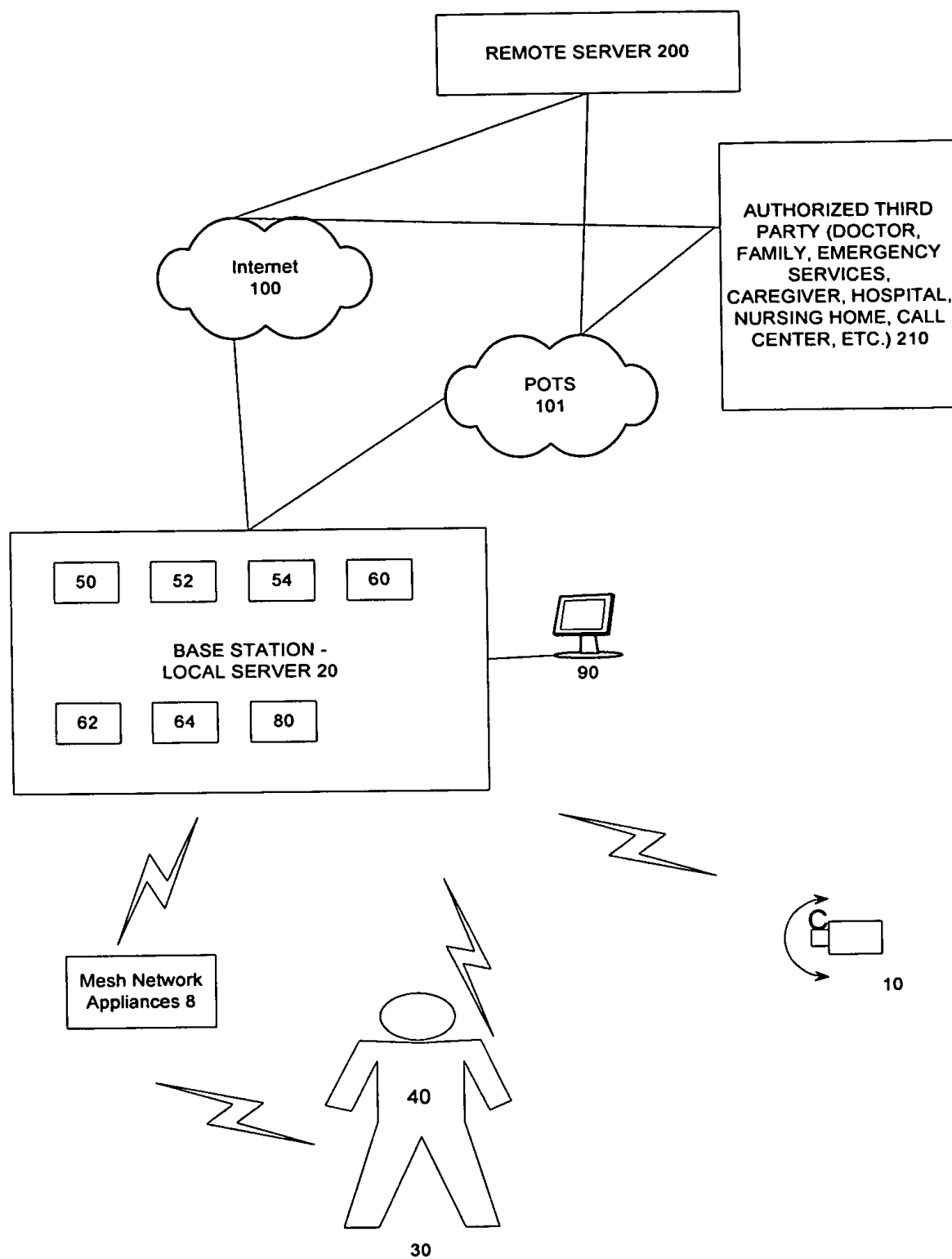
Family 14/23 - FAMPAT - ©Questel

**Title**

(US9107586)

Fitness monitoring

**Images**



#### Publication data including kind & date

|                              |    |            |               |
|------------------------------|----|------------|---------------|
| <a href="#">US2007276270</a> | A1 | 2007-11-29 | US20070276270 |
| <a href="#">US7558622</a>    | B2 | 2009-07-07 | US7558622     |
| <a href="#">US2009318779</a> | A1 | 2009-12-24 | US20090318779 |
| <a href="#">US8108036</a>    | B2 | 2012-01-31 | US8108036     |
| <a href="#">US2012330109</a> | A1 | 2012-12-27 | US20120330109 |
| <a href="#">US8449471</a>    | B2 | 2013-05-28 | US8449471     |
| <a href="#">US2013231574</a> | A1 | 2013-09-05 | US20130231574 |
| <a href="#">US8764651</a>    | B2 | 2014-07-01 | US8764651     |
| <a href="#">US2014249429</a> | A1 | 2014-09-04 | US20140249429 |
| <a href="#">US9107586</a>    | B2 | 2015-08-18 | US9107586     |
| <a href="#">US2015359467</a> | A1 | 2015-12-17 | US20150359467 |



**Abstract**

(US9107586)

A **mobile** system for a user includes a telephone having one or more sensors to capture fitness data or vital sign data, the telephone having a wireless transceiver coupled to the processor to communicate fitness or vital sign data over a personal area network; and a processor coupled to the personal area network to process the fitness or vital sign data.

**Inventors**

TRAN BAO

**Latest standardized assignees - inventors removed**

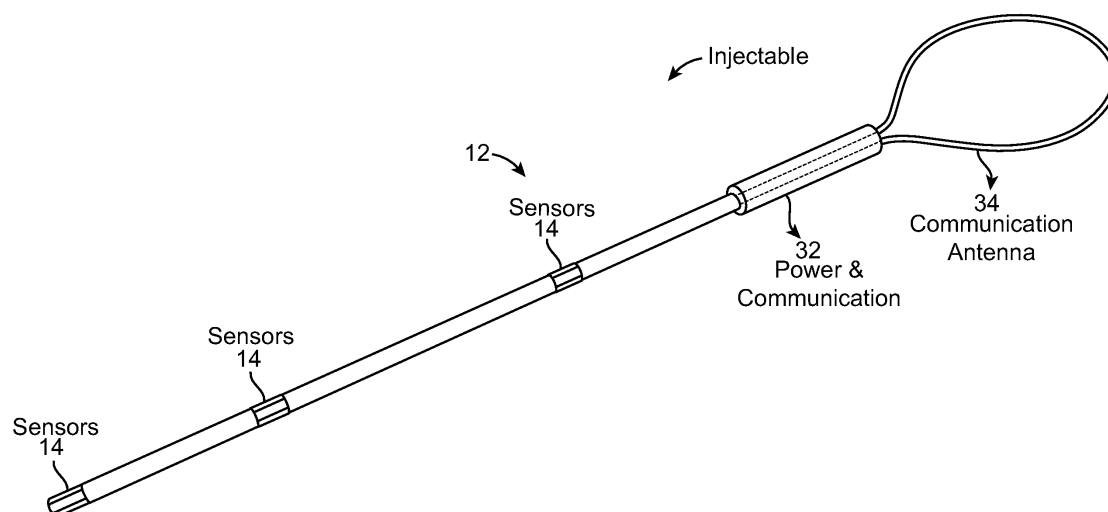
PHILIPS

Family 15/23 - FAMPAT - ©Questel

**Title**

(WO200936256)

Injectable physiological monitoring system

**Images****Publication data including kind & date**

|                              |    |            |               |
|------------------------------|----|------------|---------------|
| <a href="#">WO2009036256</a> | A1 | 2009-03-19 | WO200936256   |
| <a href="#">US2009076348</a> | A1 | 2009-03-19 | US20090076348 |
| <a href="#">US8684925</a>    | B2 | 2014-04-01 | US8684925     |
| <a href="#">US2014323821</a> | A1 | 2014-10-30 | US20140323821 |

**Abstract**

(WO200936256)

A system and method are provided for decompensation prediction of a heart failure patient with one or more injectable detecting systems communicating wirelessly with a **remote** monitoring system. The system includes one or more injectable detecting systems having a plurality of sensors that provide an indication of at least one physiological event of a patient, a wireless communication device coupled to the one or more injectable detecting systems and configured to transfer patient data directly or indirectly from the one or more injectable detecting systems to a **remote** monitoring system, and a **remote** monitoring system coupled to the wireless communication device, the **remote** monitoring system using processed data to determine heart failure status and predict impending decompensation of the patient.

**Inventors**

MAZAR SCOTT

BLY MARK

MANICKA YATHEENDHAR D

AMURTHUR BADRI

JAMES KRISTOFER

LIBBUS IMAD

WANG JERRY

**Latest standardized assignees - inventors removed**

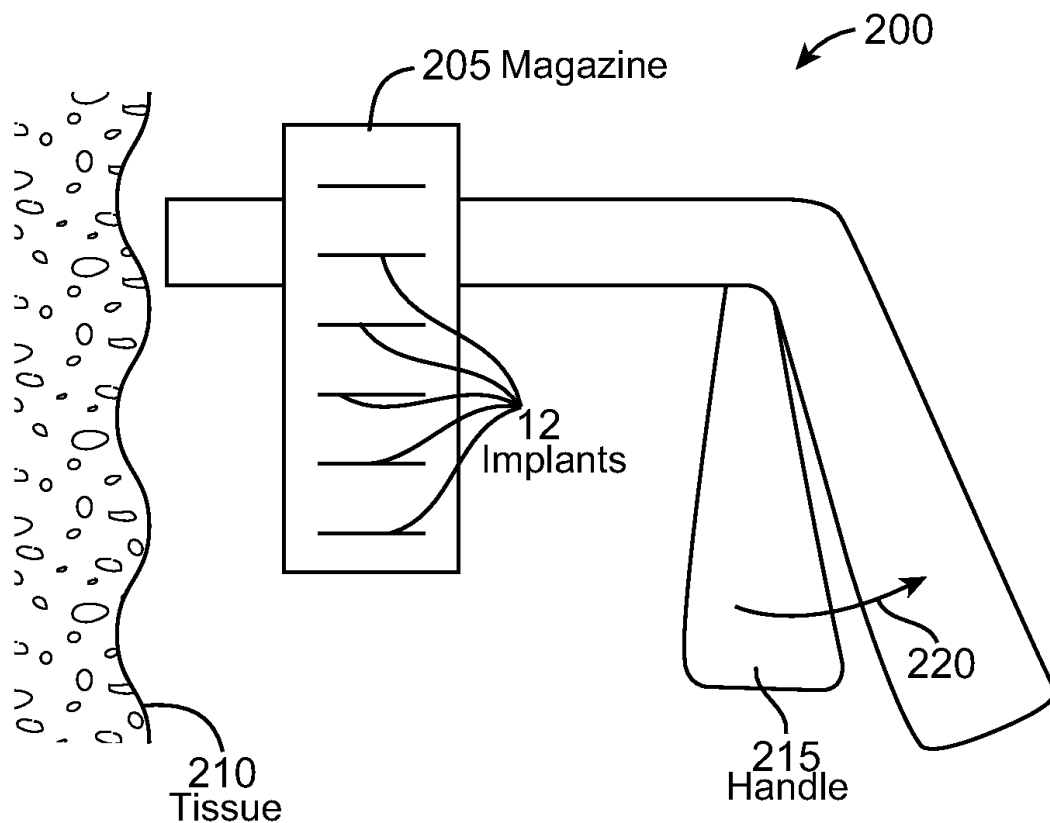
MEDTRONIC MONITORING

Family 16/23 - FAMPAT - ©Questel

**Title**

(US9538960)

Injectable physiological monitoring system

**Images****Publication data including kind & date**

|                              |    |            |               |
|------------------------------|----|------------|---------------|
| <a href="#">US2009076401</a> | A1 | 2009-03-19 | US20090076401 |
| <a href="#">US9186089</a>    | B2 | 2015-11-17 | US9186089     |
| <a href="#">US2016045169</a> | A1 | 2016-02-18 | US20160045169 |
| <a href="#">US9538960</a>    | B2 | 2017-01-10 | US9538960     |

**Abstract**

(US9538960)

An injectable device for use in a subcutaneous physiological monitoring of a patient includes a body, a plurality of sensors, and a monitoring unit. The plurality of sensors provide an indication of at least one physiological event of a patient, wherein the plurality of sensors includes two or more electrodes in contact with tissue of the patient. The monitoring unit is located within the body and is coupled to the plurality of sensors and configured to monitor a physiologic signal of the patient using the electrodes, wherein the physiologic signal includes an impedance signal related to hydration of tissue of the patient and wherein the monitoring unit is further configured to, based at least in part on the impedance signal measured from the patient, detect an impending cardiac decompensation of the patient.

**Inventors**

MAZAR SCOTT T

BLY MARK J

**Latest standardized assignees - inventors removed**

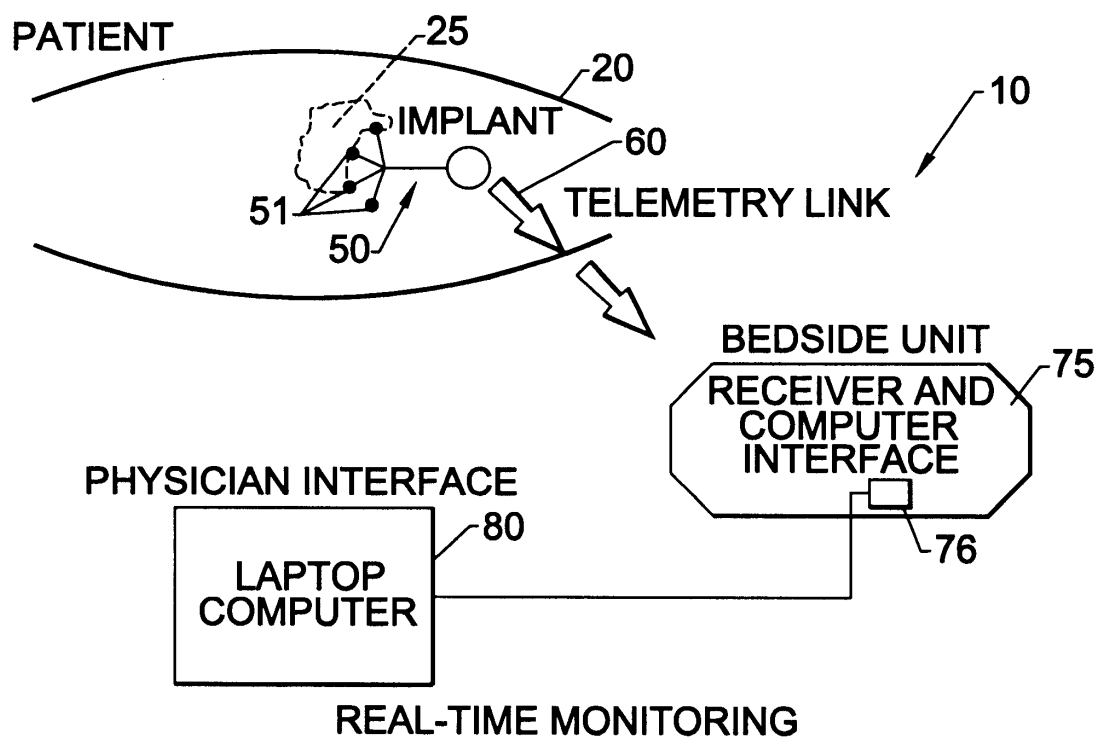
MEDTRONIC MONITORING

Family 17/23 - FAMPAT - ©Questel

**Title**

(EP1867275)

Systems comprising implantable devices for dynamic monitoring of tumors

**Images****Publication data including kind & date**

|                              |    |            |               |
|------------------------------|----|------------|---------------|
| <a href="#">WO200018294</a>  | A1 | 2000-04-06 | WO200018294   |
| <a href="#">CA2341724</a>    | A1 | 2000-04-06 | CA2341724     |
| <a href="#">AU6276499</a>    | A  | 2000-04-17 | AU9962764     |
| <a href="#">WO200122874</a>  | A1 | 2001-04-05 | WO200122874   |
| <a href="#">AU4042100</a>    | A  | 2001-04-30 | AU200040421   |
| <a href="#">EP1117328</a>    | A1 | 2001-07-25 | EP1117328     |
| <a href="#">US6402689</a>    | B1 | 2002-06-11 | US6402689     |
| <a href="#">EP1217940</a>    | A1 | 2002-07-03 | EP1217940     |
| <a href="#">JP2002525153</a> | A  | 2002-08-13 | JP2002525153  |
| <a href="#">US2002137991</a> | A1 | 2002-09-26 | US20020137991 |
| <a href="#">AU763446</a>     | B2 | 2003-07-24 | AU-763446     |
| <a href="#">US2003195396</a> | A1 | 2003-10-16 | US20030195396 |
| <a href="#">US2004230115</a> | A1 | 2004-11-18 | US20040230115 |
| <a href="#">US2005228247</a> | A1 | 2005-10-13 | US20050228247 |
| <a href="#">US6963771</a>    | B2 | 2005-11-08 | US6963771     |
| <a href="#">US6963770</a>    | B2 | 2005-11-08 | US6963770     |
| <a href="#">US2005251033</a> | A1 | 2005-11-10 | US20050251033 |



|              |    |            |               |                                                                                     |                                                                                      |                                                                                       |                                                                                       |
|--------------|----|------------|---------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| US7010340    | B2 | 2006-03-07 | US7010340     |    |    |    |    |
| US2006206026 | A1 | 2006-09-14 | US20060206026 |    |    |    |    |
| US2006241407 | A1 | 2006-10-26 | US20060241407 |    |    |    |    |
| US7171252    | B1 | 2007-01-30 | US7171252     |    |    |    |    |
| EP1867275    | A2 | 2007-12-19 | EP1867275     |    |    |    |    |
| EP1867275    | A3 | 2008-04-09 | EP1867275     |    |    |    |    |
| EP1117328    | B1 | 2008-09-17 | EP1117328     |    |    |    |    |
| AT408369     | T  | 2008-10-15 | ATE408369     |    |    |    |    |
| DE69939592   | D1 | 2008-10-30 | DE69939592    |    |    |    |    |
| PT1117328    | E  | 2008-12-02 | PT1117328     |    |    |    |    |
| DK1117328    | T3 | 2009-01-19 | DK1117328T    |    |    |    |    |
| ES2316193    | T3 | 2009-04-01 | ES2316193     |    |    |    |    |
| JP4365531    | B2 | 2009-11-18 | JP4365531     |    |    |    |    |
| US7756568    | B2 | 2010-07-13 | US7756568     |    |    |    |    |
| US7769431    | B2 | 2010-08-03 | US7769431     |    |    |    |    |
| US7778692    | B2 | 2010-08-17 | US7778692     |    |    |    |    |
| US7787937    | B2 | 2010-08-31 | US7787937     |    |    |    |    |
| US2010261983 | A1 | 2010-10-14 | US20100261983 |    |    |    |    |
| US2010268078 | A1 | 2010-10-21 | US20100268078 |    |    |    |    |
| EP1867275    | B1 | 2010-12-08 | EP1867275     |   |   |   |   |
| AT490725     | T  | 2010-12-15 | ATE490725     |  |  |  |  |
| CA2341724    | C  | 2010-12-21 | CA2341724     |  |  |  |  |
| DE69943029   | D1 | 2011-01-20 | DE69943029    |  |  |  |  |
| DK1867275    | T3 | 2011-04-04 | DK1867275T    |  |  |  |  |
| US8380290    | B2 | 2013-02-19 | US8380290     |  |  |  |  |
| US9662049    | B2 | 2017-05-30 | US9662049     |  |  |  |  |

## Abstract

(EP1867275)

Methods of monitoring and evaluating the status of a tumor undergoing treatment includes monitoring in vivo at least one physiological parameter associated with a tumor in a subject undergoing treatment, transmitting data from an in situ located sensor to a receiver external of the subject, analyzing the transmitted data, repeating the monitoring and transmitting steps at sequential points in time and evaluating a treatment strategy. The method provides dynamic tracking of the monitored parameters over time. The method can also include identifying in a substantially real time manner when conditions are favorable for treatment and when conditions are unfavorable for treatment and can verify or quantify how much of a known drug dose or radiation dose was actually received at the tumor. The method can include **remote** transmission from a non-clinical site to allow oversight of the tumor's condition even during non-active treatment periods (in between active treatments). The disclosure also includes monitoring systems with in situ in vivo biocompatible sensors and telemetry based operations and related computer program products.

## Inventors

SCARANTINO CHARLES W

NAGLE TROY H

HALL LESLIE C

MUELLER JEFFREY

KERMANI BAHRAM GHAFARZADEH DR

**Latest standardized assignees - inventors removed**

NORTH CAROLINA STATE UNIVERSITY

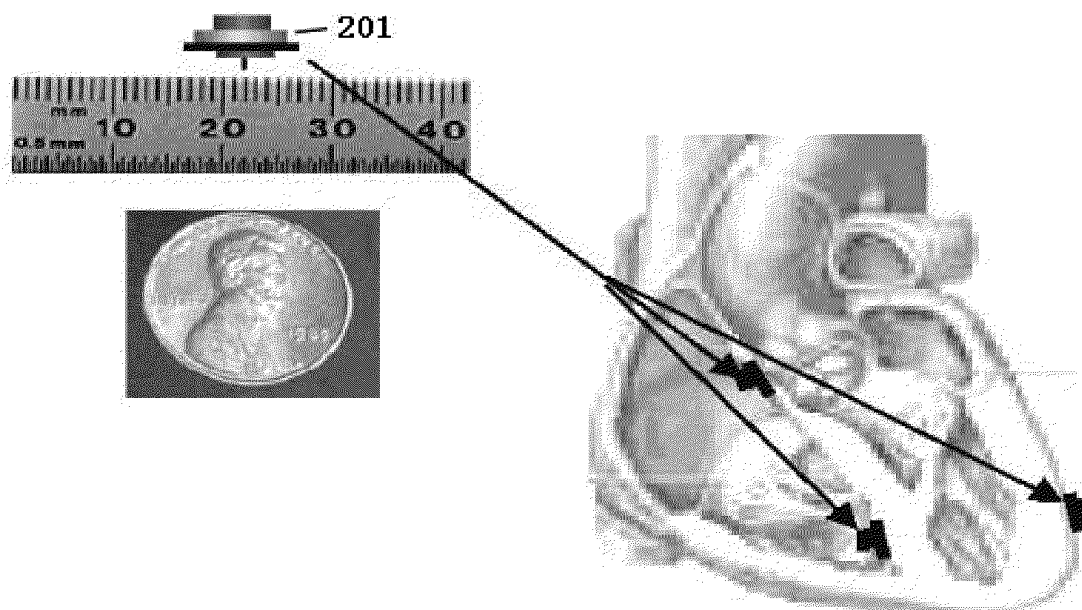
VTQ IP HOLDING

Family 18/23 - FAMPAT - ©Questel

**Title**

(EP2111890)

Non-electrode-lead ultra-thin micro multifunctional heart rate adjusting device

**Images****Publication data including kind & date**

|                                   |    |            |               |
|-----------------------------------|----|------------|---------------|
| <a href="#">WO2008101409</a>      | A1 | 2008-08-28 | WO2008101409  |
| <a href="#">CA2678288</a>         | A1 | 2008-08-28 | CA2678288     |
| <a href="#">AU2008217463</a>      | A1 | 2008-08-28 | AU2008217463  |
| <a href="#">CN101396582</a>       | A  | 2009-04-01 | CN101396582   |
| <a href="#">CN201316482</a>       | Y  | 2009-09-30 | CN201316482U  |
| <a href="#">EP2111890</a>         | A1 | 2009-10-28 | EP2111890     |
| <a href="#">IN5385/CHENP/2009</a> | A  | 2010-03-05 | IN2009CN05385 |
| <a href="#">US2010094367</a>      | A1 | 2010-04-15 | US2010094367  |
| <a href="#">EP2111890</a>         | A4 | 2010-06-09 | EP2111890     |
| <a href="#">CN101396582</a>       | B  | 2012-05-30 | CN101396582B  |
| <a href="#">AU2008217463</a>      | B2 | 2013-01-17 | AU2008217463  |

**Abstract**

(EP2111890)

A non-electrode-lead ultra-thin micro multifunctional heart rate adjusting device comprises an integrative ultra-thin micro non-electrode-lead pacemaker formed by assembling a micro battery, an ultra-low-power source circuit, a wireless receiving/transmitting circuit and an application circuit unit together, the needle electrodes are positioned on one side of the pacemaker and all of them form a small electrode body which can directly implanted into heart or external surface of heart; a multifunctional microcomputer heart rate adjusting **remote** controller connects with various non-electrode-lead pacemakers via wireless communication; the non-electrode-lead pacemakers and/or the heart rate adjusting **remote** controller connect with a control base station via wireless network, and the control base station connects with a computer.

**Inventors**

SEN LUYI

**Latest standardized assignees - inventors removed**

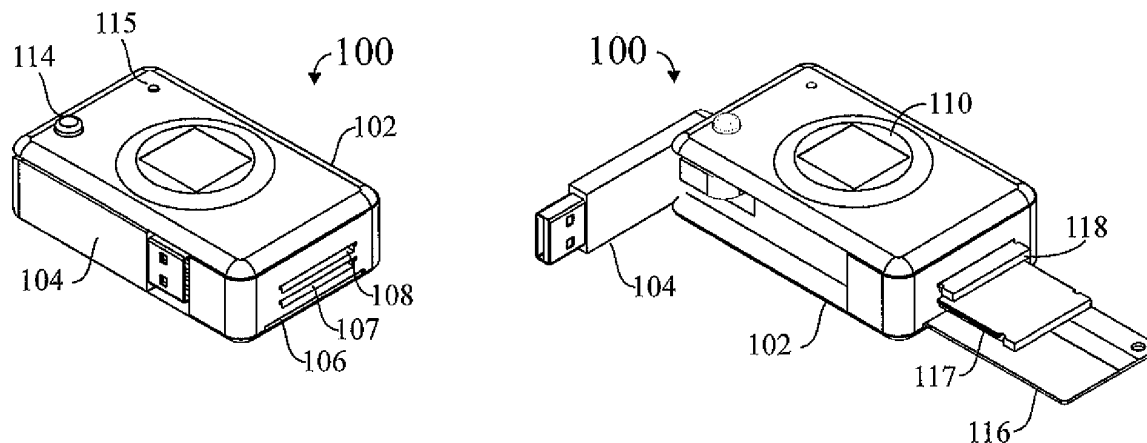
SUN MEDICAL SCIENTIFIC SHANGHAI

Family 19/23 - FAMPAT - ©Questel

**Title**

(EP1883892)

Rfid reader with multiple interfaces

**Images****Publication data including kind & date**

|                              |    |            |               |
|------------------------------|----|------------|---------------|
| <a href="#">US2006206582</a> | A1 | 2006-09-14 | US20060206582 |
| <a href="#">US2006208066</a> | A1 | 2006-09-21 | US20060208066 |
| <a href="#">US2006219776</a> | A1 | 2006-10-05 | US20060219776 |
| <a href="#">WO2007057786</a> | A2 | 2007-05-24 | WO200757786   |
| <a href="#">WO2007060547</a> | A2 | 2007-05-31 | WO200760547   |
| <a href="#">WO2007060547</a> | A3 | 2007-10-04 | WO200760547   |
| <a href="#">WO2007057786</a> | A3 | 2007-10-04 | WO200757786   |
| <a href="#">US2008014867</a> | A1 | 2008-01-17 | US20080014867 |
| <a href="#">EP1883892</a>    | A2 | 2008-02-06 | EP1883892     |
| <a href="#">US7597250</a>    | B2 | 2009-10-06 | US7597250     |
| <a href="#">US7748636</a>    | B2 | 2010-07-06 | US7748636     |
| <a href="#">US7762470</a>    | B2 | 2010-07-27 | US7762470     |

**Abstract**

(EP1883892)

A pocket-size RFID reader apparatus (100, 150) having a contactless interface (212) and a slot (106) for insertion of a contactless smart card fob (116, 166), and having a biometric sensor (110), thereby providing two levels of personalization. The apparatus may have a wireless interface (218); and a slot (107) for insertion of a wireless SD I/O device (117, 167). The apparatus may have a slot (108) for insertion of an external memory device (118). The apparatus may have a mechanical connection (contact) interface (104). The apparatus may also have an RF interface (234) for reading an electronic immobilizer (134) within the apparatus.

**Inventors**

FINN DAVID

**Latest standardized assignees - inventors removed**

DPD PATENT TRUST

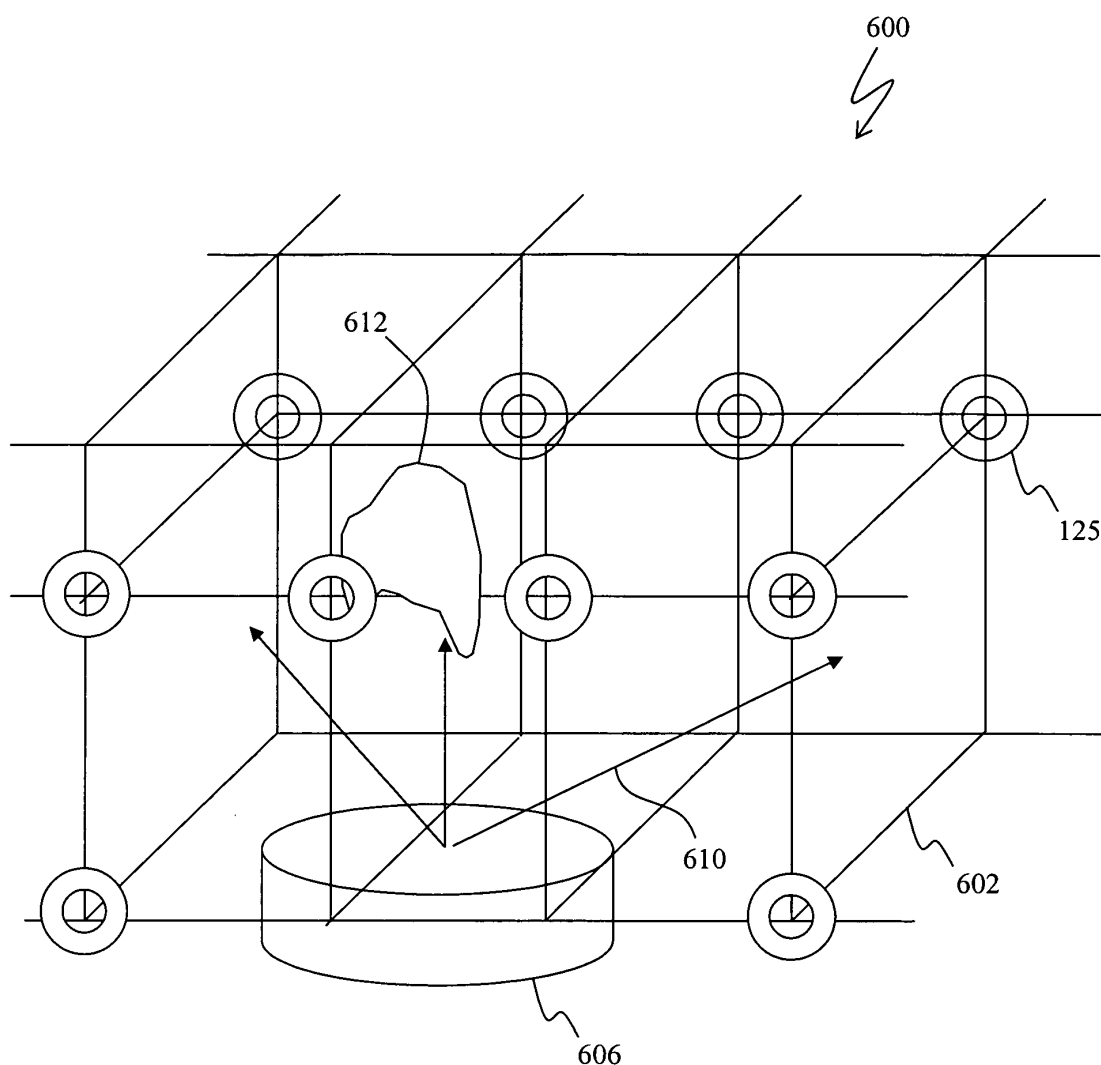
Family 20/23 - FAMPAT - ©Questel

**Title**

(EP1753506)

Leadless implantable cardioverter defibrillator

## Images



## Publication data including kind &amp; date

|                              |    |            |               |
|------------------------------|----|------------|---------------|
| <a href="#">WO2005107863</a> | A2 | 2005-11-17 | WO2005107863  |
| <a href="#">WO2005107864</a> | A1 | 2005-11-17 | WO2005107864  |
| <a href="#">WO2005107852</a> | A1 | 2005-11-17 | WO2005107852  |
| <a href="#">CA2565624</a>    | A1 | 2005-11-17 | CA2565624     |
| <a href="#">WO2005107863</a> | A3 | 2006-05-18 | WO2005107863  |
| <a href="#">US2006252976</a> | A1 | 2006-11-09 | US20060252976 |
| <a href="#">EP1744809</a>    | A1 | 2007-01-24 | EP1744809     |
| <a href="#">EP1747043</a>    | A2 | 2007-01-31 | EP1747043     |
| <a href="#">EP1753506</a>    | A1 | 2007-02-21 | EP1753506     |
| <a href="#">CN101039717</a>  | A  | 2007-09-19 | CN101039717   |
| <a href="#">CN101087630</a>  | A  | 2007-12-12 | CN101087630   |
| <a href="#">EP1747043</a>    | A4 | 2008-04-23 | EP1747043     |
| <a href="#">EP1744809</a>    | A4 | 2008-05-07 | EP1744809     |
| <a href="#">US2008119911</a> | A1 | 2008-05-22 | US20080119911 |
| <a href="#">EP1753506</a>    | A4 | 2008-06-11 | EP1753506     |
| <a href="#">CN101198372</a>  | A  | 2008-06-11 | CN101198372   |
| <a href="#">US2008269814</a> | A1 | 2008-10-30 | US20080269814 |
| <a href="#">US2008294210</a> | A1 | 2008-11-27 | US20080294210 |
| <a href="#">US8024020</a>    | B2 | 2011-09-20 | US8024020     |
| <a href="#">US2012041289</a> | A1 | 2012-02-16 | US20120041289 |



US8849416

B2 2014-09-30 US8849416

US8938300

B2 2015-01-20 US8938300

**Abstract**

(EP1753506)

A leadless implantable cardioverter defibrillator (5) for treatment of sudden cardiac death includes a controller and at least one **remote** module. The defibrillator does not require transvenous/vascular access for intracardiac lead placement. The controller is leadless and uses subcutaneous tissue in proximity of the chest and abdomen for both sensing and defibrillation. The controller and one or more **remote** sensors sense a need for defibrillation and wireless communicate with the controller. The controller and one of the sensors discharge a synchronized defibrillation pulse to the surrounding subcutaneous tissue in proximity to the heart.

**Inventors**

ROSE RO SPENCER

**Latest standardized assignees - inventors removed**

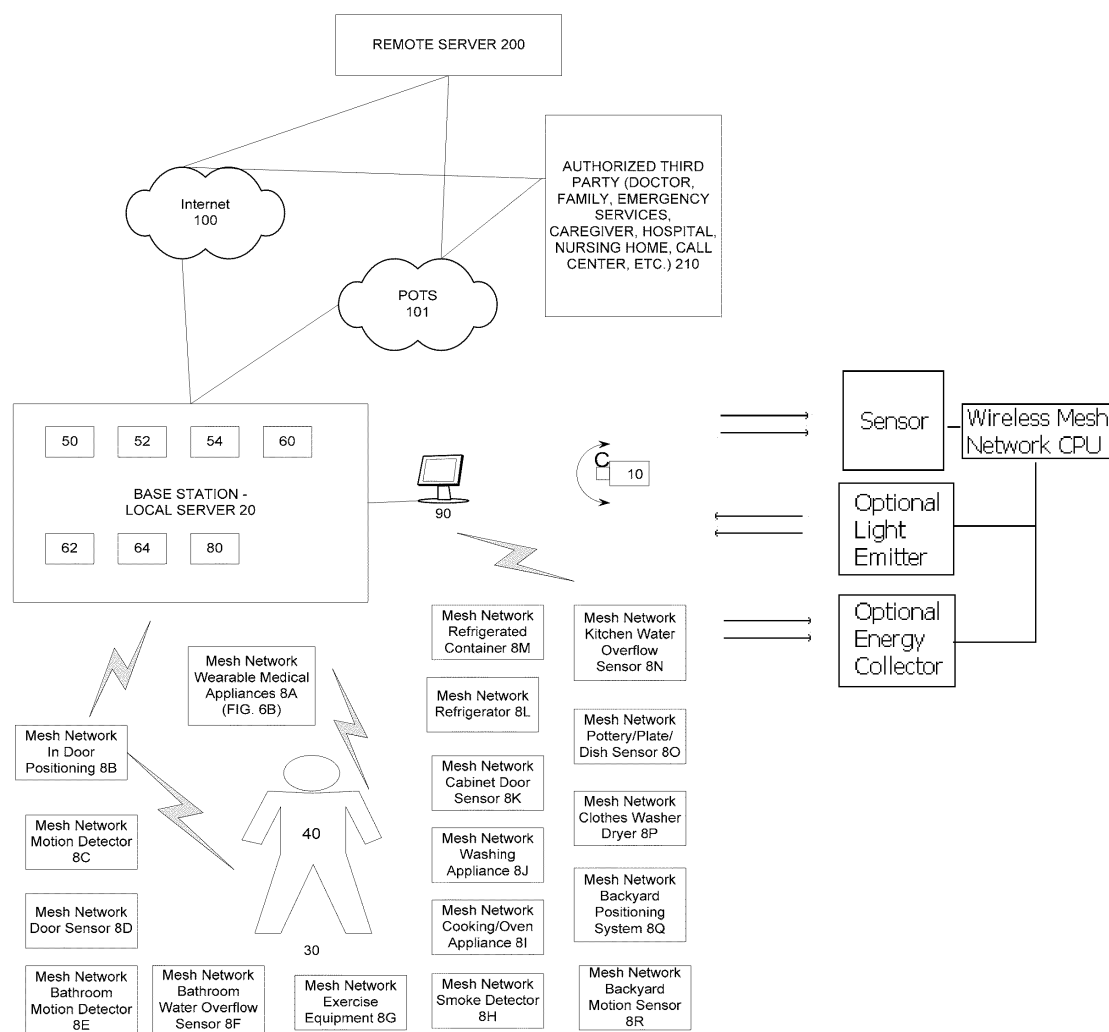
UNIVERSITY OF ROCHESTER

Family 21/23 - FAMPAT - ©Questel

**Title**

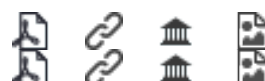
(US9204796)

Personal emergency response (PER) system

**Images****Publication data including kind & date**

US2014077946

A1 2014-03-20 US20140077946



[US9204796](#)

B2 2015-12-08 US9204796

**Abstract**

(US9204796)

A system includes one or more sensors to detect activities of a **mobile** object; and a processor coupled to the sensor and the wireless transceiver to classify sequences of motions into groups of similar postures each represented by a model and to apply the models to identify an activity of the object.

**Inventors**

TRAN BAO

**Latest standardized assignees - inventors removed**

EMPIRE IP

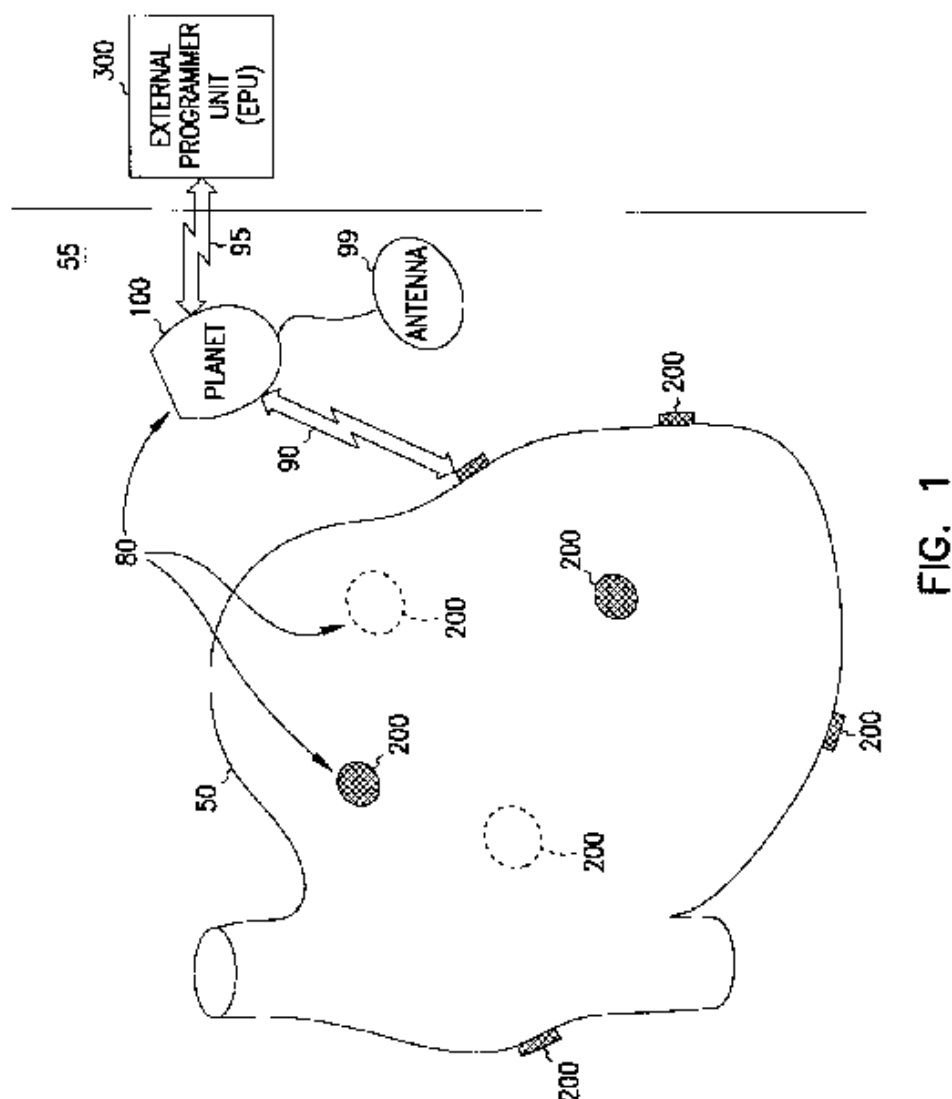
Family 22/23 - FAMPAT - ©Questel

**Title**

(US6141588)

Cardiac simulation system having multiple stimulators for anti-arrhythmia therapy

**Images**



# Publication data including kind & date

[US6141588](#)

A 2000-10-31 US6141588



## Abstract

(US6141588)

A medical system comprising a control device (referred to as a "planet") and a plurality of sensing and stimulating devices (referred to as "satellites") is disclosed. The satellites are relatively small devices that can be thoracoscopically attached to an exterior surface of the heart. The planet can be implanted if desired or, alternatively, externally retained. The planet is capable of wirelessly communicating (i.e., without a direct electrical connection) to each satellite. The planet individually commands each satellite to deliver pacing energy to the heart. Additionally, each satellite is capable of determining when a sense event has occurred at the site of that satellite and transmitting an encoded signal to the planet indicating that a sense event has occurred, along with an identifying code indicating to the planet which satellite detected the sense

event. The planet processes the encoded signals received from the network of satellites, assigns time values to each satellite when that satellite detects a sense event, compares the time values to a template of normal values, and determines if an arrhythmia has occurred if the time values do not match the template. Further, the planet selects and implements an appropriate pacing protocol to terminate the arrhythmia. The satellites derive their needed power from signals received from the planet via the wireless communication path.

#### Inventors

COX TIMOTHY J

ROSBOROUGH JOHN P

#### Latest standardized assignees - inventors removed

INTERMEDICS

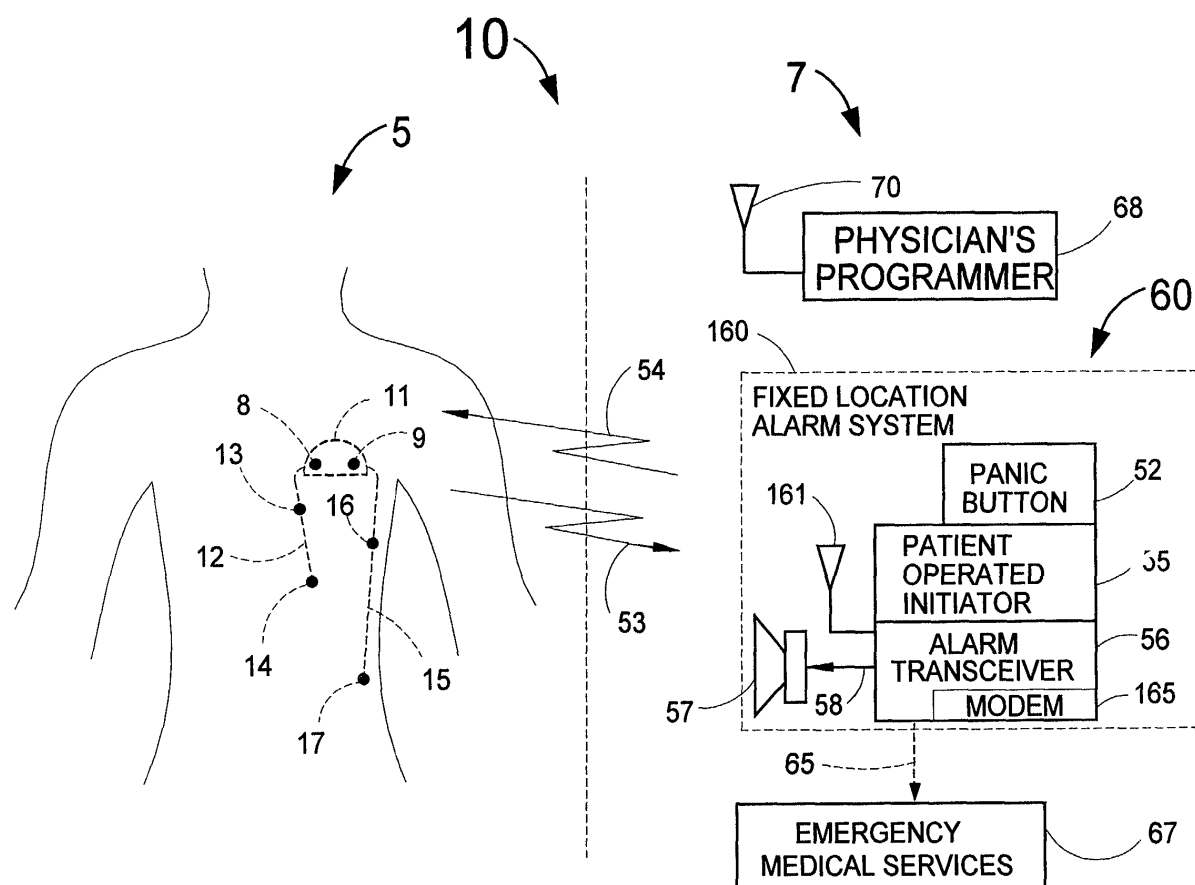
Family 23/23 - FAMPAT - ©Questel

#### Title

(US6985771)

Rapid response system for the detection and treatment of cardiac events

#### Images



#### Publication data including kind & date

[US2003139778](#) A1 2003-07-24 US20030139778

[US6985771](#) B2 2006-01-10 US6985771



#### Abstract

(US6985771)

Disclosed is a system for detecting an acute myocardial infarction (i.e., a heart attack) at the earliest possible time and promptly warning the patient that he should immediately seek medical care. The present invention includes an implantable electronic system that can sense a change in the patient's electrogram that is indicative of a heart attack. If a heart attack is sensed, the device would then cause an implantable and/or externally located alarm to be actuated to warn the patient of his condition and a medical practitioner at a **remote** diagnostic center would receive the patient's electrogram for analysis. The patient or a caretaker would then be informed to self-inject medication through a subcutaneous, pass-through

drug port that can be a separate device or integrated into the implanted device that is designed for the early detection of a heart attack. Since an implantable heart pacemaker or defibrillator already has within its structure many of the elements required for the device to recognize a heart attack, it would be expeditious to add a capability to these existing devices to detect a heart attack, have a pass-through drug port and provide an implantable and/or external alarm means to inform the patient to take appropriate action.

**Inventors**

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FISCHELL DAVID R

FISCHELL TIM A

**Latest standardized assignees - inventors removed**

ANGEL MEDICAL SYSTEMS