

1) Family number: 56394210 (US2014125482A)

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Title: SYSTEMS AND METHODS FOR TAGGING AND TRACKING SURGICAL DEVICES AND SURGICAL ACCESSORIES USING RADIO FREQUENCY IDENTIFICATION TAGS

Abstract: Various systems and methods are provided for tagging and tracking surgical devices using radio frequency identification (RFID) tags. In general, the systems and methods allow for tracking surgical devices throughout distribution and sterilization thereof. In an exemplary embodiment, the system includes a tray configured to seat a plurality of surgical devices and having a parent RFID tag attached thereto that contains information and/or facilitates access to information about the tray and each of the surgical devices seated therein. Each of the surgical devices seated in the instrument tray can have attached thereto a child RFID tag containing information and/or facilitating access to information about the surgical device.

Classifications:

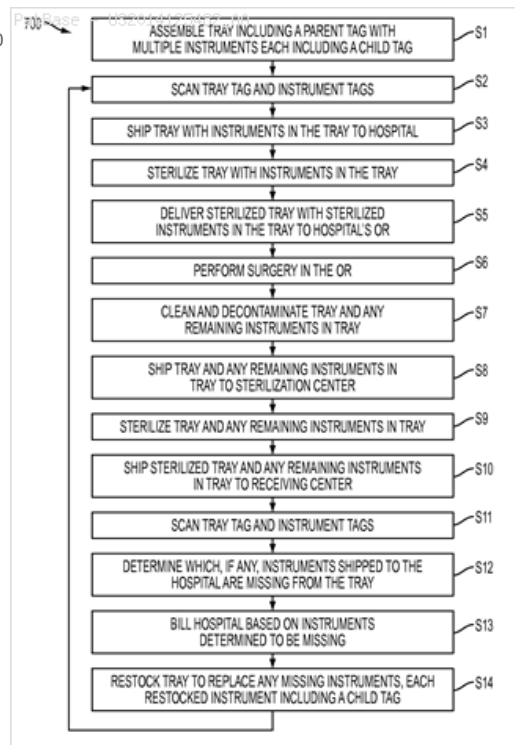
International (IPC 8-9): A61B17/70 A61B19/00 A61B19/02 A61L2/00 A61L2/26 G08B1/08 G08B13/24 (Advanced/Invention)

CPC: A61L2202/21 A61L2202/24 A61B17/70 A61L2/00 A61L2/26 G08B13/24 G08B13/2462 A61B17/7001 A61B50/20 A61B50/22

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A61B2050/005 A61B2050/3008 A61B2050/3011 A61B90/90

US: 1/1 235/385 340/539.12 340/539.13 340/572.1 705/22 705/29

**Family:**

Publication number	Publication date	Application number	Application date
EP2914195 A1	20150909	EP20130792191	20131105
US2014125482 AA	20140508	US20120668645	20121105
US2015091725 AA	20150402	US20140565613	20141210
US2016022368 AA	20160128	US20150878672	20151008
US8937544 BB	20150120	US20120668645	20121105
US9179977 BB	20151110	US20140565613	20141210
US9498294 BB	20161122	US20150878672	20151008
WO14071337 A1	20140508	WO2013US68382	20131105

Priority:

US20120668645 20121105 WO2013US68382 20131105 US20140565613 20141210
US20150878672 20151008

Probable Assignee: DEPUY SYNTHES PRODUCTS INC

Assignee(s): (std) DEPUY SPINE INC ; DEPUY SYNTHES PRODUCTS INC ; DEPUY SYNTHES PRODUCTS LLC

Assignee(s): HAND INNOVATIONS LLC ; DEPUY SPINE LLC ; DEPUY ORTHOPAEDICS

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Agent(s): ORR ROBERT; NUTTER MCCLENNEN AND FISH LLP; JOHNSON PHILIP S ET AL

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

2) Family number: 61701774 (US2017156732A)

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Title: COORDINATED DELIVERY OF COPD TREATMENT

Abstract: Methods, systems and devices are disclosed for the efficient and coordinated delivery of COPD treatment to the

lung(s) of a patient. A lung volume reduction system is disclosed comprising an implantable device adapted to be delivered to an airway of a patient in a constrained configuration and to change to a tissue-compressing configuration when deployed at a target zone to provide treatment to the lung airway. The invention further discloses a method of quickly and efficiently deploying the device using a single coordinated motion or signal which may be particularly useful when multiple devices are deployed at multiple target zones.

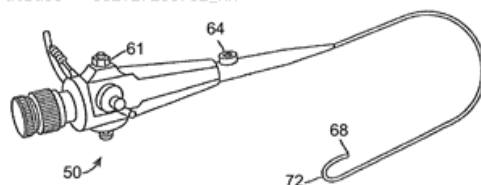
Classifications:

International (IPC 8-9): A61B A61B17/00 A61B17/12 A61B17/128 A61B17/24 A61B17/29 A61B90/96 A61B90/98 A61F2/02 A61F2/04 (Advanced/Invention)

International (IPC 1-7): A61B17/24

CPC: A61B17/1285 A61B17/12104 A61B17/12036 A61B17/12145 A61B90/96 A61B90/98 A61B2017/00809 A61B2017/1205 A61B2017/2923 A61B2017/00367

PatBase - US2017156732_AA



Family:

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CA2957277 AA	20170202	CA20152957277	20150817
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KR20170042288 A	20170418	KR20177003053	20150817
MX2017002005 A1	20170512	MX20170002005	20150817
US2017156732 AA	20170608	US20170432853	20170214
WO16025949 A1	20160218	WO2015US45514	20150817

Priority:

US20140038058P 20140815 WO2015US45514 20150817 US20170432853 20170214

Probable Assignee: PNEUMRX INC

Assignee(s): (std): PNEUMRX INC

Assignee(s): RODRIGUEZ VERNA ; STEVEN CHRISTOPH ; ETTER JEFFREY ; LEHRBERG DAVID ; MATHIS MARK L ; MITZ KEVIN

Inventor(s): (std): CHRISTOPH STEVEN ; DAVID LEHRBERG ; ETTER JEFFREY ; JEFFREY ETTER ; KEVIN MITZ ; LEHRBERG DAVID ; MARK L MATHIS ; MATHIS MARK L ; MITZ KEVIN ; RODRIGUES VERNA ; RODRIGUEZ VERNA ; STEVEN CHRISTOPH ; VERNA RODRIGUEZ

Inventor(s): MARK MATHIS L

Agent(s): FB RICE ; FB RICE PTY LTD ; BERESKIN AND PARR LLP SENCRL SRL ; ESTUDIO CAREY LTDA ; ANDREA TOBOS MATEUS ; BTG PLC INTELLECTUAL PROPERTY GROUP ; CHANG TSI AND PARTNERS INTELLECTUAL PROPERTY HK LTD ; CHANG SHIN TSEN ET AL

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

3) Family number: 36079026 (US2007221230A)

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Title: MINIMALLY INVASIVE LUNG VOLUME REDUCTION DEVICE AND METHOD

Abstract: A lung volume reduction system is disclosed comprising an implantable device adapted to be delivered to a lung airway of a patient in a delivery configuration and to change to a deployed configuration to bend the lung airway. The invention also discloses a method of bending a lung airway of a patient comprising inserting a device into the airway in a delivery configuration and bending the device into a deployed configuration, thereby bending the airway.

Classifications:

International (IPC 8-9): A61B A61B1/00 A61B1/018 A61B1/04 A61B1/267 A61B17/00 A61B17/08 A61B17/12 A61B17/122 A61B17/128 A61B17/24 A61B17/28 A61B19/00 A61B34/10 A61B5/00 A61B5/05 A61B5/06 A61B5/08 A61B5/087 A61B5/091 A61B5/145 A61B6/00 A61B6/03 A61B6/12 A61B90/00 A61F A61F2/02 A61F2/04 A61F2/20 A61F2/36 A61F2/82 A61F2/95 A61M A61M15/00 A61M16/00 A61M16/04 A61M16/08 A61M16/20 A61M25/00 A61M25/06 A61M29/00 A61M37/00 A62B18/00 A62B7/00 A62B9/00 (Advanced/Invention);

A61B17/00 A61B17/128 A61B19/00 A61B34/10 A61F2/04 (Advanced/Non-invention);

A61F2/02 A61F2/04 A61F2/20 A61M16/00 A62B7/00 (Core/Invention);

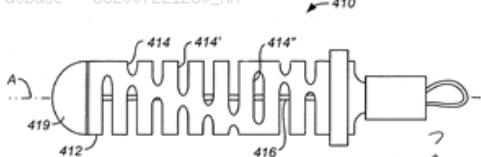
A61B A61F A61M (Subclass/Invention)

CPC: A61B2017/1205 A61B1/04 A61B5/06 A61B6/032 A61B6/12 A61B6/485 A61B17/00234 A61M37/0069 A61B17/1285 A61M16/208 A61B17/12022 A61B17/12131 A61B17/1214 A61B17/12145 A61B17/1215 A61B17/12172 A61B2017/00477 A61B2017/00809 A61B2017/00867 A61B2017/12054 A61F2002/043 A61F2002/046 A61M16/04 A61M16/0406 A61M2205/0266 A61M2205/32 A61B17/122 A61B5/4848 A61B5/091 A61B5/087 A61B5/14542 A61B17/24 A61B19/00 A61B19/24 A61B90/02 A61B17/12104 A61B17/12031 A61B90/00 A61B2090/061 A61B2090/3966 A61M16/0833 A61B2034/108 A61B1/2676 A61F2/04

European: A61B17/12P A61B17/12P5A A61B17/12P7 A61B17/12P7C1 A61B17/12P7W1 A61M16/04 K61B17/00K K61B17/00R10 K61B17/128E K61B17/12P2 K61F2/04C K61M16/04A1B K61M205/02S

US: 1/1 128/200.24 128/200.240S 128/207.15 128/207.150P 128/898 128/899 600/104 600/37 600/424 604/500 604/506 604/506S 604/93.01 606/151 606/157 606/191 606/191P 606/213 623/23.64 623/23.65 623/23.650P 623/9 623/9S

PatBase - US2007221230_AA



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Priority:

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Probable Assignee: PNEUMRX INC

Assignee(s): (std): ARONSON NATHAN ; BOUTILLETTE MICHAEL ; LEHRBERG DAVID ; MATHIS MARK ; PNEUMRX INC ; WU PATRICK ; THOMPSON DAVID ; VASQUEZ JAIME ; MATHIS MARK L ; PNEUMRX LNC

Assignee(s): PNEUMRX INC SANTA CLARA

Inventor(s): (std): LEHRBERG DAVID D ; WU PATRICK P ; ARONSON NATHAN N ; THOMPSON DAVID D ; VASQUEZ JAIME J ; MATHIS MARK L ML ; BOUTILLETTE MICHAEL M ; MICHAEL BOUTILLETTE ; JAIME VASQUEZ ; DAVID LEHRBERG ; NATHAN ARONSON ; PATRICK WU ; DAVID THOMPSON ; MATHIS MARK L ; BOUTILLETTE MICHAEL ; VASQUEZ JAIME ; LEHRBERG DAVID ; ARONSON NATHAN ; MATHIS MARK ; THOMPSON DAVID ; WU PATRICK ; MARK L MATHIS ; MARK MATHIS

Inventor(s): WU PATRICK MOUNTAIN VIEW ; LEHRBERG DAVID MOUNTAIN VIEW ; MATHIS MARK FREMONT ; VASQUEZ JAIME REDWOOD CITY ; ARONSON NATHAN CHICO ; BOUTILLETTE MICHAEL SAN FRANCISCO ; MATHIS MARK L FREMONT ; LEHRBERG DAVID REDWOOD CITY ; WU PATRICK PLEASANTON ; THOMPSON DAVID SAN JOSE

Agent(s): SMART AND BIGGAR; FETHERSTONHAUGH AND CO; STOLMAR AND PARTNER PATENTANWAELTE PARTG MBB; PRICE NIGEL JOHN KING; BTG PLC INTELLECTUAL PROPERTY GROUP; CLARK JANE ANNE; FINNEGAN EUROPE LLP; PONS ANGEL; SHANGHAI PATENT AND TRADEMARK OFFICE; SHANGHAI INTELLECTUAL PROPERTY OFFICE; WILKINSON AND GRIST; ONO SHINJIRO; SAKUMA SHIGERU; SHAMOTO ICHIO; KOBAYASHI YASUSHI; TOMITA HIROYUKI; CHIBA AKIO; YAMAMOTO OSAMU; TAKEUCHI SHIGEO; FULYA SUEMERALP; WILSON SONSINI GOODRICH AND ROSATI; TOWNSEND AND TOWNSEND AND CREW LLP; KILPATRICK TOWNSEND AND STOCKTON LLP; BARRISH MARK D ET AL

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

4) Family number: 30377656 (US2001037808A)

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Title: METHODS AND DEVICES FOR USE IN PERFORMING PULMONARY PROCEDURES

Abstract: An implantable flow control element is provided which prevents air from entering an isolated portion of a patient's lung. The element may permit air to escape from the isolated portion so that the element acts like a valve. Systems for implanting pulmonary devices are also provided.

Classifications:

International (IPC 8-9): A61B1/018 A61B1/12 A61B1/267
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A62B9/06 F16K15/14 (Advanced/Invention);
A61B17/12 A61B17/22 A61B19/00 A61F2/04
A61F2/06 (Advanced/Non-invention);
A61B5/103 A61F11/00 (Core/Invention)
International (IPC 1-7): A61B1/00 A61B17/00 A61B17/12
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128/200.240P 128/200.26 128/200.260P 128/201.26 128/201.28

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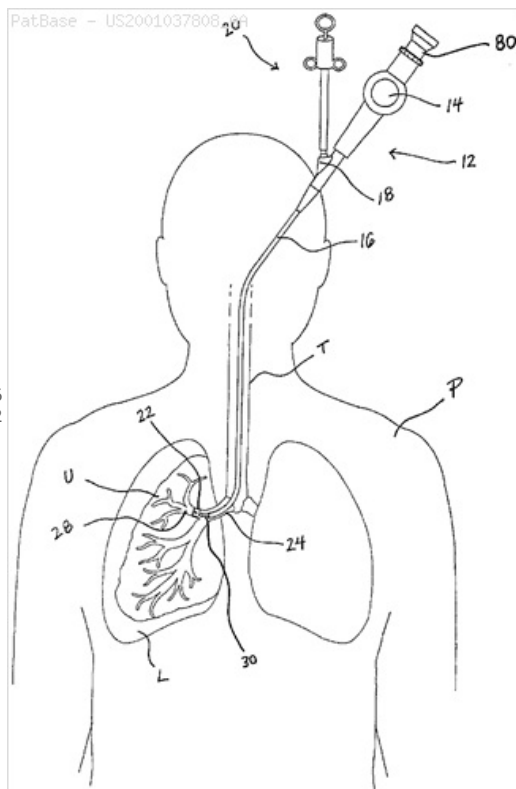
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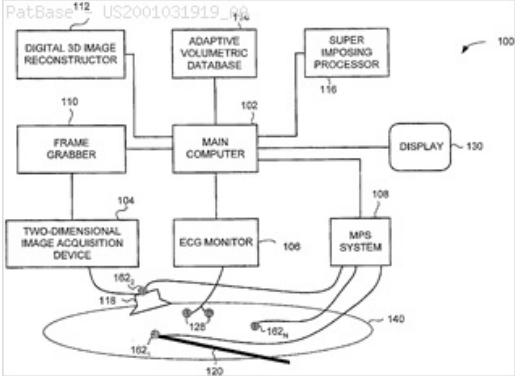
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5) Family number: 30046200 (US2001031919A) © PatBase

Title: MEDICAL IMAGING AND NAVIGATION SYSTEM

Abstract: Medical imaging and navigation system including a processor, a display unit, a database, a medical positioning system (MPS), a two-dimensional imaging system, an inspected organ monitor interface, and a superimposing processor, the MPS including a transducer MPS sensor and a surgical tool MPS sensor, the two-dimensional imaging system including an imaging transducer, the processor being connected to the display unit, to the database, to the MPS, to the two-dimensional imaging system, to the inspected organ monitor interface, and to the superimposing processor, the inspected organ monitor interface being connected to an organ monitor, the surgical tool MPS sensor being firmly attached to a surgical tool, the transducer MPS sensor being firmly attached to the imaging transducer, the organ monitor monitoring an organ timing signal associated with an inspected organ.

Classifications:
International (IPC 8-9): A61B A61B1/00 A61B1/313 A61B17/00 A61B19/00 A61B34/00 A61B34/10 A61B34/20 A61B5/00 A61B5/01 A61B5/0245 A61B5/0456 A61B5/05 A61B5/055 A61B5/06 A61B5/08 A61B5/103 A61B5/107 A61B5/11 A61B5/113 A61B6/00 A61B6/02 A61B6/03 A61B6/04 A61B6/12 A61B8/00 A61B8/02 A61B8/08 A61B8/12 A61B90/00 A61B90/10 A61B90/30 A61F2/04 A61F2/82 A61F2/84 A61F2/95 A61G13/00 A61M25/00 A61M25/09 A61M25/095 G01B17/00 G01B17/02 G01B17/06 G01B7/00 G01B7/30 G01T1/00 G01T1/161 G01T1/164 G06F19/00 G06T7/00 (Advanced/Invention); A61B1/00 A61B17/00 A61B19/00 A61B34/00 A61B34/10 A61B34/20 A61B5/00 A61B5/01 A61B5/0456 A61B5/055 A61B5/08 A61B6/00 A61B6/03 A61B6/12 A61B8/00 A61B8/08 A61B90/00 A61B90/10 A61M25/00 A61N5/10 G01B17/00 G01B17/02 G01B17/06 G01B7/00 G01B7/30 (Advanced/Non-invention); A61B1/00 A61B17/00 A61B19/00 A61B5/00 A61B5/024 A61B5/05 A61B5/055 A61B5/06 A61B5/08 A61B5/103 A61B5/107 A61B5/11 A61B6/00 A61B6/02 A61B6/03 A61B6/12 A61B8/08 A61B8/12 A61F2/82 A61M25/00 A61M25/09 A61M25/095 G01B17/00 G01B17/02 G01B17/06 G01B7/00 G01B7/30 G01T1/00 G06T7/00 (Core/Invention); A61B5/00 A61B5/0452 A61B8/08 (Core/Non-invention); A61B (Subclass/Invention)



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Probable Assignee: MEDIGUIDE LTD

Assignee(s): (std): ELBIT SYSTEMS LTD ; MEDIGUIDE LTD ; SCHWARTZ LIAT ; SHMARAK ITZHAK ; STROMMER GERA ; COHEN AMIT ; EICHLER UZI

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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 KM KN KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX 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 SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

6) Family number: 33028425 (US2004073191A)

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Title: METHODS AND DEVICES FOR OBSTRUCTING AND ASPIRATING LUNG TISSUE SEGMENTS

Abstract: The present invention provides improved methods, systems, devices and kits for performing lung volume reduction in patients suffering from chronic obstructive pulmonary disease or other conditions where isolation of a lung segment or reduction of lung volume is desired. The methods are minimally invasive with instruments being introduced through the mouth (endotracheally) and rely on isolating the target lung tissue segment from other regions of the lung. Isolation is achieved by deploying an obstructive device in a lung passageway leading to the target lung tissue segment. Once the obstructive device is anchored in place, the segment can be aspirated through the device. This may be achieved by a number of methods, including coupling an aspiration catheter to an inlet port on the obstruction device and aspirating through the port. Or, providing the port with a valve which allows outflow of gas from the isolated lung tissue segment during expiration of the respiratory cycle but prevents inflow of air during inspiration. In addition, a number of other methods may be used. The obstructive device may remain as an implant, to maintain isolation and optionally allow subsequent aspiration, or the device may be removed at any time.

Classifications:

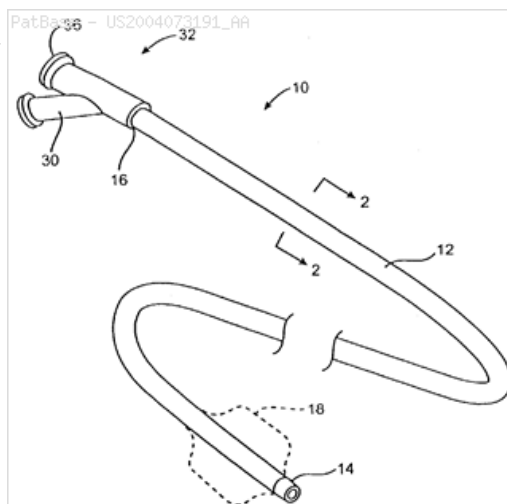
International (IPC 8-9): A61B17/00 A61B17/12 A61B17/24 A61F2/84 A61M3/02 A61M31/00 A61M5/20 (Advanced/Invention); A61B17/22 A61F2/86 (Advanced/Non-invention); A61B17/00 A61B17/12 A61B17/24 A61F2/82 A61M3/00 A61M31/00 (Core/Invention); A61B17/22 A61F2/82 (Core/Non-invention)

International (IPC 1-7): A61B17/00 A61B17/24 A61M29/02 A61M31/00 A61M35/00 A61M5/20

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European: A61B17/12P A61B17/12P5A A61B17/12P7B A61B17/12P7P A61B17/12P7W1 A61B17/12P7Z3 K61B17/00S10 K61B17/00S12 K61B17/12P2 K61B17/22H7B K61B17/22H7C

US: 128/200.24 128/207.16 604/28 604/35 604/39 604/39P 604/48 604/509 604/516 604/516P 606/108



Family:

Publication number	Publication date	Application number	Application date
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Priority:

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US20040628649P 20041116 US20050271211 20051109 US20050280592 20051115
WO2005US41627 20051116

Probable Assignee: PULMONX

Assignee(s): (std): KOTMEL ROBERT ; LEE JEFFREY ; PULMONX ; PULMONX INC ; SOLTESZ PETER P ; WONDKA ANTHONY
Assignee(s): BOSTON SCIENTIFIC CORP ; PULMONX CORP ; OXFORD FINANCE LLC COLLATERAL AGENT AS
Inventor(s): (std): KOTMEL ROBERT ; LEE JEFFREY ; REILLY MICHAEL ; SOLTESZ PETER ; SOLTESZ PETER P ; WONDKA ANTHONY ; WONDKA TONY ; REILLY MICHAEL P ; KOTMEL ROBERT F ; BUCH WALLY S
Inventor(s): WALLY S BUCH ; TONY WONDKA ; ROBERT F KOTMEL ; PETER P SOLTESZ ; MICHAEL P REILLY ; BUCH WALLY
Agent(s): KAZI ILYA ET AL; KAZI ILYA; TOWNSEND AND TOWNSEND AND CREW LLP
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 KM KN KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

7) Family number: 50909032 (US2013345561A)

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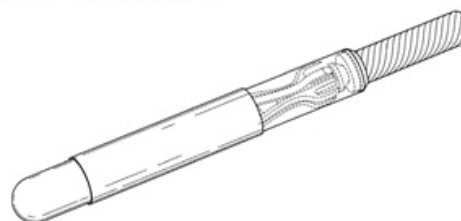
Title: DELIVERY CATHETER FOR AND METHOD OF DELIVERING AN IMPLANT, FOR EXAMPLE, BRONCHOSCOPICALLY IMPLANTING A MARKER IN A LUNG

Abstract: Systems and methods for treating a lung of a patient. One embodiment of a method comprises positioning a leadless marker in the lung of the patient relative to the target, and collecting position data of the marker. This method further comprises determining the location of the marker in an external reference frame outside of the patient based on the collected position data, and providing an objective output in the external reference frame that is responsive to movement of the marker. The objective output is provided at a frequency (i.e., periodicity) that results in a clinically acceptable tracking error. In addition, the objective output can also be provided at least substantially contemporaneously with collecting the position data used to determine the location of the marker.

Classifications:

International (IPC 8-9): A61B17/34 A61B90/00 A61M25/00 A61M25/01 A61M25/09 A61M25/092 A61M31/00 A61M37/00 A61N5/10 (Advanced/Invention); A61B17/00 A61M5/00 (Advanced/Non-invention)
CPC: A61B90/39 A61B2017/00867 A61B2034/2051 A61B2090/3987 A61B2090/3991 A61N5/1049 A61M25/00 A61M25/0108 A61M25/0105 A61M25/09 A61M2025/09166 A61B1/2676 A61M31/005
US: 600/435

PatBase - US2013345561_AA



Family:

Publication number	Publication date	Application number	Application date
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CN103347454 B	20161012	CN201180056890	20111003
EP2621578 A2	20130807	EP20110830075	20111003
EP2621578 A4	20140514	EP20110830075	20111003
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Priority:

US20100389184P 20101001 US20110877257 20111003 WO2011US54656 20111003
US20130877257 20130916 US20160385121 20161220

Probable Assignee: VARIAN MEDICAL SYSTEMS INC

Assignee(s): (std): QUIGLEY FERGUS ; VARIAN MED SYS INC ; VARIAN MEDICAL SYSTEM INC ; CALYPSO MED
TECHNOLOGIES INC

Assignee(s): CALYPSO MEDICAL TECHNOLOGIES INC ; VARIAN MEDICAL SYSTEMS INC

Inventor(s): (std): QUIGLEY FERGUS

Agent(s): FOSTER MARK CHARLES; UESUGI HIROSHI; OHTSUKA FUMIAKI; SUDA HIROYUKI; KUMAKURA
YOSHIO; NISHIJIMA TAKAKI; PERKINS COIE LLP; BETCHER SUSAN D ET AL

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