

Diego Gonzalez

Search history

Search 1: STAC=(catheter and vein and pressure and (sensor or transduct*) and fluid) (Results 150)

Search 2: STAC=(catheter and vein and pressure and (sensor or transduct*) and fluid and IV) (Results 28)

Search 3: STAC=(catheter and vein and pressure and (sensor or transduct*) and fluid and IV and frequency) (Results 7)

Title: HYPOVOLEMIA/HYPERVOLEMIA DETECTION USING PERIPHERAL INTRAVENOUS WAVEFORM ANALYSIS (PIVA) AND APPLICATIONS OF SAME

Abstract: Aspects of the invention relates to systems and methods for hypovolemia and/or hypervolemia detection of a living subject using peripheral intravenous waveform analysis. In one embodiment, the method includes: acquiring, from a vein of the living subject, peripheral venous signals; performing a spectral analysis on the acquired peripheral venous signals to obtain a peripheral venous pressure frequency spectrum; and performing a statistical analysis on amplitudes of peaks of the peripheral venous pressure frequency spectrum to determine the blood volume status of the living subject in real time. Specifically, at least two peaks, respectively corresponding to a first frequency and a second frequency, are obtained on the peripheral venous pressure frequency spectrum. Amplitude change of the second peak is used to determine the blood volume status of the living subject. Hemorrhage may be detected when a significant amplitude decrease is detected from the second baseline peak to the second peak.

Classifications:

International (IPC 8-9): A61B10/00 A61B5/00 A61B5/02 A61B5/021 A61B5/0215 A61B5/024 A61B5/027 A61B5/08 A61M25/01 A61M5/142 A61M5/158 A61M5/165 A61M5/168 A61M5/172 G06F19/00 (Advanced/Invention); A61B5/024 A61B5/08 (Advanced/Non-invention)

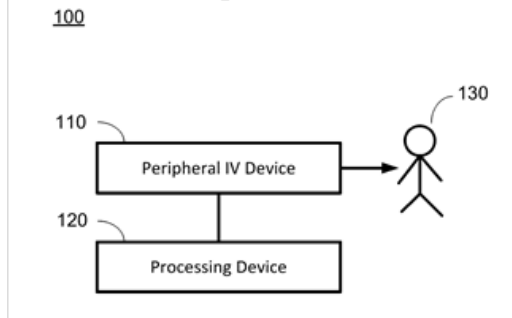
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US: 600/485 600/486

JP F-Term: 4C017 4C017/AA09 4C017/AA20 4C017/AB10 4C017/AC03 4C017/BC11 4C017/BC16 4C017/BC20 4C017/BD06 4C017/CC02 4C017/FF30 4C017/AA02 4C017/AA06 4C017/AA08 4C017/AA12 4C017/AA14 4C017/AB02 4C017/FF05 4C029 4C066 4C066/AA07 4C066/BB01 4C066/CC01 4C066/DD11 4C066/FF01 4C066/QQ25 4C066/QQ52 4C066/QQ53 4C066/QQ56 4C066/QQ62 4C066/QQ64 4C066/QQ65 4C066/QQ72 4C066/QQ82 4C066/QQ92 4C066/QQ17 4C066/QQ46 4C066/QQ58

JP F-Index: A61B5/02/610/C A61B5/02/815 A61B5/0215/C A61B5/027 A61B10/00/G A61B10/00/K A61B5/02/A A61B5/02/310/N A61B5/02/310/Z A61M5/142/530 A61M5/168/510

PatBase - US2016073959_AA

**Family:**

Publication number	Publication date	Application number	Application date
AU2015346054 AA	20160519	AU20150346054	20151113
BR112017005003 A2	20180605	BR201711105003	20150914
BR112017016723 A2	20180619	BR20171116723	20160203
CA2961195 AA	20170313	CA20152961195	20150914
CA2967634 AA	20170511	CA20152967634	20151113
CA2975604 AA	20170801	CA20162975604	20160203
CN106999061 A	20170801	CN201580049227	20150914
CN106999064 A	20170801	CN201580063695	20151113
CN107257652 A	20171017	CN201680008685	20160203
CO20170003535 A2	20170719	CO20170003535	20170412
CO20170007842 A2	20171020	CO20170007842	20170802
EP3190960 A1	20170719	EP20150840046	20150914
EP3190960 A4	20180502	EP20150840046	20150914
EP3217863 A1	20170920	EP20150859906	20151113
EP3253432 A1	20171213	EP20160747218	20160203
JP2017530766 T2	20171019	JP20170513668T	20150914
JP2018502612 T2	20180201	JP20170525386T	20151113
JP2018503499 T2	20180208	JP20170559291T	20160203
KR20170082621 A	20170714	KR20177016035	20151113
MX2017003272 A1	20170707	MX20170003272	20150914
MX2017006318 A1	20180213	MX20170006318	20151113
MX2017010008 A1	20171122	MX20170010008	20160203
SG11201701987V A1	20170427	SG20171101987	20150914
SG11201703795S A1	20170629	SG20171103795	20151113
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US2016073959 AA	20160317	US20150853504	20150914
US2017332919 AA	20171123	US20150525748	20151113
US2018020935 AA	20180125	US20160547935	20160203
WO16040947 A1	20160317	WO2015US50001	20150914
WO16077765 A1	20160519	WO2015US60697	20151113
WO16126856 A1	20160811	WO2016US16420	20160203

Priority:

US20140049829P 20140912	US20140079367P 20141113	US20150111337P 20150203
US20150853504 20150914	WO2015US50001 20150914	US20150525748 20151113
WO2015US60697 20151113	US20160547935 20160203	WO2016US16420 20160203

Probable Assignee: VANDERBILT UNIV

Assignee(s): (std): VANDERBILT UNIV ; UNIV VANDERBILT ; VANDERBILT UNIVERSTIY

Assignee(s): HOCKING KYLE MITCHELL ; HOCKING KYLE ; BAUDENBACHER FRANZ ; BOYER RICHARD ; BROPHY COLLEEN ; EAGLE SUSAN ; EAGLE SUSAN S

Inventor(s): (std): BAUDENBACHER FRANZ ; BOYER FRANKLIN ; BOYER RICHARD ; BROPHY COLLEEN ; COLLEEN BROPHY ; EAGLE SUSAN ; EAGLE SUSAN S ; FRANZ BAUDENBACHER ; HOCKING KYLE ; HOCKING KYLE MITCHELL ; KYLE HOCKING ; KYLE MITCHELL HOCKING ; RICHARD BOYER ; SUSAN EAGLE ; SUSAN S EAGLE

Agent(s): SPRUSON AND FERGUSON; GOWLING WLG CANADA LLP; OSLER HOSKIN AND HARCOURT LLP; CAROLINA MERCEDES DAZA MONTALVO; WEICKMANN AND WEICKMANN PARTMBB; ZWICKER JOERK; ONDA MAKOTO; ONDA HIRONORI; XIA TIM TINGKANG

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR

CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID
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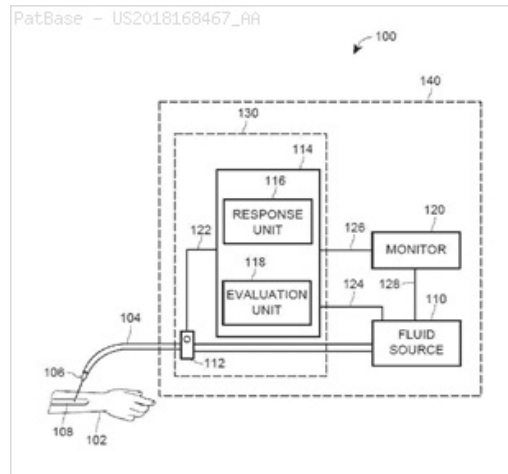
Title: SYSTEM AND METHOD FOR MONITORING AND DETERMINING PATIENT PARAMETERS FROM SENSED VENOUS WAVEFORM

Abstract: Devices, systems, and methods for monitoring patient hemodynamic status, systemic vascular resistance, reversal of cardiac and respiratory rates, and patient respiratory volume or effort are disclosed. A peripheral venous **pressure** is measured and used to detect levels, changes, or problems relating to patient blood volume. The peripheral venous **pressure** measurement is transformed from the time domain to the **frequency** domain for analysis. A heart rate **frequency** is identified, and harmonics of the heart rate **frequency** are detected and evaluated to determine, among other things, hypovolemia or hypervolemia, systemic vascular resistance, and of cardiac and respiratory rates, and patient respiratory volume or effort.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/02 A61B5/0215
A61B5/024 A61B5/0295 A61B5/08 A61B5/091 A61M16/00
A61M25/00 A61M5/172 (Advanced/Invention)

CPC: A61B5/02152 A61B5/6876 A61M5/1723 A61B5/0295
A61B5/746 A61B5/486 A61M2230/06 A61B5/7278 A61B5/7257
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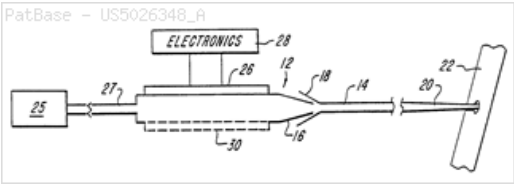


Title: APPARATUS AND METHOD FOR THE DETECTION OF **IV CATHETER** OBSTRUCTION AND EXTRAVASATION

Abstract: An in-line **fluid** conduit condition analyzer which includes a chamber placed in the conduit flow path and having one wall forming a piezoceramic bender that varies the chamber volume (or **pressure**) according to a predetermined waveform or noise spectrum and an associated piezoceramic **pressure** or displacement **sensor**. The time derivative of the displacement or the **pressure** are analyzed under computer control to identify conduit abnormalities. In particular application to intravenous **fluid** administration to patients, the system is capable of distinguishing a number of abnormalities including catheter obstruction, **catheter** needle out of the **vein**, **catheter** needle into the **vein**, as well as **fluid** bubble presence or conduit disconnection.

Classifications:

International (IPC 8-9): A61M5/168 G01N29/04 (Advanced/Invention);
A61M5/168 (Core/Invention)
International (IPC 1-7): A61M5/00 G01N29/02 G08B21/00
CPC: Y10S128/13 A61M5/16859
European: A61M5/168D4B
US: 128/DIG.13 604/122 604/65 73/19.01 73/19.03



Family:

Publication number	Publication date	Application number	Application date
AU198937741 A1	19900105	AU19890037741	19890523
US5026348 A	19910625	US19880203280	19880606
WO8912228 A1	19891214	WO1989US02271	19890523

Priority:

US19880203280 19880606 WO1989US02271 19890523

Probable Assignee:

GENERAL HOSPITAL CORP

Assignee(s): (std):

GEN HOSPITAL CORP

Assignee(s):

GENERAL HOSPITAL CORP

Inventor(s): (std):

VENEGAS JOSE G

Inventor(s):

JOSE G VENEGAS

Designated states:

AT AU BE CH DE FR GB IT JP LU NL SE

Title: NONINVASIVE VITAL SIGN MEASUREMENT DEVICE

Abstract: A blood monitoring device comprising a body having a proximal and distal transducers spaced apart and connected to both device drivers and recognition and analysis devices. A power source is connected to both device drivers and the recognition and analysis devices. The device driver is also connected to the recognition and analysis devices.

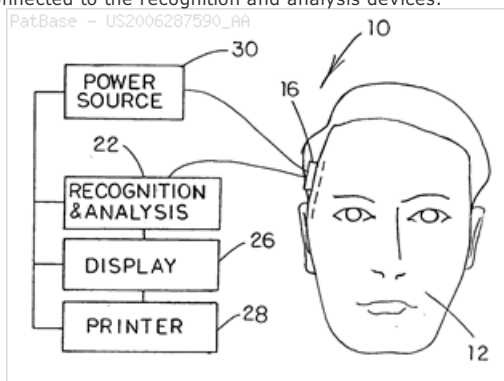
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CPC: A61B3/16 A61B2562/0238 A61B5/486 A61B5/029 A61B5/14503 A61B2505/01 A61B2505/03 A61B5/02055 A61B5/02007 A61B5/02028 A61B5/021 A61B5/02116 A61B5/02125 A61B5/0215 A61B5/024 A61B5/0285 A61B5/03 A61B5/14535 A61B5/14546 A61B5/14551 A61B5/1459 A61B5/412 A61B5/6817 A61B8/06 A61B8/12 A61B2560/0252 A61B2560/0257

European: A61B3/16 A61B5/0205B A61B5/021 A61B5/0215 A61B5/021B2 A61B5/021B4 A61B5/024 A61B5/0285 A61B5/02D A61B5/02F A61B5/1455N A61B5/1459 A61B5/145H A61B5/145P A61B5/41D A61B5/68B2B1D A61B8/06 A61B8/12 K61B5/024 K61B5/03 K61B560/02F2B K61B560/02F2D K61B562/02G2

US: 1/1 600/301 600/301P 600/309 600/309S 600/331 600/331P 600/366 600/368 600/368S 600/438 600/474 600/474S 600/481 600/481P 600/485 600/485S

**Family:**

Publication number	Publication date	Application number	Application date
AU2006287305 AA	20070315	AU20060287305	20060908
AU2006287305 BB	20110616	AU20060287305	20060908
CA2621120 AA	20080303	CA20062621120	20060908
CA2621120 C	20150505	CA20062621120	20060908
CA2915800 AA	20151216	CA20142915800	20140616
EP1942797 A2	20080716	EP20060803305	20060908
EP1942797 A4	20120620	EP20060803305	20060908
IL190015 A0	20080807	IL20080190015	20080309
IL190015 A1	20120329	IL20060190015	20060908
IL243046 A0	20160131	IL20140243046	20140616
US2006287590 AA	20061221	US20040944161	20040917
US2006287600 AA	20061221	US20050223406	20050909
US2009270695 AA	20091029	US20090501730	20090713
US2014296677 AA	20141002	US20140304132	20140613
US7559894 BB	20090714	US20050223406	20050909
US9131855 BB	20150915	US20090501730	20090713
WO07030810 A2	20070315	WO2006US35234	20060908
WO07030810 A3	20070712	WO2006US35234	20060908
WO14204841 A1	20141224	WO2014US42497	20140616
ZA200801971 A	20090826	ZA20080001971	20080229

Priority:

US20030504295P 20030918	US20040944161 20040917	US20050223406 20050909
WO2006US35234 20060908	US20090501730 20090713	US20130835759P 20130617
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Probable Assignee: NEW PARADIGM CONCEPTS LLC

Assignee(s): (std): MCEOWEN EDWIN L ; NEW PARADIGM CONCEPTS LLC

Inventor(s): (std): MCEOWEN EDWIN L

Inventor(s): EDWIN L MCEOWEN ; MCEOWEN EDWIN

Agent(s): SPRUSON AND FERGUSON; SMART AND BIGGAR; RIDOUT AND MAYBEE LLP; ELSY DAVID ET AL; DR SHLOMO COHEN AND CO; BARNES AND THORNBURG LLP; WEVER MICHAEL E

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

Title: POLYMER COMPOSITIONS AND METHODS FOR THEIR USE

Abstract: Compositions comprising anti-fibrotic agent(s) and/or polymeric compositions can be used in various medical applications including the prevention of surgical adhesions, treatment of inflammatory arthritis, treatment of scars and keloids, the treatment of vascular disease, and the prevention of cartilage loss.

Classifications:

International (IPC 8-9): A61B17/068 A61B17/12 A61F2/02 A61F2/06 A61F2/16 A61F2/20 A61F2/24 A61F2/26 A61F2/44 A61F2/84 A61K31/337 A61K31/4745 A61K31/65 A61K45/00 A61K45/06 A61K47/34 A61L27/00 A61L29/00 A61L31/00 A61L31/10 A61L31/16 A61M1/12 A61M25/00 A61M25/01 A61P17/00 A61P17/02 A61P19/00 A61P29/00 A61P31/10 A61P41/00 A61P9/00 A61P9/10 (Advanced/Invention); A61B17/068 A61B17/12 A61F2/02 A61F2/06 A61F2/16 A61F2/20 A61F2/24 A61F2/26 A61F2/44 A61F2/82 A61K45/00 A61L27/00 A61L29/00 A61L31/00 A61L31/08 A61L31/14 A61M1/10 A61M25/00 A61M25/01 A61P17/00 A61P19/00 A61P29/00 A61P31/00 A61P9/00 (Core/Invention); A61L (Subclass/Invention)

International (IPC 1-7): A61L31/00 A61L31/00

CPC: A61L31/10 A61L31/16 A61L2300/404 A61L2300/416

European: A61L31/10 A61L31/16 K61L300/404 K61L300/416

JP F-Term: 4C060 4C060/CC02 4C060/CC03 4C060/CC06 4C060/DD02 4C060/DD03 4C060/DD11 4C077 4C077/AA09 4C077/DD01 4C077/DD30 4C081 4C081/AB04 4C081/AB12 4C081/AB17 4C081/AB22 4C081/AB31 4C081/AC03 4C081/AC09 4C081/BA13 4C081/BA17 4C081/CA16 4C081/CC02 4C081/CD08 4C081/CD11 4C081/CD12 4C081/CD15 4C081/CE02 4C081/CG07 4C084 4C084/AA17 4C084/MA02 4C084/ZA36 4C084/ZA45 4C084/ZA96 4C084/ZB11 4C084/ZB15 4C097 4C097/AA10 4C097/AA15 4C097/AA16 4C097/AA17 4C097/AA20 4C097/AA25 4C097/AA27 4C097/AA28 4C097/BB01 4C097/DD02 4C097/DD05 4C097/DD09 4C097/DD15 4C097/EE02 4C097/EE08 4C097/EE11 4C097/EE12 4C097/SA00 4C097/SB00 4C160 4C160/BB00 4C160/CC03 4C160/CC06 4C160/DD03 4C160/DD12 4C160/EE01 4C160/FF42 4C160/GG13 4C160/GG19 4C160/JK10 4C160/LL24 4C160/LL31 4C160/LL32 4C160/LL42 4C160/LL70 4C160/MM13 4C160/MM37 4C160/NN04 4C167 4C167/AA14 4C167/AA28 4C167/AA41 4C167/AA50 4C167/BB27 4C167/BB63 4C167/CC08 4C167/CC14 4C167/CC15 4C167/CC20 4C167/CC21 4C167/CC22 4C167/CC23 4C167/CC24 4C167/EE08 4C167/GG07 4C167/GG08 4C167/GG11 4C167/GG12 4C167/GG16 4C167/GG21 4C167/GG43 4C201

JP F-Index: A61B17/04 A61B17/068 A61B17/10/320 A61B17/11 A61B17/115 A61B17/12/320 A61B17/22/528 A61B17/70 A61F2/01 A61F2/02 A61F2/06 A61F2/16 A61F2/20 A61F2/24 A61F2/26 A61F2/44 A61K45/00 A61L27/00/E A61L27/00/P A61L27/00/Z A61L27/18 A61L27/20 A61L27/22 A61L27/24 A61L27/36/100 A61L27/50/300 A61L27/54 A61L27/58 A61L29/00/Z A61L29/04 A61L29/06 A61L29/14/500 A61L29/16 A61L31/00/Z A61L31/04/120 A61L31/06 A61L31/14/500 A61L31/16 A61L31/18 A61L33/14 A61M1/12 A61M1/28 A61M25/00/410 A61M25/00/450/B A61M37/00/550 A61P17/00 A61P29/00 A61P9/00

Family:

Publication number	Publication date	Application number	Application date
AU2004293071 AA	20050609	AU20040293071	20041122
CA2536181 AA	20060215	CA20042536181	20041122
EP1684819 A2	20060802	EP20040816983	20041122
HK1093924 A3	20070316	HK20070100645	20070118
IL174641 A0	20060820	IL20040174641	20041122
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WO05051316 A2	20050609	WO2004US39491	20041122
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Priority:

US20030523908P 20031120	US20030525226P 20031124	US20030526541P 20031203
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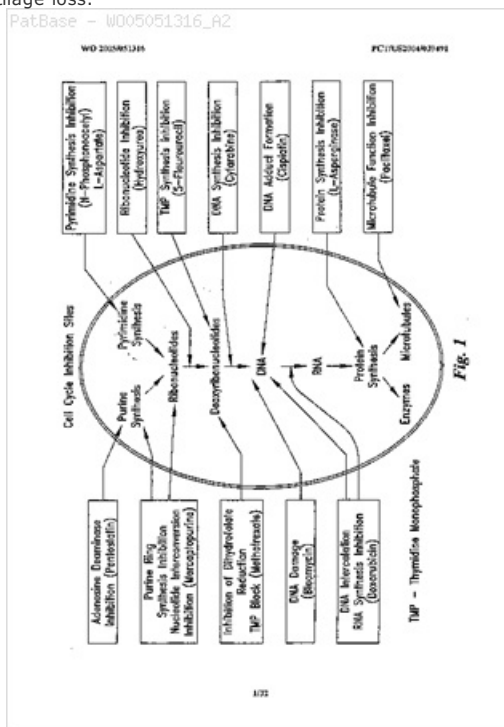
Probable Assignee: ANGIOTECH INT AG

Assignee(s): (std): HUNTER WILLIAM L ; LIGGINS RICHARD T ; LOSS TROY A E ; GRAVETT DAVID M ; GUAN DECHI ; TAKACS COX ANIKO ; MAITI ARPITA ; TOLEIKIS PHILIP M ; WANG KAIYUE ; ANGIOTECH INT AG ; ANGIOTECH INTERNAT AG ; AVELAR RUI

Assignee(s): LOSS TROY A ; ANGIOTECH INT ; ANGIOTECH INTERNATIONAL AG ; ANGIOTECH INT AGDAMMSTRASSE 19CH-6300ZUGCH ; MAITI ARPITA211-2920 ASH STREETVANCOUVERB1V5Z 4A6CA ; WANG KAIYUE46 WATLING STREETBURNABYB1V5J 1W1CA ; LOSS TROY A E3-1536 EASTERN AVENUE, NORTHVANCOUVERB1V7L 3G1CA ; TOLEIKIS PHILIP M8011 LABURNUM ST.VANCOUVERB1V6P 5N8CA ; TAKACS COX ANIKO103-4390 GALLANT AVENUE NORTH VANCOUVERB1V7G 1L2CA ; AVELAR RUI1989 KING EDWARD AVENUE WESTVANCOUVERB1V6J 2W7CA ; LIGGINS RICHARD T407 LAKEVIEW STREETCOQUITLAMB1V5Z 4A6CA ; GUAN DECHI8363 SHAUGHNESSY STREETVANCOUVERB1V6P 3Y1CA ; GRAVETT DAVID M616 W. 21ST AVE.VANCOUVERB1V5Z 1Y8CA ; HUNTER WILLIAM L1618 STATION STREETVANCOUVERB1V6A 1B6CA ; IPXMEDICAL LLC

Inventor(s): (std): WANG KAIYUE ; WILLIAM L HUNTER ; TROY A E LOSS ; RUI AVELAR ; RICHARD T LIGGINS ; PHILIP M TOLEIKIS ; DAVID M GRAVETT ; ARPITA MAITI ; ANIKO TAKACS COX ; TOLEIKIS PHILIP M ; TAKACS COX ANIKO ; MAITI ARPITA ; LOSS TROY A E ; LIGGINS RICHARD T ; HUNTER WILLIAM L ; GUAN DECHI ; GRAVETT DAVID M ; AVELAR RUI

Inventor(s): LOSS TROY A ; LOSS TROY AE ; WANG KAIYUE46 WATLING STREETBURNABYB1V5J 1W1CA ; TOLEIKIS PHILIP M8011 LABURNUM ST.VANCOUVERB1V6P 5N8CA ; TAKACS COX ANIKO103-4390 GALLANT AVENUE NORTH VANCOUVERB1V7G 1L2CA ; MAITI ARPITA211-2920 ASH STREETVANCOUVERB1V5Z 4A6CA ; LOSS TROY A E3-1536 EASTERN AVENUE, NORTHVANCOUVERB1V7L 3G1CA ; LIGGINS RICHARD T407 LAKEVIEW STREETCOQUITLAMB1V5Z 4A6CA ; HUNTER WILLIAM L1618 STATION STREETVANCOUVERB1V6A 1B6CA ; GUAN DECHI8363 SHAUGHNESSY STREETVANCOUVERB1V6P 3Y1CA ; GRAVETT DAVID M616 W. 21ST AVE.VANCOUVERB1V5Z 1Y8CA ; AVELAR RUI1989 KING



EDWARD AVENUE WESTVANCOUVERB1V6J 2W7CA

Agent(s):

DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; BARRIGAR INTELLECTUAL PROPERTY
LAW; BERESKIN AND PARR LLP SENCRL SRL

Designated states:

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

Title: METHOD, APPARATUS AND SYSTEM FOR TREATING BIOFILMS ASSOCIATED WITH **CATHETERS**

Abstract: An apparatus, system and method for preventing or treating biofilm associated with **catheters**. A piezo-ceramic element may be attached to a **catheter**, and a vibration processor may be connected to the piezo-ceramic element. The vibration processor may provide electric signals that generate acoustic vibrations in the piezo-ceramic element, causing vibrations in or around the **catheter**. These vibrations may be particularly administered to disperse microbe colonies, thereby preventing or inhibiting formation of biofilm that may lead to infections. Vibrations may be amplified significantly due to resonance conditions in the **catheter** balloon, which may be powerful enough to be used to disperse microbe colonies that have grouped around the **catheter** or are attempting to do so.

Classifications:

International (IPC 8-9): A61B17/20 A61B19/00 A61B8/00 A61L2/00 A61L2/02 A61L2/025 A61L2/08 A61L2/24 A61L29/00 A61L29/08 A61L29/14 A61M25/00 B08B7/02 B08B9/00 (Advanced/Invention); A61B19/00 (Advanced/Non-invention); A61B17/20 A61M25/00 (Core/Invention); A61B (Subclass/Invention)

International (IPC 1-7): A61B A61B1/00 A61B17/20 A61B8/00 A61L2/00 A61L29/00 A61M25/00

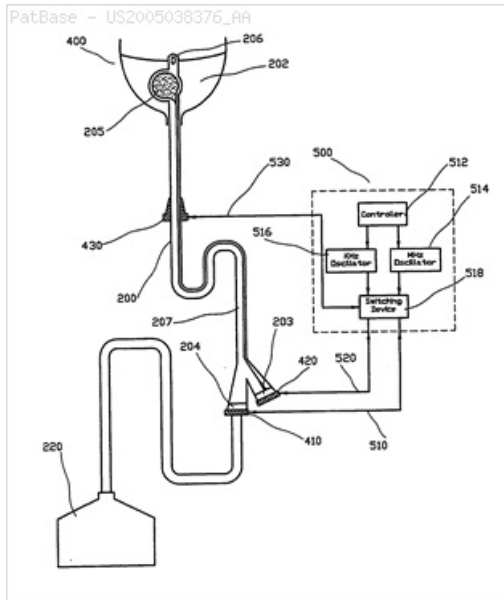
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European: A61L2/02 A61L2/025 A61L2/238 A61L2/24 A61L29/08 A61L29/14 A61M25/00H B08B7/02 B08B9/00 K61M205/10 K61M205/18 K61M205/50 K61M25/00K K61M25/00S4

US: 422/127 422/128 422/20 427/2.1 427/2.100P 600/466 600/467 604/22 604/22P 604/266

JP F-Term: 4C081 4C081/AC08 4C081/BB04 4C081/CF11 4C167 4C167/AA01 4C167/FF01 4C167/GG50 4C167/HH08 4C167/HH10

JP F-Index: A61L29/00/W A61L29/02 A61L29/08 A61L29/12 A61L29/14 A61M25/00/420/B A61M25/00/440/B A61M25/00/520 A61M25/10/550



Family:

Publication number	Publication date	Application number	Application date
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AU2003231892 BB	20080724	AU20030231892	20030529
CN100482171 C	20090429	CN20038018327	20030529
CN101616707 A	20091230	CN200780019732	20070329
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CN1694648 A	20051109	CN20038018327	20030529
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IN02948CN2004 A	20070921	IN2004CN02948	20041227
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JP2005527287 T2	20050915	JP20040506629T	20030529
JP4504183 B2	20100714	JP20040506629T	20030529
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Priority:

US20020383592 20020529	US20020383592P 20020529	US20030445956 20030528
EP20030755260 20030529	WO2003IL00452 20030529	US20040556266P 20040324
US20040986530 20041110	IL20040165422 20041128	US20060786701P 20060329
EP20070736150 20070329	US20070730005 20070329	WO2007IL00410 20070329

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

Title: TRIAXIAL ANTENNA FOR MICROWAVE TISSUE ABLATION

Abstract: An improved antenna for microwave ablation uses a triaxial design which reduces reflected energy allowing higher power ablation and/or a smaller diameter feeder line to the antenna.

Classifications:

International (IPC 8-9): A61B18/04 A61B18/14 A61B18/18 A61F2/00

A61N1/00 A61N1/06 A61N5/00 A61N5/02 G01B21/00 G05B19/41

G06F15/00 (Advanced/Invention);

A61B18/00 (Advanced/Non-invention);

A61B18/04 A61B18/18 A61F2/00 A61N1/00 A61N5/00

A61N5/02 (Core/Invention);

A61B18/00 (Core/Non-invention)

International (IPC 1-7): A61B18/18

CPC: A61B2018/00017 A61N1/06 A61B18/1477 A61B2018/00011

A61B17/3211 A61N5/045 A61B18/18 A61B2017/00084

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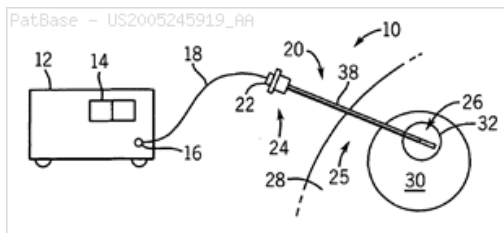
European: A61B18/14N A61B18/18 A61B18/18M A61N5/04B K61B17/00C1T K61B17/22H7C K61B18/00A2 K61B18/00A2A

K61B18/00A2C K61B18/18 K61B18/18M4 K61B18/18M6 K61B18/18M8 K61B19/52H14 K61N1/06

US: 606/33 606/33P 606/41 606/41S 607/101 607/101S 607/154 607/156 607/156S 700/250 700/252 700/262 702/150

JP F-Term: 4C060 4C060/JJ29 4C160 4C160/JK02 4C160/JK03 4C160/KL05 4C160/MM32 4C160/MM43

JP F-Index: A61B17/36/340 A61B18/18/100



Family:

Publication number	Publication date	Application number	Application date
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Priority:

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STEIN AND GRATZ SC; CASIMIR JONES SC; MEDLEN AND CARROLL LLP; BOYLE FREDRICKSON SC

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