Search history

Search 1: FT=occlu* and hollow and (channel or passage or bore) (Results 4071)

Search 2: FT=occlu* and hollow and (channel or passage or bore) and (ovar* or fallopian) (Results 56)

Search 3: FT=occlu* and hollow and (channel or passage or bore) and (helix or spiral) (Results 282)

- session log created:13 June 2017 14:27:42
- Update information:

PatBase Coverage at Update 2017 Week 23 (Year 2017 Week 23)

PatBase Coverage includes 100+ million documents from over 100 patent–issuing authorities and includes patent applications, granted patents, utility models and designs â€“ detailed in the below coverage listings.

Major countries

Publishing body	Document type	Bibliographic publication date		Full–Text publication date	
		Earliest	Latest	Earliest	Latest
CN China	Patent Applications	19850910	20170609	19850910	20170609
	Patents	19930106	20170609	19930106	20170609
	Utility Model Applications	19850409	19921230	19850409	19921230
	Utility Models	19930106	20170609	19930106	20170609
	Designs	19850910	20170609	19850910	20150819
DE Germany	Patent Applications	19211221	20170608	19650317	20170608
	Patents	18770101	20170608	19200113	20170608
	Utility Models	19280626	20170608	19610831	20170608
	EP/WO Patents	19871217	20140410		
EP European Patent Office	Patent Applications	19781220	20170607	19781220	20170607
	Patents	19800109	20170607	19800109	20170607
FR France	Patent Applications	19690307	20170609	19810102	20170512
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	Utility Model Applications	19720107	20170609	19800104	20170512
	Utility Models	19730112	20170609	19690802	20170602
GB United Kingdom	Unpublished Patent Applications	19830209	20170531		
	Patent Applications	19790104	20170607	19790104	20170531
	Patents	17820704	20170607	19020911	19811216
JP Japan	Patent Applications	19710116	20170615	19930108	20170601

	Patents	19281026	20170524	19960529	20170524
	Utility Model Applications	19710723	20060209	19990817	20031107
	Utility Models	19640805	19960329		
	Registered Utility Models	19940726	20170525	19940726	20101216
	Designs	20141110	20170605		
KR Republic of Korea	Patent Applications	19781209	20170609	19940103	20170609
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	Utility Model Applications	19781127	20170609	19940730	20170609
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US United States of America	Patent Applications	20010315	20170608	20010315	20170608
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	Designs	18650912	20170606	19770719	20170606
WO World Intellectual Property Organization (WIPO)	Patent Applications	19781019	20170608	19781019	20170608
	Designs	20151127	20170602	20151127	20170602

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- Login to Patbase:13 June 2017 14:27:42
- **search:** SS1 FT=occlu* and hollow and (channel or passage or bore) (Results 4071)
- List: SS1 1–50 (FT=occlu* and hollow and (channel or passage or bore)) (Results 4071)

0) US2002111647A – ADJUSTABLE LEFT ATRIAL APPENDAGE OCCLUSION DEVI...

1) Family number: 31133104 (US2002111647A) © PatBase

Title: ADJUSTABLE LEFT ATRIAL APPENDAGE OCCLUSION DEVICE

Priority:

EP19990960236	19991108	EP20020801803	20021021	US20030364910	20030211
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Family:

Publication number	Publication date	Application number	Application date
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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 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

International class (IPC 8–9): A61B17/00 A61B17/08 A61B17/11 A61B17/12 A61B17/122 A61B29/00 A61D1/00 A61F2/01 A61F2/04 A61F2/06 A61F2/958 A61K31/12 A61L27/00 A61L27/48 A61L27/56 A61L31/12 A61L31/14 A61M25/10 A61M29/00 B32B27/12 B32B3/00 (Advanced/Invention); A61B17/00 A61B17/08 A61B17/122 (Advanced/Non–invention); A61B17/00 A61B17/03 A61B17/12 A61F2/04 (Core/Invention); A61B (Subclass/Invention)

International class (IPC 1–7): A61B17/00 A61B17/08 A61B17/11 A61B17/12 A61D1/10 A61F2/01 A61F2/06 A61K31/12 A61L27/00 A61L27/48 A61L27/56 A61L31/14 A61M29/00 B32B27/12 B32B3/00

CPC: A61B17/12 A61L31/129 B32B27/12 A61B2017/00606 A61B17/122 A61B2017/00601 A61B2017/00632 A61B2017/00867 A61B2017/081 A61F2002/018 A61F2230/0006 A61F2230/0071 A61F2230/008 A61B17/12031 A61F2002/011 A61B17/12022 A61B2017/00575 A61B2017/00623 A61B2017/1205 A61B2017/12095 A61B2017/00628 A61B17/0057 A61B17/12122 A61B17/12136 A61B17/12172 A61B17/12186 A61B17/12195 A61B2017/00243 A61B2017/00557 A61B2017/00579 A61B2017/00592 A61B2017/00597 A61B2017/00615 A61B2017/00619 A61F2/01 A61F2230/0069 A61F2230/0076 A61M25/10 A61M2025/1054 A61M2210/125

European class: A61B17/00P A61B17/12 A61B17/12P A61B17/12P5H A61B17/12P7B A61B17/12P7W1 A61B17/12P7Z1 A61B17/12P7Z5 A61F2/01 A61L31/12D10 A61M25/10 B32B27/12 K61B17/00E1C K61B17/00N8 K61B17/00P5 K61B17/00P5B K61B17/00P5E K61B17/00P5F K61B17/00P5G K61B17/00P5H K61B17/00P5K K61B17/00P5L K61B17/00P5R K61B17/00P5W K61B17/00S12 K61B17/08A K61B17/122 K61B17/12P2 K61B17/12P2D K61M210/12B K61M25/10Z5

US class: 1/1 128/887 128/898 604/107 606/108 606/119 606/119P 606/142 606/151 606/151S 606/194 606/194P 606/195 606/198 606/200 606/200P 606/200S 606/213 606/213P 606/216 623/1.11 623/1.12 623/1.120P 623/11.1

Classification Explorer

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Abstract:
Source: US2002111647A Disclosed is an adjustable occlusion device for use in a body lumen such as the left atrial appendage. The occlusion device is removably carried by a deployment catheter. The device may be enlarged or reduced to facilitate optimal placement or removal. Methods are also disclosed.

0) US2001001114A – CARDIOPLEGIA BALLOON CANNULA

2) Family number: 28119150 (US2001001114A) © PatBase

Title: CARDIOPLEGIA BALLOON CANNULA

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Designated states: AT AU BE BR CA CH CY DE DK ES FI FR GB GR IE IL IT JP KR LI LU MC NL NO PT SE SG

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Abstract:
Source: US2001001114A A cardioplegia occluder and methods of using the device during cardiac surgery are disclosed. The system typically includes a substantially rigid cannula with an occluder mounted on the distal region of the cannula that expands upon activation to occlude the aorta downstream of an infusion port which delivers cardioplegia solution to arrest the heart. Systems including cutting blades, blade guards, flanges, radiopaque markers and occluder aligners are also disclosed. In use, the distal end of the cannula is inserted through an incision into the aorta, the occluder is expanded and cardioplegia solution is infused upstream of the aorta to arrest the heart. The infusion port can alternately be used to aspirate cardioplegia or embolic debris or other unwanted material from the aorta.

0) US2012283758A – METHOD AND APPARATUS FOR TREATING VARICOSE VEIN...

3) Family number: 51553198 (US2012283758A) © PatBase

Title: METHOD AND APPARATUS FOR TREATING VARICOSE VEINS

Priority: US20110431609P 20110111 US20120348416 20120111 US20130857424 20130405 US20120620787P 20120405 US20120643092P 20120504 US20130820589P 20130507 US20130888165 20130506 US20140272304 20140507 US20150639814 20150305 US20140948241P 20140305 US20140084989P 20141126 US20150203655P 20150811 US20150267883P 20151215 US20150267825P 20151215 WO2012US20973 20120111 WO2014US37199 20140507 US20150966768 20151211 US20160013552 20160202 US20160044323 20160216 US20160272749 20160922 US20160226577 20160802 US20160298724P 20160223 US20160350872 20161114 US20160380245 20161215 US20160361547P 20160713 US20160306932P 20160311 US20160303071P 20160303 US20160299662P 20160225 US20160299444P 20160224 US20160276042P 20160107 WO2015US19001 20150305

Family:

Publication number	Publication date	Application number	Application date
CN103596508 A	20140219	CN201280012807	20120111
CN103596508 B	20170405	CN201280012807	20120111
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US2012283758 AA	20121108	US20120348416	20120111
US2013226201 AA	20130829	US20130857424	20130405
US2013245534 AA	20130919	US20130888165	20130506
US2014243857 AA	20140828	US20140272304	20140507
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WO17027261 A1	20170216	WO2016US45177	20160802

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Inventor(s):(std)**:**

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Agent(s): ENGELHARDT AND ENGELHARDT; CARTER STEPHEN JOHN; YAMAMOTO OSAMU; TAKEUCHI SHIGEO; ONO SHINJIRO; KOBAYASHI YASUSHI; PANDISCIO MARK J; LEONARDO MARK 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

International class (IPC 8–9): A61B17/00 A61B17/08 A61B17/12 A61B17/122 A61B17/128 A61B18/14 A61F2/01 A61F2/24 A61M16/00 (Advanced/Invention); A61B17/00 A61B17/064 (Advanced/Non–invention)

CPC: A61B17/0643 A61B2017/12095 A61B17/064 A61B17/068 A61B2017/00557 A61B2017/0647 A61B2017/0649 A61B2017/12004 A61B17/12099 A61B17/12109 A61B2017/00871 A61B2017/1205 A61F2/2436 A61F2002/011 A61F2002/016 A61F2220/005 A61F2230/0002 A61F2250/0068 A61B17/12031 A61B2017/00893 A61B2017/0464 A61B17/1227 A61B2018/00404 A61B2018/00595 A61B17/12131 A61B17/12027 A61B18/14 A61B17/12036 A61B17/00008 A61B17/12013 A61B17/1214 A61B2017/00986 A61B17/128 A61B17/12 A61B17/12009 A61B17/12145 A61B2017/12054 A61F2/01 A61B17/12022 A61B17/12136 A61B2017/00867 A61F2/2475 A61B17/00 A61B17/12122 A61B17/0057 A61B17/1222 A61B2017/00632 A61B2017/00623 A61B17/122 A61B2017/00004 A61B2017/00243 A61B2017/00367 A61B2017/00407 A61B2017/00526 A61B2017/0053 A61B2017/00876 A61B2017/2916 A61B2017/2923 A61B2090/0803 A61B2090/0807 A61B2090/3925 A61F5/0083 A61F6/20 A61B17/0482 A61B17/0686 A61B17/072 A61B17/07292 A61B17/1285 A61B2017/061 A61B2017/0688 A61B2090/08021

European class: A61B17/00B A61B17/12 A61B17/12L A61B17/12P A61B17/12P7C A61B17/12P7C1 K61B17/00S12 K61B17/00X1 K61B17/064C K61B17/12P2

US class: 604/9 606/142 606/143 606/157 606/158 606/49

Classification Explorer

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Forward Citations: WO16090000, WO15134768, WO15066150, WO14182849, US9622706, US9612105, US9596993, US9566443, US9498206, US9486281, US9486143, US9478940, US9408608, US9383263, US9367965, US9360630, US9324141, US9307926, US9301687, US9292918, US9286673, US9286340, US2014372372, JP2015524307, ITRM20130483, EP2994059,

Abstract:
Source: US2012283758A Apparatus for occluding a blood vessel, the apparatus comprising: an occluder, the occluder being configured so that at least a portion of the occluder may assume (i) a diametrically–reduced configuration for disposition within the lumen of a tube, and (ii) a diametrically–expanded configuration for disposition adjacent to the blood vessel, such that when said at least a portion of the occluder is in its diametrically–expanded configuration adjacent to the blood vessel, the occluder will cause occlusion of the blood vessel.

4) Family number: 43179026 (US2009105722A) © PatBase

Title: DEVICES AND METHODS FOR EMBOLUS REMOVAL DURING ACUTE ISCHEMIC STROKE

Priority:

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AU20140201810 20140327 AU20150218421 20150825 EP20080866763 20081219
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Probable Assignee: COVIDIEN LP

Assignee(s):(std)**:** CRAGG ANDREW ; CRAGG ANDREW H ; MINDFRAME INC ; FERRERA DAVID A ; FULKERSON JOHN ; RIZK ISA ; INTERSECT PARTNERS LLC ; FERRERA DAVID ; FERRERE DAVID ; BENJAMIN JOSHUA ; COVIDIEN LP ; LUCE FORWARD HAMILTON 7 SCRIPP ; SOSNOWSKI STEPHEN A ; SOSNOWSKI STEPHEN

Assignee(s): MINDFRAME LLC ; COVIDIEN LP MANSFIELD ; COVIDIEN LP NDGESDSTAATES DELAWARE MANSFIELD ; LUCE FORWARD HAMILTON 7 SCRIPPS LLP

Inventor(s):(std)**:** BENJAMIN JOSHUA ; CRAGG ANDREW ; CRAGG ANDREW H ; FERRERE DAVID ; SOSNOWSKI STEPHEN A ; SOSNOWSKI STEPHEN ; RIZK ISA ; FERRERA DAVID ; FULKERSON JOHN ; FERRERA DAVID A

Inventor(s): JOHN FULKERSON ; DAVID A FERRERA ; ANDREW CRAGG ; GRAGG ANDREW

Agent(s): PETER MAXWELL AND ASSOCIATES; SPRUSON AND FERGUSON; SMART AND BIGGAR; PATENTANWALTSKANZLEI MEYER; HERNANDEZ YORCK DIPL ING; KEHOE LAURA ELLEN; CREASE DEVANAND JOHN; ELSY DAVID; DE ELZABURU ALBERTO; LAZCANO JESUS; GREENBERG TRAURIG LLP; GREENBERG TRAURIG LLP (LA); LUCE FORWARD HAMILTON AND SCRIPPS LLP; KNOBBE MARTENS OLSON AND BEAR LLP; MARK J; GLUCK PETER J; BENTLEY MARK I; BENTLEY MARK I ET AL; CHRISTENSEN MICHAEL R

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 TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): A61B A61B17/00 A61B17/12 A61B17/22 A61B17/221 A61B17/24 A61B17/3207 A61D1/02 A61F2/01 A61F2/06 A61F2/82 A61F2/84 A61F2/89 A61F2/91 A61F2/95 A61F2/958 A61F2/966 A61L27/54 A61L29/00 A61M25/00 A61M25/01 A61M25/06 A61M25/08 A61M25/088 A61M25/09 A61M25/098 A61M25/10 A61M25/18 A61M29/00 A61M29/02 B23P17/04 (Advanced/Invention); A61B17/00 A61B17/22 A61B17/3207 A61B17/3209 A61F2/01 A61F2/82 A61F2/90 A61F2/91 A61F2/915 A61M25/00 A61M25/10 (Advanced/Non–invention); A61B17/22 A61M25/00 A61M25/01 A61M25/08 A61M25/088 A61M25/09 A61M25/16 A61M29/02 B23P17/00 (Core/Invention)

CPC: A61M25/0009 A61M25/0021 A61M2210/0693 A61M25/1027 A61M2025/0046 A61M2025/1088 A61M25/10 A61M2025/0183 A61M25/104 A61M2025/0681 A61M2025/09133 A61M2025/1052 A61F2/95 A61F2002/91558 A61F2230/005 A61F2230/0054 A61B17/12022 A61B2017/1205 A61F2/90 A61F2002/823 A61M39/0613 A61B2017/00477 A61M39/10 A61M2039/0279 Y10T29/49826 A61F2002/016 A61F2230/0069 A61F2230/0076 A61F2230/0097 A61F2/01 A61F2230/0091 A61F2230/0093 A61F2002/018 A61F2230/0006 A61F2230/0067 A61M25/09 A61M25/09025 A61B17/22031 A61B17/3207 A61B2017/00845 A61B2017/22038 A61B2017/22082 A61F2/013 A61F2/82 A61F2250/0059 A61M29/02 A61M2025/1095 A61M2025/1097 A61B17/320783 A61B2090/3966 A61B17/12118 A61B17/1214 A61B17/320725 A61B2017/00309 A61B2017/00867 A61B2017/22001 A61B2017/22034 A61B2017/22039 A61B2017/22079 A61B2017/22094 A61B2017/2212 A61B2017/2215 A61B2017/32096 A61F2/91 A61F2/915 A61M25/0074 A61M2025/0042 A61B17/221

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Classification Explorer

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Abstract:
Source: US2009105722A Devices, methods, and systems facilitate and enable treatment of ischemic stroke. More specifically, a tethered basket−like system operates in conjunction with a microcatheter system, to provide arterial support and capture emboli.

5) Family number: 31492238 (US2004147871A) © PatBase

Title: IMPLANTABLE FLUID MANAGEMENT SYSTEM FOR THE REMOVAL OF EXCESS FLUID

Priority:

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Publication number	Publication date	Application number	Application date
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Assignee(s): BARONOVA INC GOLETA ; BARONOVA INC2870 HOLLY ROADSANTA BARBARACA93105US ; BOOTSTRAP EUROPE SCSP ; POLYMORFIX INC C O MEDVENTURE ASSOCIATES ; NOVASHUNT INC

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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 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 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

International class (IPC 8–9): A61B1/00 A61B17/00 A61B17/04 A61B17/08 A61B17/12 A61B18/18 A61B19/00 A61B5/00 A61B5/07 A61B5/145 A61B6/00 A61F2/00 A61F2/02 A61F2/04 A61F2/12 A61F2/48 A61F2/82 A61F5/00 A61K9/00 A61K9/14 A61K9/22 A61M1/00 A61M27/00 A61M29/00 A61M29/02 A61M31/00 A61M37/00 A61M39/24 A61M5/00 A61M5/142 A61M5/178 A61N1/00 A61N1/36 A61N1/375 C12Q1/68 G08B23/00 (Advanced/Invention); A61B17/00 A61B5/03 A61B5/07 A61B5/145 A61F2/04 A61F2/24 A61M1/00 A61M1/28 A61M25/00 A61M31/00 A61M5/172 A61N1/06 A61N1/40 (Advanced/Non–invention); A61B17/00 A61B17/03 A61B5/00 A61B6/00 A61F2/04 A61F2/12 A61F5/00 A61K9/00 A61K9/14 A61K9/22 A61M1/00 A61M31/00 A61M5/00 A61M5/142 A61N1/00 A61N1/372 C12Q1/68 G08B23/00 (Core/Invention); A61F A61M (Subclass/Invention)

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US class: 1/1 128/898 128/898S 340/573.1 340/573.100S 424/484 424/484P 600/300 600/300P 604/10 604/118 604/131 604/156 604/164.01 604/264 604/48 604/503 604/506 604/517 604/540 604/65 604/73 604/8 604/9 604/93.01 604/9P 606/151 606/151P 606/153 606/153P 606/154 606/154P 606/156 606/192 606/192P 606/213 606/213S 607/40 607/40P 607/40S 623/23.65 623/23.68 623/23.71 623/23.72 977/845 977/845S 977/872 977/872S

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Abstract:
Source: US2004147871A An implantable fluid management device, designed to drain excess fluid from a variety of locations in a living host into a second location within the host, such as the bladder of that host. The device may be used to treat ascites, chronic pericardial effusions, normopressure hydrocephalus, hydrocephalus, pulmonary edema, or any fluid collection within the body of a human, or a non−human mammal.

0) US2010217306A – METHODS FOR VENOUS OCCLUSION FOR THE TREATMENT ...

6) Family number: 46626934 (US2010217306A) © PatBase

Title: METHODS FOR VENOUS OCCLUSION FOR THE TREATMENT OF VENOUS INSUFFICIENCY

Priority:

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Family:

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WO10096717 A1	20100826	WO2010US24820	20100219

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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 TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): A61B A61B17/00 A61B17/03 A61B17/08 A61B17/12 A61B17/132 A61B17/22 A61B19/00 A61B90/00 A61D1/00 A61L24/00 A61M25/00 A61M25/01 (Advanced/Invention); A61B17/22 A61B19/00 (Advanced/Non–invention); A61B17/03 A61B17/12 (Core/Invention); A61B (Subclass/Invention)

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US class: 604/104 604/152 604/155 604/96.01 606/201 606/201P 606/213 606/213P 606/213S 606/214 623/1.24

Classification Explorer

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Forward Citations: WO17010953, WO15144898, WO14018954, WO13160180, WO13160180, WO13149255, WO13090563, WO13081768, US9636116, US9592037, US9561023, US9480467, US9457153, US9451965, US9351736, US9339608, US9339575, US9247942, US9149277, US9107669, US9095344, US9084835, US9017351, US9011486, US8984733, US8864741, US8845614, US8808620, US8795319, US8758427, US8475492, US2015305892, US2015190127, US2013116633, US2012283775, US2012109191, US2011060277, US2010217313, JP2015503951, EP2790594, AU2012352183,

Abstract:
Source: US2010217306A Methods, devices and systems are described for treating venous insufficiency in which the vein is compressed at least partially along a treatment zone. A system can be provided including an injection device, such as a glue gun, that is operably connected to a delivery catheter that can be advanced across a treatment zone in the vein. The delivery catheter can be used to deliver one, two, or more boluses of media (e.g., cyanoacrylate) to occlude the vein along different spaced–apart sections of the treatment zone. External compression can also be applied to the vein by a compression element, such as a hand or multifunctional ultrasound transducer, to occlude portions of the vein along the treatment zone prior to or during the introduction of the boluses of media.

0) US2012089047A – CRYOABLATION APPARATUSES, SYSTEMS, AND METHODS ...

7) Family number: 50623646 (US2012089047A) © PatBase

Title: CRYOABLATION APPARATUSES, SYSTEMS, AND METHODS FOR RENAL NEUROMODULATION

Priority:

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Family:

Publication number	Publication date	Application number	Application date
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Agent(s): FB RICE; OYEN WIGGS GREEN AND MUTALA LLP; ZIMMERMANN AND PARTNER; ZIMMERMANN AND PARTNER PATENTANWAELTE MBB; HAYNES WILLIAM L; SPORER NICOLE C; BAKER THEODORE W; KOPCZYNSKI JEFFIE A; POLEDNA AARON J; KOPCZYNSKI JEFFIE

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 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 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

International class (IPC 8–9): A61B A61B17/00 A61B17/22 A61B17/34 A61B18/00 A61B18/02 A61B18/04 A61B18/08 A61B18/10 A61B18/12 A61B18/14 A61B18/18 A61B5/00 A61B5/026 A61B5/04 A61B5/05 A61F7/00 A61F7/12 A61L29/02 A61L29/04 A61M25/00 A61M25/01 A61M25/088 A61M25/09 A61M29/00 A61M31/00 A61N1/00 A61N1/04 A61N1/06 A61N1/18 A61N1/32 A61N1/36 A61N1/372 B65B3/04 C09K5/04 F17C5/02 (Advanced/Invention); A61B17/00 A61B18/00 A61B18/04 A61B18/08 A61B18/14 A61B18/18 A61F7/00 A61M25/00 A61M25/01 A61N1/06 A61N1/32 (Advanced/Non–invention); A61B (Subclass/Invention)

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US class: 1/1 53/425 600/300 600/300S 600/554 600/554P 606/21 606/21P 606/21S 606/22 606/22P 606/23 606/23P 606/23S 606/27 606/32 606/33 606/33 606/33P 606/34 606/41 606/41S 607/101 607/101S 607/104 607/105 607/105P 607/113 607/113S 607/3 607/3P 607/62 607/62S 607/99 607/99P

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Abstract:
Source: US2012089047A Catheter apparatuses, systems, and methods for cryogenically modulating neural structures of the renal plexus by intravascular access are disclosed herein. One aspect of the present application, for example, is directed to apparatuses, systems, and methods that incorporate a catheter treatment device

comprising an elongated shaft. The elongated shaft is sized and configured to deliver a cryo−applicator to a renal artery via an intravascular path. Cryogenic renal neuromodulation may be achieved via application of cryogenic temperatures to modulate neural fibers that contribute to renal function, or of vascular structures that feed or perfuse the neural fibers.

0) US2001041900A – OCCLUDING DEVICE AND METHOD OF USE

8) Family number: 42591969 (US2001041900A) © PatBase

Title: OCCLUDING DEVICE AND METHOD OF USE

Priority:
AU19990049807 19990708 AU20040201816 20040429 AU20080229892 20081013
EP19970953235 19971216 JP19980527894 19971216 US19960770123 19961218
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Family:

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International class (IPC 8–9): A61B17/00 A61B17/08 A61B17/12 A61B17/42 A61B19/00 A61F2/00 A61F2/06 A61F2/82 A61F2/84 A61F6/02 A61F6/06 A61F6/14 A61F6/20 A61F6/22 A61L29/00 A61M11/00 A61M31/00 (Advanced/Invention);
A61B17/00 A61B17/12 A61B17/42 A61B19/00 A61F2/00 A61F2/82 A61F6/06 A61M31/00 (Advanced/Non–invention);
A61B17/03 A61B17/12 A61B17/42 A61B19/00 A61F2/82 A61F6/00 A61M31/00 (Core/Invention);
A61B A61F (Subclass/Invention)

International class (IPC 1–7): A61B17/08 A61B17/12 A61B17/42 A61B19/00 A61F A61F11/00 A61F2/06 A61F6/02 A61F6/06 A61F6/14 A61F6/20 A61F6/22 A61M29/00 A61M29/02

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Classification Explorer

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Abstract:
Source: US2001041900A A device for occluding a body lumen, and particularly contraceptive or sterilization device for occluding a reproductive tract or lumen to prevent the passage of reproductive cells through the tract or lumen, generally comprising a tubular member, and a mesh member, transversely disposed on the tubular member lumen. The mesh member is permeable to allow for tissue ingrowth, which produces a tissue impregnated mesh occluding the body lumen. The occluding device of the invention can be used in the fallopian tubes of a female patient, the vas deferens of a male patient, or other body lumen.

0) US2002173769A – INFUSION SET FOR A FLUID PUMP

9) Family number: 28276411 (US2002173769A) © PatBase

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Probable Assignee: DEKA PROUDUCTS LTD PARTNERSHIP

Assignee(s):(std)**:** BRYANT JR ROBERT JOHN ; BRYANT ROBERT J ; DEKA PRODUCTS LP ; DEKA PRODUCTS LTD ; DEKA PRODUCTS PARTNERSHIP LTD ; GRAY LARRY B ; DEKA RES AND DEV CORP ; GRANT KEVIN L ; FOO BRIGHT CHONG KHUANG ; GRANT KEVEN L ; FICHERA STEPHEN L ; HAMILTON JARED ; KAMEN DEAN ; DURAND KEVIN A ; LANIER GREGORY R ; LANIER JR GREGORY R ; DEKA PROUDUCTS LTD PARTNERSHIP ; TRACEY BRIAN ; TRACEY BRIAN D ; MANDRO MARC A ; SPENCER GEOFFREY P ; LANIGAN RICHARD ; LANIGAN RICHARD J ; TRACEY BRIAN L ; MANDRO MARC AURELE

Assignee(s): TRACEY BRIAN DANIEL ; DEKA PRODUCTS PARTNERSHIP MANCHESTER LTD ; EUGLY DIABETES CARE LLC ; DEKA PROUDUCTS PARTNERSHIP LTD ; LANIER GREGORY R JR ; DEKA RESEARCH AND DEVELOPMENT CORP ; DEKA PRODUCTS LTD PARTNERSHIP ; DEKA PRODUCTS LTD PARTNERSHIP MANCHESTER ; DEKA PRODUCTS PARNERSHIP LTD

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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 TH TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): A61K9/22 A61M1/00 A61M1/36 A61M25/06 A61M31/00 A61M37/00 A61M39/10 A61M39/14 A61M39/20 A61M5/00 A61M5/14 A61M5/142 A61M5/145 A61M5/158 A61M5/168 A61M5/172 A61M5/178 A61M5/31 A61M5/315 A61M5/50 B23P11/00 F16L21/00 F16L21/08 F16L25/00 F16L37/084 G01F1/28 G01R19/00 G06F17/50 G06F19/00 G06F9/455 G06F9/46 G08B21/00 G08B21/18 G08B29/00 H01M10/42 H01M16/00 H01M2/10 H01M2/34 H01M6/50 H02J7/00 H02J9/06 (Advanced/Invention); A61M25/06 A61M39/10 A61M39/14 A61M5/14 A61M5/142 A61M5/168 A61M5/31 A61M5/315 G08B21/18 H01M6/50 (Advanced/Non–invention); A61K9/22 A61M1/00 A61M25/06 A61M5/14 A61M5/142 A61M5/145 A61M5/178

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A61M25/06 A61M39/00 A61M5/142 H01M6/00 (Core/Non–invention)

International class (IPC 1–7): A61M1/36 A61M25/06 A61M31/00 A61M5/14 A61M5/142 A61M5/145 A61M5/158

CPC: A61M5/172 A61M2005/1402 A61M2039/1077 A61M2205/6054 A61M2205/8212 A61M2209/01 A61M2209/045 A61M5/14546 A61M2205/35 A61M2205/60 A61M5/14248 G08B21/18 G06F17/5054 A61M2005/14292 G06F2217/68 F16L21/08 F16L21/00 F16L37/02 F16L37/098 F16L37/0985 A61M39/20 A61M2039/1044 A61M2039/1072 A61M2205/44 A61M2205/103 A61M5/14566 Y10T137/9029 Y10T137/9138 A61M5/14 A61M25/0612 A61M2005/1581 A61M2005/1587 A61M2005/14264 A61M2005/14208 A61M2230/201 G06F19/3468 A61M5/145 A61M5/14586 A61M2205/3306 A61M2205/50 A61M2005/1585 A61M5/158 A61M39/14 A61M5/168 Y10T29/494 A61M5/16854 A61M2205/16 A61M2205/17 A61M2205/18 H01M10/4264 H01M16/00 A61M2005/14506 Y10T29/49826 A61M5/1723 A61M2205/52 A61M2205/581 A61M2205/582 A61M2205/583 A61M5/5086 A61M5/14244 A61M5/3129 A61M5/31515 A61M39/1011 A61M2005/14268 A61M2005/14573 A61M2005/16863 A61M2039/1027 A61M2205/332 A61M2205/8206 H01M2/1055 H01M10/48 A61M5/16831 H02J9/061 H02J7/0052 H02J7/345 A61M5/1413 A61M5/1456 A61M5/1452 A61M5/142 A61M2205/502 A61M2205/702

European class: A61M39/10B A61M39/14 A61M39/20 A61M5/142 A61M5/142P A61M5/145B A61M5/145B10 A61M5/145B12 A61M5/158 A61M5/168D4 A61M5/172 F16L37/02 F16L37/098 F16L37/098D G06F19/34L H01M10/42S4 H01M10/48 H01M16/00 H01M2/10C2C2 K61M205/16 K61M205/17 K61M205/18 K61M205/33D K61M205/33F K61M205/35 K61M205/44 K61M205/60 K61M205/60M K61M205/82B K61M205/82B2 K61M209/01 K61M209/04F K61M230/20B K61M25/06D K61M39/10B K61M39/10F K61M39/10J K61M39/10V K61M39/10W K61M39/14 K61M5/14 K61M5/142 K61M5/142C K61M5/142P4 K61M5/142P6 K61M5/145B K61M5/145B14 K61M5/145B6 K61M5/14A6 K61M5/158A K61M5/158K K61M5/168D6 K61M5/315C2 T01M10/42S4 Y02E60/12

US class: 1/1 137/798 137/798S 137/799 285/305 285/332 285/399 285/921 29/428 29/428S 29/890.09 324/76.11 324/76.110S 340/506 340/506S 340/603 340/626 340/626P 340/636.15 340/636.150S 340/679 340/679S 340/687 340/687S 417/453 417/477.2 604/111 604/111P 604/114 604/12 604/120 604/121 604/122 604/131 604/151 604/151P 604/151S 604/152 604/152P 604/155 604/158 604/158P 604/192 604/218 604/244 604/500 604/500S 604/506 604/506P 604/533 604/65 604/66 604/67 604/890.1 604/890.100P 604/890.100S 604/93.01 604/93.010P 703/26 703/26S 716/103 73/861.71 73/861.710S

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Abstract:
Source: US2002173769A A medical device for delivery of a fluid to a patient from a line terminating in a tubing needle. The medical device includes a cannula assembly for coupling the fluid into a cannula that is inserted into the patient. The cannula assembly has a first locking element disposed in a fixed position with respect to the cannula. Coupling the line to the cannula assembly is an infusion flap. The infusion flap includes a second locking element for engaging the first locking element of the cannula assembly and a lift tab for disconnecting the infusion flap from the cannula assembly. Coupling of the first and second locking elements requires initial mating of the infusion flap and cannula assembly followed by locking through rotation of the infusion flap with respect to the cannula assembly.

10) Family number: 50475283 (US2012123322A) © PatBase

Title: MEDICAL TREATMENT SYSTEM AND METHODS USING A PLURALITY OF FLUID LINES

Priority:

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Probable Assignee: DEKA PRODUCTS LP

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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

International class (IPC 8–9): A61M1/10 A61M1/14 A61M1/16 A61M1/28 A61M1/30 A61M1/36 A61M39/10 A61M39/20 A61M39/22 A61M39/28 A61M5/168 A61M5/44 A61N1/30 F04B43/02 F16L53/00 F17D1/00 G01J1/42 G01N1/42 G01N21/85 G01N21/88 G01V8/20 H02J7/00 H05B1/02 (Advanced/Invention)

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European class: G01V8/20 K61M1/28P K61M1/36C7C K61M205/12 K61M205/13 K61M205/14 K61M205/33D

US class: 1/1 137/334 137/565.01 250/216 250/216S 250/573 250/573S 250/578.1 320/136 417/478 604/114 604/250 604/28 604/29 604/29P 604/533

Classification Explorer

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Forward Citations: WO17055109, WO16039822, WO16034287, WO15188154, WO15174420, WO15174419, WO15170930, USD732663, US9649418, US9642737, US9624915, US9616172, US9610392, US9603985, US9597442, US9593679, US9561323, US9561318, US9561317, US9555179, US9539379, US9535021, US9517295, US9500188, US9476795, US9433734, US9421314, US9366781, US9364655, US9358332, US9345830, US9333286, US9308321, US9302037, US9272082, US9248225, US9198620, US9192509, US9180240, US9132222, US9115708, US9101709, US9078971, US9066781, US9028691, US9028440, US9022969, US9011114, US8992777, US8992189, US8992075, US8986254, US8985133, US8964406, US8936720, US8932032, US8926835, US8888470, US8870549, US8840581, US8837104, US8797714, US8721884, US8721883, US8721879, US8708950, US8631683, US8562834, US8545698, US8499780, US8491184, US8459292, US8393690, US8366655, US2017092227, US2015342777, US2014277614, US2014236087, US2014216560, US2014160715, US2014097303, US2013211378, US2013132977, US2012289928, US2012215159, US2012212455, US2012071815, US2011152628, US2011125085, US2011106002, US2011098635, US2011092894, US2011092893, JP5945368, JP2016147117, JP2015213642, EP3153192, EP3132816, EP3034112, EP2953665, DE102015117095, DE102015010431, CN103830791,

Abstract:
Source: US2012123322A A medical treatment system, such as peritoneal dialysis system, may include control and other features to enhance patient comfort and ease of use. For example, a peritoneal dialysis system may include patient line state detector for detecting whether a patient line is primed before it is to be connected to the patient. The patient line state detector can also the ability to detect whether a patient line has been properly mounted for priming. Both patient line presence/absence and fill state can be determined using an optical system, e.g., one that employs a single optical sensor.

11) Family number: 31811453 (US2002029054A) © PatBase

Title: ULTRASONIC MEDICAL DEVICE FOR TISSUE REMODELING

Priority:

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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: CYBERSONICS INC

Assignee(s):(std)**:** CYBERSONICS INC ; HARE BRADLEY A ; RABINER ROBERT ; RABINER ROBERT A ; MARCIANTE REBECCA I ; PRASAD JANNIAH S ; OMNISONICS MEDICAL TECHNOLOGIE ; OMNISONICS MEDICAL TECH ; OMNISONICS MEDICAL TECHNOLOGIES INC ; RANUCCI KEVIN J ; VARADY MARK J ; ROBERTSON ROY M ; TALBOT SCOTT A

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Inventor(s): KELLEY CRAIG ; HARE BRAD ; HARE BRADLEY

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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 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

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European class: A61B17/00E A61B17/225C A61B17/22B2 A61B17/32U A61N7/02C K61B17/00C4 K61B17/00E1P K61B17/00K K61B17/22A2 K61B17/22B1C K61B17/22B1C2 K61B17/22B2B2 K61B17/22B2B2S K61B17/22H K61B17/29J2R2 K61B17/32U K61B17/32U10 K61B17/32U2 K61B17/32U4 K61B18/00F13 K61B18/00R K61B217/00Q16 K61B217/00Q18 K61M1/00T2 K61N7/00A2

US class: 60/42.1 60/42.2 600/411 600/411S 600/437 600/437P 600/439 600/439P 600/439S 600/459 600/459P 600/462 600/463 600/466 600/467 600/467P 600/471 601/2 601/2P 601/4 601/4S 604/167.02 604/170.03 604/20 604/20P 604/21 604/22 604/22S 606/114 606/115 606/128 606/128P 606/128S 606/159 606/159P 606/167 606/169 606/169P 606/169S 606/170 606/171

Classification Explorer

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Forward Citations: WO17013813, WO16204957, WO16081026, WO16022221, WO15141921, WO15100285, WO15073643, WO14141052, WO14105754, WO14042890, WO14011360, WO14005155, WO14003709, WO13128013, WO13072357, WO13072357, WO13055795, WO13031490, WO12027722, WO12027722, WO11157362, WO11094626, WO11094626, WO11094379, WO11054352, WO11022251, WO11022251, WO11020097, WO10129773, WO10103508, WO10093521, WO10088637, WO10086741, WO10054214, WO10042296, WO10027325, WO09125002, WO09105649, WO09105649, WO09095894, WO09091937, WO09082634, WO09032439, WO09027846, WO09027846, WO08157173, WO08154504, WO08154504, WO08031033, WO07147022, WO07139564, WO07047726, WO07031522, WO06110773, WO06041481, WO06041475, WO06023481, WO05084552, WO04096061, WO04012609, USRE46049, USRE42803, USD700967, USD700966, USD700699, USD691265, USD687549, USD661804, USD661803, USD661802, USD661801, USD631965, USD618797, USD556322, USD512924, US9668809, US9662481, US9649154, US9649153, US9649126, US9642673, US9642644, US9642639, US9642635, US9642634, US9636135, US9636133, US9629643, US9623237, US9622766, US9622749, US9622706, US9622646, US9615844, US9612105, US9597152, US9596993, US9592086, US9579494, US9579114, US9572619, US9566456, US9566454, US9561068, US9561067, US9561066, US9554815, US9549752, US9539020, US9539019, US9533175, US9526923, US9526865, US9526864, US9526555, US9526460, US9522290, US9522012, US9517047, US9510850, US9510849, US9510802, US9504855, US9504483, US9504471, US9504446, US9498651, US9498245, US9486236, US9486143, US9478940, US9474676, US9468367, US9464961, US9463036, US9452302, US9445832, US9445829, US9440096, US9439669, US9439668, US9433784, US9433450, US9433433, US9433429, US9433428, US9427601, US9427600, US9427504, US9427465, US9427289, US9427288, US9427249, US9427248, US9421029, US9421025, US9421024, US9415242, US9414853, US9412357, US9408622, US9408620, US9402707, US9402677, US9402646, US9398933, US9398930, US9398894, US9393070, US9393037, US9393036, US9387005, US9383263, US9381027, US9375223, US9375198, US9370321, US9367965, US9364246, US9360630, US9360124, US9358180, US9358064, US9358033, US9358024, US9357977, US9351754, US9351753, US9351749, US9351702, US9345910, US9345507, US9345506, US9345505, US9339618, US9339289, US9339288, US9339284, US9333005, US9333000, US9326788, US9326786, US9324141, US9320537, US9320528, US9314281, US9308148, US9308105, US9307926, US9301769, US9301687, US9292918, US9289224, US9286673, US9283410, US9283409, US9283374, US9283045, US9283033, US9282992, US9282984, US9278027, US9272162, US9272132, US9272124, US9271751, US9265868, US9265563, US9265549, US9265520, US9263663, US9259237, US9259234, US9254195, US9254156, US9248317, US9241732, US9241731, US9241728, US9237921, US9233021, US9232979, US9232958, US9226979, US9226767, US9226766, US9220527, US9220521, US9216276, US9211332, US9211137, US9198714, US9198708, US9192566, US9180315, US9180280, US9179968, US9179959, US9179928, US9177543, US9173667, US9168054, US9149658, US9149328, US9149291, US9144694, US9144442, US9138249, US9125706, US9125643, US9125552, US9114247, US9114245, US9107689, US9107590, US9095697, US9095367, US9095366, US9089360, US9079762, US9078994, US9078688, US9072565, US9072539, US9072534, US9067015, US9066747, US9066681, US9061131, US9060776, US9060775, US9050124, US9050093, US9049783, US9044619, US9044618, US9044568, US9044542, US9044261, US9044259, US9039722, US9039695, US9039619, US9039617, US9033976, US9028417, US9027564, US9023070, US9022977, US9017326, US9017324, US9017284, US9011473, US9011463, US9011462, US9011373, US9011337, US9011336, US9005254, US9005229, US9005216, US9005195, US8992557, US8986333, US8986302, US8979890, US8979881, US8974477, US8974446, US8974445, US8974398, US8968330, US8961547, US8961508, US8961507, US8961423, US8956375, US8956374, US8956371, US8956349, US8951274, US8951272, US8951248, US8944071, US8942781, US8939977, US8939960, US8936644, US8936382, US8932289, US8932237, US8932224, US8920452, US8920413, US8915966, US8915870, US8915853, US8911460, US8911439, US8906054, US8906031, US8906030, US8900262, US8900261, US8900259, US8894678, US8894674, US8888809, US8888788, US8888769, US8882792, US8882791, US8882674, US8870965, US8870796, US8858528, US8852205, US8852166, US8841823, US8840627, US8821489, US8808319, US8808280, US8801702, US8801606, US8790359, US8790291, US8788016, US8784356, US8783247, US8779648, US8777976, US8777943, US8777858, US8773001, US8771329, US8764779, US8764700, US8754570, US8750983, US8749116, US8747416, US8740895, US8740835, US8734460, US8734368, US8733367, US8731672, US8728091, US8727993, US8721573, US8721565, US8709075, US8709031, US8704425, US8696612, US8690819, US8690818, US8684965, US8679049,

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Abstract:
Source: US2002029054A A method for destructing, reducing or removing mammalian tissue with an ultrasonic device IS disclosed, comprising contacting the tissue with a transverse mode ultrasonic probe, and transmitting

ultrasonic energy to the probe, until the tissue is fragmented by emulsification. The probe can be used with acoustic and/or aspirations sheaths to enhance destruction and removal of an occlusion and in combination with an imaging device to effect remodeling of human tissue in medical and cosmetic surgical procedures.

0) US2004181206A – RETROGRADE PRESSURE REGULATED INFUSION

12) Family number: 30953265 (US2004181206A) © PatBase

Title: RETROGRADE PRESSURE REGULATED INFUSION

Priority: US20030387048 20030312 US20030467402P 20030501 US20070923068 20071024 US20070877967 20071024 US20060609143 20061211 US20040800323 20040311 US20070923258 20071024 US20070923332 20071024 US20070923411 20071024

Family:

Publication number	Publication date	Application number	Application date
US2004181206 AA	20040916	US20030387048	20030312
US2005015048 AA	20050120	US20040800323	20040311
US2007106258 AA	20070510	US20060609143	20061211
US2008041516 AA	20080221	US20070923258	20071024
US2008103478 AA	20080501	US20070923068	20071024
US2008103523 AA	20080501	US20070923332	20071024
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US7250041 BB	20070731	US20030387048	20030312
US7887661 BB	20110215	US20070923258	20071024
US8182463 BB	20120522	US20060609143	20061211
US9023010 BB	20150505	US20070923068	20071024
WO04080508 A2	20040923	WO2004US07735	20040312
WO04080508 A3	20050127	WO2004US07735	20040312

Probable Assignee: ADVANCED CARDIOVASCULAR SYSTEM

Assignee(s):(std): CHIU JESSICA G ; CHAN GREGORY WAIMONG ; BAI HONGZHI ; BEI NIANJIONG J ; BLY MARK J ; ASONGWE GABRIEL ; ESSELSTEIN ROBERT C ; GESSWEIN DOUGLAS ; BEI NIANJIONG JOAN ; CHOW MINA ; CHAN GREGORY W ; CHIU JESSICA ; SRIDHARAN SRINIVASAN ; HATTEN TOM ; WEBLER WILLIAM E ; SCHAIBLE STEPHEN G ; SHEN YAN ; HATTEN THOMAS R ; ABBOTT CARDIOVASCULAR SYSTEM I ; ABBOTT CARDIOVASCULAR SYSTEMS ; ADVANCED CARDIOVASCULAR SYSTEM

Assignee(s): ADVANCED CARDIOVASCULAR SYSTEMS INC ; ABBOTT CARDIOVASCULAR SYSTEMS INC ; ABBOTT CARDIOVASCULAR SYSTEM INC

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Agent(s): BLAKELY SOKOLOFF TAYLOR AND ZAFMAN; BLAKELY SOKOLOFF TAYLOR AND ZAFMAN LLP; ANGELA; ANGELA M

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 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

International class (IPC 8–9): A61F2/958 A61M25/00 A61M25/09 A61M25/10 A61M29/00 A61M29/02 A61M31/00 B29C53/60 B32B37/00 (Advanced/Invention)

International class (IPC 1–7): A61M25/10 A61M29/00 A61M31/00

CPC: A61M25/10 A61M25/1002 A61M2025/1052

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US class: 156/173 156/175 156/187 156/191 156/194 156/308.2 600/486 600/486S 604/101.04 604/101.040P 604/103.01 604/103.010S 604/503 604/508 604/509 604/509P 604/510 604/523 604/528 604/528S 604/532 604/96.01 604/96.010S 604/97.01 604/97.02 604/97.020P 604/99.01 604/99.010P 606/200 606/200P

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Abstract:
Source: US2004181206A A delivery catheter that includes a flexible shaft having a proximal end and a distal end, the distal end having an outer diameter less than about 13 mm; a delivery lumen having a proximal end and a distal end, the delivery lumen within the flexible shaft, the delivery lumen having at least an outlet port or at least one side hole at the distal end of the delivery lumen, the delivery lumen having a cross−sectional area at least about 5 mm<2>; a pressure monitoring lumen having a proximal end and a distal end, the pressure monitoring lumen within the flexible shaft; a pressure port adjacent to and connected to the distal end of the pressure monitoring lumen; a balloon inflation lumen having a proximal end and a distal end, the balloon inflation lumen within the flexible shaft; a soft tip at the distal end of the flexible shaft; a balloon at the distal end of the flexible shaft, the balloon connected to the distal end of the balloon inflation lumen, the balloon includes at least one of the following materials, polyether block amide resin, polyetheramide, polyurethane, silicone, natural latex, or synthetic latex; wherein the balloon is adapted to inflate to a diameter range of about 4 to about 15 mm.

0) US2001000797A – METHOD AND APPARATUS FOR OCCLUDING ANEURYSMS

13) Family number: 28302234 (US2001000797A) © PatBase

Title: Method and apparatus for occluding aneurysms

Priority:

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Probable Assignee: TYCO HEALTHCARE GROUP LP

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Assignee(s): ST JUDE MEDICAL CARDIOLOGY DIVISION INC ; EV3 INC PLYMOUTH ; MAZZOCHI RUDY ; TYCO HEALTHCARE GROUP LP ; LEHMAN COMMERCIAL PAPER INC ; MICROVENA CORP WHITE BEAR LAKE ; EV3 LLC ; BANK OF AMERICA NA

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Agent(s): SIM AND MCBURNEY; FINLAYSON AND SINGLEHURST; HOWE STEVEN; TSURUTA JUNICHI; NISHIYAMA MASAYA; HIGUCHI SOTOJI; ISHIDA TAKASHI; POPOVICH WILES AND OCONNELL PA 650 THIRD AVENUE SOUTH; POPOVICH WILES AND O'CONNELL PA, 650 THIRD AVENUE SOUTH; POPOVICH WILES AND OCONNELL PA; POPVICH WILES AND OCONNELL PA

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM EE ES FI FR GA GB GD GE GH GM GN 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 NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

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Abstract:
Source: US2001000797A The present invention provides aneurysm occlusion devices 60, 160 formed from a resilient metal fabric and a method for reliably and effectively occluding aneurysms. In accordance with one aspect of the invention, the aneurysm devices include a body portion 80 which is sized to be received within an aneurysm and an anchor 70 which is sized, and may also be preformed into a specific shape, to engage the lumen of a vessel having the aneurysm thereon. The aneurysm occluder 60 may also include a generally tubular central portion 62 extending between the body portion and the anchor, the central portion being sized and shaped to be received within the neck of the aneurysm. The present invention has particular advantages over prior minimally invasive techniques for occluding aneurysms in that it can both fill the aneurysm and occlude or "stent" the neck of the aneurysm in one step. It also minimizes damage to healthy vessel tissue by localizing contact with the interior of the vessel.

14) Family number: 31873289 (US2005094483A) © PatBase

Title: TWO–STAGE MIXING SYSTEM, APPARATUS, AND METHOD

Priority:

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US class: 1/1 137/3 137/565.29 137/7 137/896 141/100 141/285 141/329 206/222 206/222S 222/255 29/700 29/700P 292/256.65 292/303 292/303P 292/95 366/142 366/142P 366/151.1 366/151.100S 366/152.1 366/152.100S 366/152.2 366/152.6 366/152.600S 366/154.1 366/160.2 366/160.200P 366/160.3 366/160.5 366/167.1 366/182.2 366/275 366/348 417/375 417/395 417/413.1 417/440 417/477.1 417/477.2 417/477.9 417/53 417/572 423/658.5 423/658.500S 435/2 435/238 435/2P 435/4 435/4P 604/15 604/151 604/153 604/403 604/411 604/415 604/416 604/65 604/85 604/86 604/88 92/98R

Classification Explorer

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US9468714, US9421314, US9388803, US9386922, US9366781, US9364655, US9358332, US9302037, US9295765, US9283145, US9272082, US9271806, US9248225, US9242034, US9222472, US9211377, US9180240, US9144646, US9138379, US9133835, US9132061, US9126219, US9115709, US9115708, US9101709, US9078971, US9039395, US9028691, US9028440, US9028436, US9022969, US9011114, US9005157, US8998836, US8992189, US8992075, US8986254, US8985133, US8968232, US8961444, US8950728, US8932469, US8932032, US8926835, US8926561, US8926540, US8926294, US8920362, US8888470, US8882692, US8881774, US8870549, US8863772, US8840581, US8834719, US8814000, US8790096, US8777590, US8771508, US8758323, US8757991, US8749188, US8721884, US8721879, US8715235, US8708950, US8562834, US8562584, US8556225, US8545698, US8512275, US8499780, US8496609, US8491528, US8491184, US8465446, US8460228, US8459292, US8438871, US8434642, US8425767, US8425487, US8425471, US8409441, US8393690, US8382696, US8366655, US8366316, US8357298, US8337449, US8329030, US8328758, US8323492, US8317492, US8298986, US8298184, US8292594, US8287495, US8273049, US8246826, US8202241, US8197439, US8197231, US8162176, US8158102, US8114276, US8105265, US8083503, US8062008, US8057423, US8042563, US8038640, US8038639, US7967022, US7935081, US7934912, US7914490, US7909795, US7905853, US7837651, US7766538, US7766301, US7717682, US7453690, US2015198501, US2015196698, US2015125319, US2015088094, US2014360594, US2014276424, US2014010690, US2012207627, US2012164006, US2012030921, US2011186177, US2011166507, US2011165005, US2011163033, US2011125085, US2011120172, US2011106047, US2011106002, US2011098721, US2011092894, US2011092891, US2011071465, US2011004145, US2010327849, US2010296953, US2010280435, US2010280434, US2010249693, US2010234809, US2010181235, US2010128555, US2010106091, US2010087771, US2010057016, US2009202367, US2009137940, US2009123299, US2009112151, US2009107902, US2009099518, US2009099498, US2009048607, US2009012461, US2009012457, US2009012456, US2009012448, US2009004033, US2008253912, US2008253911, US2008208103, US2008202626, US2008114311, US2008114291, US2008113331, US2008112828, US2008077068, US2008074837, US2008058697, US2007077156, US2007064520, US2006106345, US2006042633, US2005182409, US2005095576, JP5798169, JP2014111115, EP3100750, EP3031490, EP2724736, EP2586472, CN105343955, CN103889388,

Abstract:
Source: US2005094483A A two−stage mixing system, apparatus, and method produces a solution including a first substance and a second substance in a predetermined ratio by first mixing the first substance with a first liquid to produce a first solution and then mixing the first solution with the second substance to produce a second solution. Multiple batches of second solution may be produced from a single batch of first solution. Multiple batches of second solution may be produced in parallel.

15) Family number: 43086855 (US2010256616A) © PatBase

Title: RECANALIZING OCCLUDED VESSELS USING RADIOFREQUENCY ENERGY

Priority:

CN201180024331	20110401	EP20110763547	20110401	US20070975473P	20070926
JP20100527088	20080923	JP20100527088T	20080923	JP20130502905T	20110401
US20080680500	20080923	US20100298547P	20100126	US20100753844	20100402
US20100680500	20100803	US20120560841	20120727	US20110639092	20110401
US20160003098	20160121	US20130639092	20130118	WO2008US77403	20080923
WO2011US31018	20110401	US20160389589	20161223		

Family:

Publication number	Publication date	Application number	Application date
AU2008304599 AA	20090402	AU20080304599	20080923
AU2008304599 BB	20121122	AU20080304599	20080923
AU2011235882 AA	20111006	AU20110235882	20110401
CA2700968 AA	20100326	CA20082700968	20080923
CA2795256 AA	20121001	CA20112795256	20110401
CN103037795 A	20130410	CN201180024331	20110401
CN103037795 B	20151125	CN201180024331	20110401
CN105250022 A	20160120	CN201510615748	20110401
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JP2014208263 A2	20141106	JP20140124232	20140617
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JP5917487 B2	20160518	JP20130502905T	20110401
JP6050283 B2	20161221	JP20140124232	20140617
KR101228879 B1	20130205	KR20107008803	20080923
KR101671333 B1	20161101	KR20127028633	20110401
KR20100075528 A	20100702	KR20107008803	20080923
KR20130041800 A	20130425	KR20127028633	20110401
US2010256616 AA	20101007	US20100753844	20100402
US2010292685 AA	20101118	US20080680500	20080923
US2012296262 AA	20121122	US20120560841	20120727
US2013131513 AA	20130523	US20110639092	20110401
US2016135881 AA	20160519	US20160003098	20160121
US2017100192 AA	20170413	US20160389589	20161223
US8911435 BB	20141216	US20080680500	20080923
US9271787 BB	20160301	US20110639092	20110401
US9283034 BB	20160315	US20100753844	20100402
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WO09042614 A1	20090402	WO2008US77403	20080923
WO11123834 A1	20111006	WO2011US31018	20110401

Probable Assignee: RETROVASCULAR, INC.

Assignee(s):(std)**:** KATOH OSAMU ; OGATA WAYNE ; RETRO VASCULAR INC ; RETROVASCULAR INC

Assignee(s): RETROVASCULAR INC PLEASANTON

Inventor(s):(std)**:** KATO OSAMU ; KATOH OSAMU ; OGATA WAYNE ; OSAMU KATOH ; WAYNE OGATA

Agent(s): GRIFFITH HACK; INGALLS DORAN J; PARLEE MCLAWS LLP; FASKEN MARTINEAU DUMOULIN LLP; BETTEN AND RESCH PATENT U RECHTSANWAELTE PARTGMBB; ILGART JEAN CHRISTOPHE; BREVALEX; NIXON PEABODY LLP; LECLAIRRYAN A PROFESSIONAL CORP; KREBS ROBERT E ET AL; HAYES JENNIFER 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 TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): A61B17/00 A61B17/22 A61B18/00 A61B18/12 A61B18/14 A61B18/18 A61B18/20 A61B18/24 A61B5/00 A61B8/12 A61B90/00 A61F2/958 A61H1/00 A61M13/00 A61M25/00 A61M25/09 A61M25/10 A61M25/14 A61M37/00 A61M5/00 A61M5/14 A61N7/02 (Advanced/Invention);
A61B17/3207 A61B18/00 A61B18/18 A61B18/20 A61B18/24 A61B19/00 A61M25/09 A61M25/10 A61N7/02 (Advanced/Non–invention)

CPC: A61B5/0059 A61M5/00 A61M13/003 A61B18/245 A61B8/12 A61B2018/00285 A61B2018/00291 A61B90/37 A61B2018/00029 A61B2018/00839 A61B2018/00982 A61B2090/3782 A61B18/18 A61B18/1815 A61B18/24 A61B2017/320716 A61B2018/0041 A61B2018/1472 A61B2018/1861 A61B2090/378 A61N7/022 A61B18/20 A61M25/09 A61M25/10 A61B5/0066 A61B90/39 A61B18/1206 A61M5/14 A61B2018/00154 A61B2018/0022 A61B2018/00267 A61B2018/00988 A61B2018/046 A61B2018/048 A61B2018/144 A61B2018/1467 A61B2090/376 A61B2090/3966 A61F2/01 A61B18/1492 A61B2018/00214

European class: A61B18/14V A61B18/18 A61B18/18M K61B18/00F6C2 K61B18/18M K61B18/18M6 K61B18/24 K61B18/24B K61B19/52H14 K61N7/02C

US class: 1/1 600/443 600/478 601/2 601/2S 604/20 604/21 604/26 604/264 606/10 606/128 606/128S 606/200 606/200S 606/33 606/33P 606/33S 606/34 606/41 606/41S 606/42 606/7 606/7P

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Forward Citations: WO16134152, WO14145903, WO14145903, WO13013248, WO13013248, WO12137139, WO11123834, WO11094767, WO11094767, USD770616, USD765243, US9622706, US9612105, US9603618, US9596993, US9592386, US9579494, US9579030, US9561073, US9510901, US9498183, US9486355, US9486276, US9486270, US9486143, US9478940, US9463062, US9456872, US9433760, US9420955, US9415242, US9413896, US9408661, US9402684, US9383263, US9367965, US9364284, US9364195, US9360630, US9358365, US9327100, US9326751, US9324141, US9307926, US9301687, US9297845, US9292918, US9291663, US9289226, US9286673, US9283040, US9283034, US9277955, US9271787,

US9265969, US9220561, US9220558, US9192790, US9192566, US9192435, US9186211, US9186210, US9186209, US9174050, US9173696, US9162046, US9155589, US9125667, US9125666, US9119651, US9119632, US9119600, US9107590, US9089350, US9084620, US9084609, US9079000, US9072902, US9066685, US9060761, US9050106, US9044568, US9039702, US9037259, US9028520, US9028485, US9028472, US9023034, US9017323, US8974451, US8961551, US8951251, US8939970, US8911435, US8882754, US8880185, US8852166, US8764700, US8740835, US8696612, US8690818, US8529506, US2014309632, US2014276341, US2014194738, US2014180034, US2012296262, US2011208181, US2011166591, US2010292685, US2010256616, US2008306499, KR20130041800, KR101671333, KR101168476, JP2016052601, JP2013523285, EP2694149, EP2552336, EP2552336, DE102015117171, CN103635222, CN103037795,

Abstract:
Source: US2010256616A A method and systems for treating chronic total occlusions, particularly those that are difficult to treat, is disclosed. In this approach, recanalizing the CTO is achieved using a combined antegrade and retrograde approach. The proximal end of the occlusion is penetrated using an antegrade wire, using a traditional approach. Using collateral vessels, the distal end of the occlusion is crossed in a retrograde fashion. By appropriately maneuvering each member and applying radiofrequency energy between the proximal and distal ends of the occlusion, a continuous channel is created.

16) Family number: 30149454 (US2003178009A) © PatBase

Title: FUEL INJECTOR FOR AN INTERNAL COMBUSTION ENGINE

Priority:

EP20030778035	20031031	EP20040817490	20041029	US20020143250	20020510
US20020367121	20020322	US20030410957	20030410	US20020284180	20021031
US20030342267	20030115	US20030410976	20030410	US20020367121P	20020322
US20040870634	20040617	WO2003US09218	20030324	US20050137910	20050526
US20040975269	20041028	WO2004US11344	20040409	US20040968386	20041019
WO2003US34753	20031031	US20030515924P	20031030	WO2003US39313	20031210
WO2003US09128	20030324	WO2003US09128	20040921	WO2003US09218	20040921
WO2004US36130	20041029	WO2004US11345	20040409		

Family:

Publication number	Publication date	Application number	Application date
AT366360 E	20070715	AT20030714399T	20030324
AT366361 E	20070715	AT20030719466T	20030324
AT426093 E	20090415	AT20040817490T	20041029
AT491882 E	20110115	AT20040009560T	20041029
AU2003218400 AA	20031013	AU20030218400	20030324
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AU2004230521 AA	20041028	AU20040230521	20040409
AU2004230521 BB	20091119	AU20040230521	20040409
BRPI0308622 A	20080520	BR2003PI08622	20030324
BRPI0308622 B1	20120417	BR2003PI08622	20030324
BRPI0308625 A	20070109	BR2003PI08625	20030324
BRPI0308625 B1	20120306	BR2003PI08625	20030324
BRPI0315880 A	20051004	BR2003PI15880	20031031
BRPI0318001 A	20051129	BR2003PI18001	20031210
BRPI0318001 B1	20130305	BR2003PI18001	20031210
BRPI0409240 A	20060328	BR2004PI09240	20040409
BRPI0409274 A	20060411	BR2004PI09274	20040409
CA2480083 AA	20040922	CA20032480083	20030324
CA2480083 C	20120124	CA20032480083	20030324
CA2480108 AA	20040922	CA20032480108	20030324
CA2480108 C	20110614	CA20032480108	20030324
CA2504425 AA	20050429	CA20032504425	20031031
CA2504425 C	20100323	CA20032504425	20031031
CA2513381 AA	20050713	CA20032513381	20031210
CA2513381 C	20080923	CA20032513381	20031210
CA2522340 AA	20051007	CA20042522340	20040409
CA2522340 C	20120605	CA20042522340	20040409
CA2522342 AA	20051007	CA20042522342	20040409
CA2522342 C	20120605	CA20042522342	20040409
CN100379978 C	20080409	CN20038010709	20030324
CN100387827 C	20080514	CN20038011416	20030324

CN100436806 C	20081126	CN200480014852	20040409	
CN100449131 C	20090107	CN200480016370	20040409	
CN100451325 C	20090114	CN200380110141	20031210	
CN100538051 C	20090909	CN200380108067	20031031	
CN1653261 A	20050810	CN20038010709	20030324	
CN1656311 A	20050817	CN20038011416	20030324	
CN1735745 A	20060215	CN200380108067	20031031	
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Probable Assignee: PHILIP MORRIS USA INC

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Agent(s): SHELSTON IP; CALLINANS; FISHER ADAMS KELLY CALLINANS; RIDOUT AND MAYBEE LLP; KADOR AND PARTNER; MICHAEL J MLOTKOWSKI ROBERTS MLOTKOWSKI AND HOBBES PC; ROBERTS MLOTKOWSKI AND HOBBES

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

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F02D (Subclass/Invention)

International class (IPC 1−7): B05C1/00 F02B19/00 F02B3/00 F02B51/00 F02B77/04 F02D41/00 F02D41/06 F02D41/22 F02D41/30 F02D41/34 F02G5/00 F02M1/00 F02M21/00 F02M21/06 F02M29/04 F02M3/06 F02M31/00 F02M31/125 F02M31/18 F02M47/04 F02M51/00 F02M51/06 F02M51/08 F02M53/06 F02M57/00 F02M61/16 F02M61/18 F02M65/00 F02M69/00 F02N17/04

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Abstract:
Source: US2003178009A A fuel injector for vaporizing a liquid fuel for use in an internal combustion engine. The fuel injector includes at least one capillary flow passage, the at least one capillary flow passage having an inlet end and an outlet end, a fluid control valve for placing the inlet end of the at least one capillary flow passage in fluid communication with the liquid fuel source and introducing the liquid fuel in a substantially liquid state, a heat source arranged along the at least one capillary flow passage, the heat source operable to heat the liquid fuel in the at least one capillary flow passage to a level sufficient to change at least a portion thereof from the liquid state to a vapor state and deliver a stream of substantially vaporized fuel from the outlet end of the at least one capillary flow passage and means for cleaning deposits formed during operation of the apparatus. The fuel injector is effective in reducing cold−start and warm−up emissions of an internal combustion engine. Efficient combustion is promoted by forming an aerosol of fine droplet size when the substantially vaporized fuel condenses in air.

17) Family number: 33462600 (US2006264706A) © PatBase

Title: ENDOLUMINAL TREATMENT METHOD AND ASSOCIATED SURGICAL ASSEMBLY INCLUDING TISSUE OCCLUSION DEVICE

Priority:
EP20060789411 20060804 US20040801283 20040316 US20050197965 20050805
US20090547258 20090825 US20090547296 20090825 US20090547279 20090825
WO2006US30464 20060804 US20090547322 20090825 US20140214898 20140315
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Family:

Publication number	Publication date	Application number	Application date
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Inventor(s):(std)**:** GREGORY PISKUN ; PISKUN GREGORY

Inventor(s): PISKUN GREGORYUS

Agent(s):

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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 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 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 ZA ZM ZW

International class (IPC 8–9): A61B1/00 A61B1/018 A61B1/04 A61B1/045 A61B1/05 A61B1/06 A61B1/31 A61B1/32 A61B17/072 A61B17/128 A61B17/22 A61B17/221 A61B17/32 A61B17/3205 A61B18/14 A61B18/22 (Advanced/Invention);
A61B1/00 A61B1/04 A61B17/00 A61B17/34 A61B18/00 A61B18/22 (Advanced/Non–invention);
A61B1/00 A61B1/012 A61B1/32 A61B17/12 A61B17/22 A61B18/14 (Core/Invention)

CPC: A61B1/31 A61B1/018 A61B1/045 A61B1/051 A61B17/3205 A61B1/0676 A61B1/00078 A61B2017/32004 A61B2017/00269 A61B2017/0034 A61B18/1442 A61B17/072 A61B2017/07214 A61B2017/07221 A61B2017/3452 A61B2018/005 A61B2018/00589 A61B2018/00428 A61B2018/0063 A61B18/22 A61B2017/00893 A61B17/22 A61B18/1445 A61B1/00082 A61B17/320016

European class: A61B1/31 A61B17/072 A61B18/14F K61B17/072H K61B17/072H2 K61B17/34G4N2 K61B18/00F9G K61B18/14F2 K61B18/22

US class: 227/175.1 227/175.2 227/180.1 227/19 600/104 600/104P 600/105 600/105P 600/114 600/114S 600/129 600/219 600/219P 600/219S 606/110 606/111 606/112 606/113 606/142 606/157 606/157P 606/158 606/197 606/205 606/206 606/207 606/219

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US9597075, US9592056, US9592051, US9585660, US9572572, US9565998, US9561024, US9554802, US9554690, US9538997, US9532780, US9517070, US9498214, US9474540, US9474519, US9468426, US9463018, US9421013, US9408597, US9375218, US9358006, US9351759, US9351734, US9351724, US9351717, US9345482, US9333001, US9307976, US9307975, US9295459, US9289212, US9289200, US9289115, US9277908, US9272138, US9271753, US9241697, US9232947, US9226760, US9192366, US9192291, US9186131, US9186130, US9161746, US9149271, US9131835, US9125636, US9119621, US9113886, US9113871, US9101354, US9095300, US9078695, US9055936, US9039601, US9022274, US9017254, US9016547, US9011317, US9010605, US9005116, US8986202, US8973583, US8968275, US8961410, US8961406, US8945163, US8932214, US8932211, US8931680, US8926506, US8911366, US8905289, US8900255, US8894571, US8893948, US8876698, US8875974, US8870904, US8863748, US8833630, US8821391, US8801735, US8801734, US8795163, US8783543, US8758236, US8740785, US8734336, US8721537, US8715166, US8708212, US8703034, US8684252, US8684251, US8684248, US8679007, US8672839, US8672207, US8657741, US8657740, US8647265, US8632458, US8608046, US8568426, US8562592, US8550325, US8545450, US8540132, US8517995, US8506479, US8496581, US8485970, US8480575, US8475490, US8469977, US8465422, US8460337, US8453913, US8453911, US8439935, US8430811, US8430808, US8430292, US8425410, US8424535, US8419635, US8414487, US8393516, US8388526, US8375955, US8361109, US8360295, US8357086, US8357085, US8353824, US8348122, US8343185, US8343047, US8328761, US8322590, US8317691, US8317075, US8313431, US8308639, US8292904, US8281974, US8277376, US8272555, US8267858, US8267301, US8262568, US8257251, US8251900, US8241209, US8235054, US8231042, US8226553, US8226552, US8206294, US8187178, US8187177, US8186557, US8181838, US8157835, US8146790, US8137267, US8113409, US8109873, US8105234, US8100822, US8097002, US8070676, US8033995, US8016755, US8011554, US7975895, US7837612, US7770776, US7608073, US7546940, US7303106, US2016038015, US2015080656, US2014257036, US2014163499, US2014128677, US2014088369, US2013345511, US2012004546, US2011201895, US2011172491, US2011130771, US2011105848, US2010262170, US2010243706, US2010228272, US2010213240, US2010030019, US2010023023, US2010010297, US2009312602, US2009259110, US2009222035, US2009001127, US2008319269, US2008281204, US2008262511, US2007088379, US2006264706, US2006025766, JP2016093483, JP2015504724, JP2015501188, JP2015501188, JP2013525019, JP2012504452, JP2010526643, JP2006021047, EP2146620, EP2146620, EP1949863, EP1929963, CN104758030, CN104023659, CN102946811, CN102946811, CN102940479, CN102940479, CN102641546, AU2014262200, AU2012329351, AU2011248672, AU2008362711,

Abstract:
Source: US2006264706A A surgical instrument includes a hollow member having a sidewall provided with a window and a closure member movably connected to the hollow member for alternately covering and uncovering the window. The hollow member has a first clamping surface along an edge of the window, while the closure member has a second clamping surface opposing the first clamping surface and disposable substantially adjacent thereto in a clamping or closure configuration of the instrument. The instrument additionally comprises a tissue occlusion component mounted to at least one of the hollow member and the closure member for acting on tissues gripped between the first clamping surface and the second clamping surface, to couple the tissues to each other.

0) US2014260928A – METHODS OF USING NON–CYLINDRICAL MANDRELS

18) Family number: 56024119 (US2014260928A) © PatBase

Title: METHODS OF USING NON–CYLINDRICAL MANDRELS

Priority:

US20130012161	20130828	US20130012348	20130828	US20130012481	20130828
US20130012862	20130828	US20130012474	20130828	US20130012866	20130828
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Family:

Publication number	Publication date	Application number	Application date
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WO14150288 A3	20141106	WO2014US22843	20140310	

Probable Assignee: INSERA THERAPEUTICS INC

Assignee(s):(std)**:** INSERA THERAPEUTICS INC

Assignee(s): JANARDHAN VALLABH ; JANARDHAN VIKRAM

Inventor(s):(std)**:** JANARDHAN VALLABH ; JANARDHAN VIKRAM

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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

International class (IPC 8–9): A61B17/00 A61B17/08 A61B17/12 A61B17/22 A61B17/221 A61B17/3205 A61B17/3207 A61B19/00 A61F2/00 A61F2/01 A61F2/06 A61F2/86 A61M A61M1/00 A61M25/00 A61M25/10 A61M29/00 A61M39/00 B23B47/18 B23K101/04 B23K26/00 B23K26/02 B23K26/06 B23K26/08 B23K26/10 B23K26/14 B23K26/16 B23K26/20 B23K26/38 B23K31/02 B23K37/047 B23P11/02 B23P13/04 B26F3/00 C22C1/00 D04C1/00 D04C1/06 D04C1/12 D04C3/40 E03B7/07 F27B9/06 F27D11/00 (Advanced/Invention);
A61B17/00 A61B17/22 A61B19/00 A61F2/01 B23K101/04 C22F1/00 D06F75/00 (Advanced/Non–invention);
A61M (Subclass/Invention)

CPC: Y10S623/92 Y10S623/921 A61B17/0057 A61B17/12118 A61B2017/12077 A61B2017/2217 A61F2/013 A61F2002/018 A61M29/00 A61B17/12163 A61B2017/00575 A61F2002/061 A61F2002/823 A61F2250/0023 A61F2210/0014 A61F2/07 A61B2017/00778 A61B2090/061 A61F2/01 A61B17/320725 A61F2/90 A61F2002/016 A61B17/12109 A61B17/12113 A61B17/12122 A61B17/12172 A61B17/22 A61B17/22031 A61B17/22032 A61B17/221 A61B17/32056 A61B17/3207 A61B90/39 A61B2017/00526 A61B2017/00592 A61B2017/00606 A61B2017/00641 A61B2017/22001 A61B2017/22002 A61B2017/22034 A61B2017/22035 A61B2017/22067 A61M1/0031 A61M1/008 A61M25/0023 A61M25/10 A61M2025/0042 A61M2202/06 A61M2207/10 A61M2210/12 B23K26/083 B23K26/14 B23K26/142 B23K26/1435 B23K26/146 B23K26/20 B23K26/38 B26F3/004 D04C1/06 D04C3/48 D10B2509/06 Y10T29/49913 Y10T29/49995 Y10T82/2521 Y10T137/8376 Y10T137/85954 Y10T156/10 A61F2002/011 D04C1/12 Y10T83/0596 Y10T156/1062 A61B2090/3966

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Abstract:
Source: US2014260928A Methods of forming a structure for treating a vessel include providing a mandrel and braiding a plurality of filaments around the mandrel. The mandrel may include a strand having a longitudinal axis and a plurality of balls coupled to the strand along the longitudinal axis. Pairs of the plurality of balls may be spaced along the longitudinal axis. Braiding the plurality of filaments around the mandrel may include, during braiding, forming a plurality of bulbs around the plurality of balls and forming necks between pairs of the plurality of balls. The methods may include, after braiding the plurality of filaments, heat treating (e.g., shape setting) the plurality of filaments on the mandrel. Portions of the braided plurality of filaments may be secured to the mandrel, for example using bangles, wire, and/or adhesive.

19) Family number: 41020919 (US2009182287A) © PatBase

Title: LOCALIZATION OF BODY LUMEN JUNCTIONS

Priority:

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Inventor(s): JOSE A NAVIA

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ET AL; LYON WILLIAM R

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 QA RO RS RU RW 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

International class (IPC 8–9): A47B21/00 A47B21/013 A47B83/00 A47B83/02 A47C1/00 A47C3/00 A47C7/00 A47C7/02 A47C7/36 A47C7/38 A47C7/50 A47C7/54 A47C7/62 A47C7/72 A61B1/00 A61B17/00 A61B17/03 A61B17/08 A61B17/30 A61B17/32 A61B17/34 A61B18/02 A61B18/04 A61B18/12 A61B18/14 A61B18/16 A61B18/18 A61B19/00 A61B5/00 A61B5/02 A61B5/024 A61B5/04 A61B5/042 A61B5/05 A61B5/053 A61F2/02 A61F2/24 A61M1/00 A61M1/10 A61M1/12 A61M25/00 A61M25/01 A61M25/04 A61M25/06 A61M25/08 A61M25/088 A61M25/09 A61M25/092 A61M25/10 A61M25/14 A61M27/00 A61M29/00 A61M29/02 A61M3/00 A61M31/00 A61M37/00 A61M5/00 A61M5/14 A61M5/178 A61M5/32 A61M5/46 A61N1/00 A61N1/05 A61N1/362 C12N15/87 C12N7/01 C12P21/00 C12Q1/68 F16M11/18 G06F1/16 (Advanced/Invention);
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Abstract:
Source: US2009182287A Devices, systems, and methods for the localization of body lumen junctions and other intraluminal structure are disclosed. Various embodiments permit clinicians to identify the locations of intraluminal structures and medical devices during non−surgical medical techniques, such as cardiac ablation, by determining the intralumen conductance and/or cross−sectional area at a plurality of locations within the body lumen.

0) US2005113853A – GUIDEWIRE FOR CROSSING OCCLUSIONS OR STENOSES

20) Family number: 31373665 (US2005113853A) © PatBase

Title: GUIDEWIRE FOR CROSSING OCCLUSIONS OR STENOSES

Priority:

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Family:

Publication number	Publication date	Application number	Application date
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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 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 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 YU ZA ZM ZW

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International class (IPC 1–7): A61B17/22 A61D1/02 A61M31/00

CPC: A61B17/22012 A61B17/32002 A61B2017/22094 A61M25/09 A61M25/09025 A61M2025/0042 A61M2025/0197 A61M2025/09175 A61M2025/09183 A61B17/50 A61B17/3421 A61B17/3207 A61B2017/22042 A61B2017/22077 A61B2017/003 A61B2017/22044 A61B2017/320004 A61B17/320725 A61B17/320783 A61B2017/320741 A61B17/320758 A61B2017/22069 A61B2017/320733

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Abstract:
Source: US2005113853A Systems and methods for crossing stenosis, partial occlusions, or complete occlusions within a body lumen. The systems generally include an elongate member such as a hollow guidewire that houses a rotatable and translatable drive shaft. The drive shaft typically has a distal portion that is advanced to create a path in the occlusive material that is large enough to allow the hollow guidewire to cross the occlusive material.

21) Family number: 32576106 (US2005244304A) © PatBase

Title: TAILORED AND UNIFORM COATINGS IN MICROCHANNEL APPARATUS

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Probable Assignee: VELOCYS

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NEAGLE ; RICHARD STEVENSON ; PAUL JAROSCH KAI TOD ; PATRICK FITZGERALD SEAN ; THOMAS YUSCHAK ; TERRY MAZANEC ; YONG WANG ; XIAOHONG LI ; RACHID TAHA ; YA HUEI CHIN ; SEAN P FITZGERALD ; TERRY MAZANECLI ; RICHARD LONG ; RAMIER JEFFREY J ; PERRY STEVEN J ; TONKOVICH ANNA LI ; VANG JONG ; UOTSON DZHANKO M ; REHMLER DZHEFFRI DZH ; TONKOVICH ANNA LII ; TAKHA RASHID ; SAO CHUN SHE ; CHUNSHE CAO

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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

International class (IPC 8–9): B01D3/00 B01D3/26 B01D37/00 B01D39/00 B01D5/00 B01D8/02 B01F13/00 B01F15/06 B01F3/04 B01F3/08 B01F5/04 B01F5/06 B01J10/00 B01J19/00 B01J19/02 B01J19/24 B01J21/04 B01J23/42 B01J23/44 B01J23/58 B01J23/62 B01J23/656 B01J32/00 B01J35/04 B01J37/02 B01J37/08 B01J8/00 B01J8/02 B01L3/00 B05D7/22 B32B37/00 B81B1/00 B81C3/00 B81C99/00 C01B3/26 C01B3/38 C01B31/18 C07B63/00 C07C1/02 C07C11/04 C07C13/18 C07C15/073 C07C15/46 C07C2/56 C07C2/58 C07C2/66 C07C2/70 C07C209/68 C07C29/80 C07C35/08 C07C37/14 C07C45/29 C07C45/38 C07C45/82 C07C49/403 C07C5/02 C07C5/333 C07C5/48 C07C7/04 C07C7/20 C07C9/12 C07C9/15 C10G47/00 C23C10/50 C23C16/00 C23C16/04 C23C16/12 C23C16/40 C23C16/56 C23C8/10 F15C1/06 F15D1/02 F16L41/00 F23C13/00 F25J3/00 F25J3/02 F25J3/04 F25J5/00 F28D1/047 F28D7/00 F28F1/10 F28F9/02 G05D7/00 (Advanced/Invention);
B01F17/00 B01F3/04 B01J10/00 B01J19/00 B01J20/00 B01J20/02 B01J20/06 B01J20/08 B01J29/40 B01J35/00 B01J35/02 B01J35/04 B01J35/06 B01J37/00 B01J37/02 B01J38/10 C07B61/00 F28F13/00 F28F3/04 H01M8/12 (Advanced/Non–invention);
B01D3/00 B01F13/00 B01F15/00 B01F3/04 B01F3/08 B01J10/00 B01J19/00 B01J21/00 B01J23/44 B01J23/54 B01J32/00 B01J35/00 B01J37/00 B01J8/02 B32B37/00 B81B1/00 B81C3/00 C01B3/00 C01B31/00 C07B63/00 C07C1/00 C07C11/00 C07C2/00 C07C45/00 C07C5/00 C07C7/00 C10G47/00 C23C16/00 C23C16/06 C23C16/56 C23C8/10 F15D1/00 F16L41/00 F23C13/00 F25J3/00 F25J3/02 F25J3/04 F25J5/00 F28D7/00 G05D7/00 (Core/Invention);
B01F17/00 C07B61/00 H01M8/12 (Core/Non–invention);
B01F B01J (Subclass/Invention)

International class (IPC 1–7): B01J10/00 B01J19/00 B01J35/04 B01J37/02 B01L3/00 B81B7/00 B81C5/00 C07C5/333 C23C10/50 C23C16/00 C23C16/04

CPC: B01F5/0057 B01F3/0815 B01F5/0485 B01F7/00758 B01F2005/0623 B01F2015/062 B01J2219/00756 F28D7/0008 B01D1/14 B01D19/0031 B01F3/04468 Y10S62/902 Y10S585/92 Y10S585/924 C07C7/04 F25J5/007 B01J2219/0236 C23C8/10 C23C16/12 C23C16/56 H01M2008/1293 F25J3/0209 B01D3/146 F25J3/0219 F25J3/0233 F25J3/0238 F25J3/0242 F25J3/0247 F25J3/0295 F25J3/04624 F25J3/04896 F25J3/04975 F25J2200/80 F25J2200/90 F25J2210/12 F25J2215/62 F25J2270/90 F25J2290/20 F25J2290/44 B01F5/0647 B01J2219/00869 F28F9/0275 F25J2290/42 Y10T156/1093 B01F5/0611 B01F2005/0621 B01F2005/0636 B01J23/464

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European class: B01D1/14 B01D19/00F B01D3/14B2 B01F13/00M B01F3/04C4 B01F3/04C4B B01F3/08C B01F3/08C3 B01F5/00B B01F5/04C14C B01F5/04C14C10 B01F5/06B3B B01F5/06B3B1 B01F5/06B3F B01F5/06B3F16 B01F5/06B3F2 B01F7/00G1 B01F7/00G4 B01J19/00R B01J23/34 B01J23/42 B01J23/62H4 B01J23/63 B01J23/656H B01J23/68R B01J35/04 B01J35/10 B01J37/02B B01J37/02C B01J37/02C2 B01J37/02C8 B01J37/02C8B B01J37/02G B01L3/00C6M12 B01L3/00C6M2 B01L3/5027A B01L3/5027F C01B3/38A C01B3/38B C01B3/38D C01B3/40 C01B31/18 C07B61/00 C07C2/66 C07C2/70 C07C209/68 C07C37/16 C07C39/16 C07C5/333D2 C10G45/00 C10G47/00 C11C3/12M C23C16/12 C23C16/56 C23C8/10 F23C13/00 F25J3/02A2 F25J3/02A4 F25J3/02C2 F25J3/02C4 F25J3/02C6 F25J3/02C8 F25J3/02Z F25J3/04 F25J3/04L F25J3/04Z4C F25J3/04Z4U F25J5/00B F28D7/00B F28F9/02S6C L01F15/06B L01F5/06B3B20B L01F5/06B3B20B4 L01F5/06B3B40B L01J21/18 L01J219/00C10F L01J219/00R10F2 L01J219/00R10H L01J219/00R10J L01J219/00R12 L01J219/00R14 L01J219/00R16 L01J219/00R18 L01J219/00R18J L01J219/00R2 L01J219/00R22B2B L01J219/00R22B2F L01J219/00R22D L01J219/00R26B L01J219/00R4 L01J219/00R8B L01J219/00R8D L01J219/00R8D2 L01J219/00R8D4 L01J219/00R8F L01J219/00R8P L01J219/00R8R L01J219/00R8S L01J219/00R8T L01J219/02B10 L01J23/44 L01J23/46D L01J29/40 L01J35/00B L01J35/04 L01J35/06 L01J35/10A4 L01J37/02C8 L01J37/02C8B L01J38/10 L01L200/12 L01L3/5027 L01L300/16 L01L400/04F2 L01L400/08P2 L01L400/08P4 M01B203/02B4B M01B203/02B4F M01B203/02D4 M01B203/08B2 M01B203/08B2D M01B203/08B2F M01B203/08B4B M01B203/10B2 M01B203/10B4 M01B203/10B6 M01B203/10B8 M01B203/10D M01B203/10D2D2 M01B203/10D8 M01B203/12B2B M01B203/12B2D M01B203/12B2D2 M01B203/14B M01B203/14D2 M01B203/16F M01B203/82 M07C523/62 M07C529/40 R23C900/03001 R25J200/80 R25J200/90 R25J210/12 R25J215/62 R25J270/90 R25J290/20 R25J290/42 R25J290/44 R28F13/00B R28F260/02 R28F3/04C T01M8/12Y

US class: 1/1 137/1 137/1P 137/340 137/561.00A 137/561.00AP 137/561.00AS 137/561A 137/833 156/300 165/104.21 165/153 165/174 208/107 210/490 210/500.25 210/511 210/634 210/767 252/373 261/127 261/127P 366/144 366/144P 366/341 366/341S 422/100 422/100P 422/129 422/130 422/188 422/188P 422/188S 422/190 422/190S 422/198 422/198S 422/200 422/200S 422/211 422/211S 422/241 422/400 422/400P 422/600 422/600P 422/600S 422/603 423/418.2 423/418.200P 423/651 423/651P 423/652 423/652P 427/232 427/239 427/255.19 427/255.190S 427/255.23 427/255.230S 502/355 502/355S 516/9 516/9S 55/523 55/524 568/474 568/487 568/487P 585/250 585/263 585/275 585/277 585/402 585/443 585/634 585/636 585/654 585/654S 585/656 585/658 585/658P 585/660 585/709 585/709P 585/920 585/924 585/925 62/617 62/617P 62/623 62/643 62/902 62/902S 62/903 62/903S

Classification Explorer

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Abstract:
Source: US2005244304A Interior microchannels within microchannel apparatus are uniformly coated. Remarkably, these uniform coatings are formed from materials that are applied to the interior microchannels after an apparatus has been assembled or manufactured. Coatings can be made uniform along the length of a microchannel, in the corner of a microchannel, and/or throughout numerous microchannels in an array of microchannels. Techniques for tailoring the application of washcoats onto microchannels is also described.

0) US2010318178A – METHOD AND APPARATUS FOR ALLOWING BLOOD FLOW TH...

22) Family number: 47851963 (US2010318178A) © PatBase

Title: METHOD AND APPARATUS FOR ALLOWING BLOOD FLOW THROUGH AN OCCLUDED VESSEL

Priority: US20090186942P 20090615 US20100378053 20100615 US20100815428 20100615 WO2010IL00470 20100615 US20160297214 20161019 US20110378053 20111214

Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: PERFLOW MEDICAL LTD

Assignee(s):(std)**:** CIBULSKI GILAD ; PERFLOW MEDICAL LTD ; RAPAPORT AVRAHAM

Inventor(s):(std)**:** CIBULSKI GILAD ; RAPAPORT AVRAHAM

Agent(s): GREENWOOD JOHN DAVID; SIMON KAHN PYI TECH LTD C O LANDONIP INC; KAHN SIMON

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 TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9)**:** A61B17/221 A61B17/3207 A61B90/00 A61F2/06 A61F2/82 A61F2/84 A61F2/86 A61M29/00 A61M29/02 (Advanced/Invention); A61B17/00 A61B17/22 A61B17/221 A61F2/01 A61F2/88 (Advanced/Non–invention)

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Abstract:
Source: US2010318178A A device arranged to sustain and/or provide at least partial patency of a small blood vessel exhibiting an occlusion, the device constituted of a tubular body expandable from a first small diameter state for manipulation to, and through, the occlusion of the small blood vessel and a second large diameter state, the inner dimensions of the second large diameter state being no more than 50 percent of the diameter of the small blood vessel at the occlusion location, the device presenting a conduit for blood flow through the occlusion when in the large diameter state. In one embodiment the small blood vessel is an intracranial blood vessel.

0) US2002123759A – INTRAVASCULAS OCCLUSION DEVICES

23) Family number: 28307405 (US2002123759A) © PatBase

Title: INTRAVASCULAS OCCLUSION DEVICES

Priority:

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Probable Assignee: AGA MEDICAL CORP

Assignee(s):(std)**:** AMPLATZ CURTIS ; AGA MEDICAL CORP

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Designated states: AM AT AU AZ BE BY CA CH CN CY DE DK ES FI FR GB GR IE IT JP KG KP KR KZ LI LU MC MD NL PT RU SE TJ TM

International class (IPC 8–9): A61B17/00 A61B17/08 A61B17/12 A61F2/00 A61F2/01 A61F2/02 A61F2/06 A61F2/84 A61F2/90 A61M25/00 B21F45/00 C22F1/00 (Advanced/Invention); A61B17/12 A61F2/00 A61F2/06 A61F2/84 A61F2/90 A61M25/00 (Advanced/Non–invention); A61B17/00 A61B17/12 A61F2/01 A61F2/06 A61F2/82 B21F45/00 (Core/Invention); A61F2/00 (Core/Non–invention)

International class (IPC 1–7): A61B17/00 A61B17/08 A61B17/12 A61B18/00 A61D1/00 A61F2/01 A61F2/06 A61M25/00 A61M29/00 B21F45/00 C22F1/00

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European class: A61B17/00P A61B17/12P A61B17/12P5B A61B17/12P5H A61B17/12P7C3 A61B17/12P7W1 A61B17/12P7W3 A61F2/01 A61F2/90 B21F45/00 B21F45/00M K61B17/00M K61B17/00P5 K61B17/00P5E K61B17/00P5H K61B17/00P5K K61F2/01M K61F2/30A1W20B K61F2/90 K61F2/95 K61F210/00D2 K61F240/00M

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Abstract:
Source: US2002123759A The present invention provides a method of forming a medical device and medical devices which can be formed in accordance with the method. In one embodiment, the method includes the steps of a) providing a metal fabric formed of a plurality of strands formed of a metal which can be heat treated to substantially set a desired shape; b) deforming the metal fabric to generally conform to a surface of a molding element; c) heat treating the metal fabric in contact with the surface of the molding element to substantially set the shape of the fabric in its deformed state; and d) removing the metal fabric from contact with the molding element. The resulting metal fabric will define a medical device which can be collapsed for passage through a catheter or the like for deployment in a channel of a patient's body. Medical devices made in accordance with this method can have varying structures.

24) Family number: 34394230 (US2007088380A) © PatBase

Title: BALLOON CATHETER SYSTEM FOR TREATING VASCULAR OCCLUSIONS

Priority:

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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 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 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

International class (IPC 8–9): A61B17/22 A61F2/958 A61M25/00 A61M25/01 A61M25/10 A61M25/14 A61M29/00 A61M29/02 A61M31/00 (Advanced/Invention); A61M25/01 (Advanced/Non–invention)

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Abstract:
Source: US2007088380A The present invention provides a balloon catheter comprising: a hollow inner shaft disposed within a hollow outer shaft; a balloon attached at its proximal end to said outer shaft and at its distal end to said inner shaft; wherein the inner shaft is constructed such that following radial expansion of the balloon to a first expanded state, said inner shaft is capable of responding to further longitudinal expansion of the balloon to a second expanded state by increasing its length from a resting value, and of responding to subsequent partial deflation back to said first expanded state by reducing its length back to said resting value.

25) Family number: 35577561 (US2007208368A) © PatBase

Title: RECANALIZING OCCLUDED VESSELS USING CONTROLLED ANTEGRADE AND RETROGRADE TRACKING

Priority: EP20070750537 20070212 US20060773357P 20060213 US20070706041 20070212 US20080150111 20080423 US20060817603P 20060628 US20110037304 20110228 WO2007US03706 20070212 WO2009US41287 20090421 US20150803381 20150720

Family:

Publication number	Publication date	Application number	Application date
AU2007215224 AA	20070823	AU20070215224	20070212
AU2007215224 BB	20110512	AU20070215224	20070212
AU2009239406 AA	20091029	AU20090239406	20090421
CA2641729 AA	20080807	CA20072641729	20070212
CA2641729 C	20140520	CA20072641729	20070212
CA2722486 AA	20101025	CA20092722486	20090421
DE602007046271 D1	20160623	DE200760046271T	20070212
EP1984062 A2	20081029	EP20070750537	20070212
EP1984062 A4	20130522	EP20070750537	20070212
EP1984062 B1	20160511	EP20070750537	20070212
EP2271268 A1	20110112	EP20090734649	20090421
EP2271268 A4	20110330	EP20090734649	20090421
EP3075332 A1	20161005	EP20160165514	20070212
JP2009526570 T2	20090723	JP20080554416T	20070212
JP2011518615 T2	20110630	JP20110506400T	20090421
JP4932854 B2	20120516	JP20080554416T	20070212
KR101074876 B1	20111019	KR20087022167	20070212
KR20090003212 A	20090109	KR20087022167	20070212
KR20110010614 A	20110201	KR20107026030	20090421
US2007208368 AA	20070906	US20070706041	20070212
US2008306499 AA	20081211	US20080150111	20080423
US2011166591 AA	20110707	US20110037304	20110228
US2016038164 AA	20160211	US20150803381	20150720
US7918859 BB	20110405	US20070706041	20070212
US9119651 BB	20150901	US20080150111	20080423
WO07095191 A2	20070823	WO2007US03706	20070212
WO07095191 A3	20081120	WO2007US03706	20070212
WO09132027 A1	20091029	WO2009US41287	20090421

Probable Assignee: RETRO VASCULAR INC

Assignee(s):(std)**:** KATOH OSAMU ; OGATA WAYNE ; RETRO VASCULAR INC ; RETROVASCULAR INC

Assignee(s): RETROVASCULAR INC PLEASANTON

Inventor(s):(std)**:** OGATA WAYNE ; KATOH OSAMU

Inventor(s): KATOH OSAMU CHIKUSA KU ; OGATA WAYNE SAN RAMON ; OSAMU KATOH ; WAYNE OGATA

Agent(s): GRIFFITH HACK; FASKEN MARTINEAU DUMOULIN LLP; INGALLS DORAN J; PARLEE MCLAWS LLP; BETTEN AND RESCH PATENT U RECHTSANWAELTE PARTGMBB; ILGART JEAN CHRISTOPHE; BREVALEX; THELEN REID BROWN RAYSMAN AND STEINER LLP; THELEN LLP; NIXON PEABODY LLP; LECLAIRRYAN A PROFESSIONAL CORP; KREBS ROBERT 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 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 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

International class (IPC 8–9): A61B17/00 A61B17/02 A61B17/22 A61B17/221 A61B17/24 A61B17/3207 A61B18/00 A61B18/12 A61F2/82 A61M25/00 A61M25/01 A61M25/08 A61M25/09 A61M25/14 A61M29/00 A61M29/02 (Advanced/Invention); A61B17/00 A61B19/00 A61M25/00 A61M25/08 A61M25/09 A61M25/098 A61M25/14 A61M29/00 (Advanced/Non–invention); A61B17/00 A61B17/02 A61B17/22 A61F2/82 A61M25/08 A61M25/09 A61M25/14 A61M29/00 A61M29/02 (Core/Invention)

CPC: A61B2017/00685 A61B2017/22084 A61M25/09 A61M2025/0096 A61M2025/09091 A61M2025/09183 A61B90/39 A61M29/02 A61B17/320725 A61B17/32075 A61B2017/00876 A61B2017/22035 A61B2017/22044 A61B2017/22049 A61B2017/22061 A61B2017/22094 A61B2017/2212 A61B17/320758 A61B2017/22001 A61B2017/22038 A61B2017/22079 A61B2017/22081 A61B17/221 A61B17/22 A61B17/22031

European class: A61B17/22 A61B17/221 A61B17/3207E A61B17/3207P A61M25/09 A61M29/02 K61B17/00Q2 K61B17/00S14 K61B17/221C K61B17/22E K61B17/22E8 K61B17/22G3P K61B17/22G8 K61B17/22H5 K61B17/22S2 K61B17/22T K61B19/54 K61M25/00T40L K61M25/09E3A K61M25/09T1

US class: 1/1 606/113 606/159 606/159P 606/198 606/198P

Classification Explorer

Cited documents: WO9819629 A2, WO9214508 A1, WO09042614 A1, WO0139673 A1, WO0009020 A1, US7918859 BB, US7037316 BB, US6936056 BB, US6911026 BA, US6697863 BA, US6454775 BA, US6454775, US6416523 BA, US6235044 BA, US6068648 A, US6068645 A, US6019736 A, US5895398 A, US5833631 A, US5695517 A, US5624430 A, US5551443 A, US5514128 A, US5501694 A, US5419767 A, US5366443 A, US5041109 A, US4621636 A, US3868956 A, US2010292685 AA, US2010256616 AA, US2008306499 AA, US2008039935 AA, US2007208368 AA, US2007112342 AA, US2007083132 AA, US2007049867 AA, US2007043389 AA, US2006224112 AA, US2006079880 AA, US2006047286 AA, US2005251134 AA, US2005228431 AA, US2005171478 AA, US2005154400 AA, US2005015440 AA, US2004230219 AA, US2004082962 AA, US2004082879 AA, US2003028200 AA, US2002123698 AA, US2002068954 AA, US2002058939 AA, US2001020172 AA, JP2007195599 A2, JP2006263125 A2, JP2004500171 T2,

Forward Citations: WO14145903, WO13173566, WO13108192, WO13013248, WO13013248, WO13003191, WO12141749, WO12137139, WO12037341, WO11148626, WO11129915, WO11129915, WO11123834, WO11094767, WO11094767, WO11028665, WO09132027, US9668766, US9655635, US9636205, US9622771, US9615849, US9597481, US9592068, US9579494, US9579489, US9579200, US9566144, US9561073, US9532798, US9504599, US9492264, US9486239, US9474642, US9456842, US9415242, US9408998, US9402981, US9364255, US9345565, US9326843, US9314324, US9283034, US9282991, US9271787, US9259306, US9242080, US9204893, US9192566, US9179995, US9179931, US9174032, US9162038, US9119651, US9107590, US9095370, US9055997, US9044568, US9034007, US9017364, US8998936, US8974489, US8956376, US8932321, US8932320, US8920449, US8911435, US8910555, US8904914, US8895891, US8882797, US8876796, US8872068, US8870910, US8870901, US8869670, US8866049, US8863631, US8859934, US8852227, US8852166, US8845679, US8845678, US8828045, US8816247, US8813625, US8803030, US8795330, US8790365, US8789452, US8784446, US8783151, US8764700, US8753371, US8747432, US8740835, US8735777, US8733618, US8728117, US8728116, US8721677, US8721676, US8715317, US8715316, US8715315, US8715314, US8702736, US8702680, US8696612, US8690907, US8690818, US8685050, US8685049, US8679150, US8545418, US8540695, US7918859, US2017000519, US2015257824, US2014316428, US2013331735, US2013131641, US2013116715, US2013006282, US2012203322, US2011166591, US2011144538, US2011054503, US2010292685, US2010256616, US2010094258, US2009125045, US2009093840, US2008306499, US2007208368, KR20130041800, KR101671333, KR101613268, JP5917487, JP2015510779, JP2014208263, JP2013523285, JP2012515620, JP2011518615, JP2011244927, JP2010540099, ITMI20120047, FR3018195, EP2949358, EP2849834, EP2694149, EP2575632, EP2575632, EP2332608, EP2174685, CN103796706, CN103037795, AU2012275754,

Abstract:
Source: US2007208368A A method and systems for treating chronic total occlusions, particularly those that are

difficult to treat, is disclosed. In this approach, recanalizing the CTO is achieved using a combined antegrade and retrograde approach. The proximal end of the occlusion is penetrated using an antegrade wire, using a traditional approach. Using collateral vessels, the distal end of the occlusion is crossed in a retrograde fashion and by appropriately maneuvering each member, a continuous channel is created. Additional elements such as capture devices, dilators and injection catheters are also disclosed.

0) US2008047563A – INTRAUTERINE FALLOPIAN TUBE OCCLUSION DEVICE

26) Family number: 33276956 (US2008047563A) © PatBase

Title: INTRAUTERINE FALLOPIAN TUBE OCCLUSION DEVICE

Priority:
EP20120154156 20120207 US20050653743P 20050215 US20060884027 20060215
US20070884027 20070809 US20100856876 20100816 US20110294091 20111110
US20120449753 20120418 US20080006454P 20080115 US20090353770 20090114
US20070892560 20070823 US20140458525 20140813 US20130949621 20130724
WO2006US05245 20060215 WO2009US00241 20090115 WO2011US46921 20110808
US20150861300 20150922

Family:

Publication number	Publication date	Application number	Application date
AU2006214368 AA	20060824	AU20060214368	20060215
AU2006214368 BB	20110526	AU20060214368	20060215
AU2011293778 AA	20120301	AU20110293778	20110808
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EP1848386 A4	20131113	EP20060720757	20060215
EP2605735 A1	20130626	EP20110820353	20110808
EP2605735 A4	20140507	EP20110820353	20110808
IL185283 A0	20080209	IL20060185283	20060215
IL207002 A0	20101230	IL20090207002	20090115
IL207002 A1	20160421	IL20090207002	20090115
JP2008529730 T2	20080807	JP20070556250T	20060215
MX2007009376 A1	20080306	MX20070009376	20060215
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US2015068532 AA	20150312	US20140458525	20140813
US2016058608 AA	20160303	US20150861300	20150922
US7621276 BB	20091124	US20070892560	20070823
US7669601 BB	20100302	US20060884027	20060215
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US9016280 BB	20150428	US20120449753	20120418
US9180039 BB	20151110	US20110294091	20111110
US9492311 BB	20161115	US20140458525	20140813

US9510088 BB	20161129	US20130949621	20130724	
WO06088909 A2	20060824	WO2006US05245	20060215	
WO06088909 A3	20070726	WO2006US05245	20060215	
WO09091560 A1	20090723	WO2009US00241	20090115	
WO12027090 A1	20120301	WO2011US46921	20110808	
WO12027090 A4	20120621	WO2011US46921	20110808	

Probable Assignee: CONTRAMED LLC

Assignee(s):(std)**:** UNIV YALE ; TAL MICHAEL G ; SHIKHMAN OLEG ; MICHAEL G TAL ; PATRIZIO PASQUALE ; PATRICK N GUTELIUS ; MARK J DEBISSCHOP ; OLEG SHIKHMAN ; TRACY DENNIS A ; CONTRAMED LLC ; DEBISSCHOP MARK J ; GUTELIUS PATRICK N ; KATZ BOB H ; SHIKMAN OLEG

Assignee(s): YALE UNIVERSITY ; CANTRAMED LLC ; YALE UNIV ; TRACY DENNIS CULVER

Inventor(s):(std)**:** GUTELIUS PATRICK N ; KATZ BOB H ; PATRIZIO PASQUALE ; SHIKHMAN OLEG ; SHIKMAN OLEG ; DEBISSCHOP MARK J ; TAL MICHAEL G ; TRACY DENNIS A

Inventor(s): TRACY DENNIS CULVER ; GUTELIUS PATRICK ; DEBISSCHOP MARK ; TAL MICHAEL ; MARK J DEBISSCHOP ; MICHAEL G TAL ; OLEG SHIKHMAN ; PATRICK N GUTELIUS

Agent(s): PHILLIPS ORMONDE FITZPATRICK; CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD; MOFFAT AND CO; HALEY STEPHEN; GE EHRLICH 1995 LTD; WELSH AND FLAXMAN LLC; WELSH FLAXMAN AND GITLER LLC; FLAXMAN HOWARD N; FLAXMAN HOWARD N 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 QA RO RS RU 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 YU ZA ZM ZW

International class (IPC 8–9): A61F A61F6/06 A61F6/12 A61F6/14 A61F6/18 A61F6/20 A61F6/22 B60R11/02 H04R1/02 H04R1/24 H04R1/32 H04R5/02 (Advanced/Invention);
A61F6/00 (Core/Invention);
A61F (Subclass/Invention)

CPC: A61F6/144 A61F6/225 H04R1/323 B60R11/0217 H04R1/026 H04R1/24 H04R5/02 H04R2499/13 A61F6/142 A61F6/18 A61F6/20

European class: A61F6/14B A61F6/18 A61F6/20

US class: 1/1 128/830 128/831 128/833 128/839 128/839S 128/840 128/840S

Classification Explorer

Cited documents: WO9001310 A1, WO06088909 A2, US9016280 BB, US8662081 BB, US8181653 BB, US7669601 BB, US7621276 BB, US6705323 BA, US6346102 BA, US6042030 A, US5935137 A, US5555896 A, US5146931 A, US5095917 A, US4932421 A, US4628924 A, US4612924 A, US4537186 A, US4353363 A, US4117839 A, US4034749 A, US3918443 A, US3881475 A, US3845761 A, US3811435 A, US3805767 A, US3789838 A, US3716052 A, US3704704 A, US3687129 A, US3683906 A, US3683905 A, US3678927 A, US3659596 A, US3620212 A, US3507274 A, US3405711 A, US3391844 A, US3374788 A, US2009178682 AA, US2008302368 AA, US2008302268 AA, US2008264423 AA, US2005192616 AA, US2005171569 AA, US2005125022 AA, US2004009205 AA, US2003066533 AA, US2002198547 AA, US2001016738 AA, JPS6142914, JPS59214444, JP61042914 A2, JP59214444 A2, JP590214444, JP59021444 A2, IT1053357 A, FR2538243 A1, EP0208653 A1, EP0114440 A2, EP0070068 A2, EP0011143 B1, EP0011143 A1, DE4412311 A1, CH688984,

Forward Citations: WO16032406, WO15057291, WO14028499, WO14028499, WO12134648, WO12027090, WO11115753, WO11115753, WO09091560, US9662117, US9655557, US9636116, US9610191, US9526649, US9517159, US9510088, US9492312, US9492311, US9451965, US9427351, US9370656, US9265652, US9247942, US9180040, US9180039, US9149277, US9107669, US9095344, US9089418, US9072907, US9060771, US9017351, US9016280, US8992409, US8984733, US8961448, US8875712, US8874215, US8795153, US8764627, US8734318, US8701670, US8696745, US8696543, US8678997, US8662081, US8636809, US8602966, US8600510, US8556796, US8545384, US8509894, US8356600, US8322341, US8313423, US8290594, US8287444, US8181657, US8181653, US7772244, US7621276, US2015157836, US2014048074, US2014048073, US2013306079,

US2013158428, US2012216816, US2011230907, US2011230829, US2011224787, US2011202131, US2011202041, US2011196485, US2011108039, US2011087337, US2011066254, US2011015473, US2010331616, US2010312164, US2010300452, US2010275925, US2010145139, US2010059062, US2009254106, US2009240100, US2009082622, US2009054725, US2009018388, US2008275296, US2007015959, EP3057547, EP2884951, EP2605735, EP2605735, AU2011293778, AU2011293778,

Abstract:
Source: US2008047563A An occlusion device for actively occluding orifices of fallopian tubes includes a resilient body having an elongated member with a first end and a second end. The elongated member further includes a first leg ending with the first end of the elongated member, a second leg ending with the second end of the elongated member and a connection member positioned therebetween. A first orifice plug is secured at the first end of the elongated member and a second orifice plug is secured at the second end of the elongated member. The first and second orifice plugs are shaped and dimensioned to seat at the orifices of the fallopian tubes or within the fallopian tubes as the elongated member spreads outwardly with the first end and second end moving apart. A delivery device for delivery of medication or therapeutic agents to a uterine cavity is also disclosed.

27) Family number: 28162066 (US2002010418A) © PatBase

Title: METHODS AND APPARATUS FOR SCLEROSING THE WALL OF A VARICOSE VEIN

Priority:

US20000219931P	20000721	US20000221469P	20000726	US20000225172P	20000814
US20010898867	20010703	US20030358523	20030205	US20050644265P	20050114
US20060813164	20060113	US20060381372	20060503	US20060381370	20060503
US20070624412	20070118	US20030621943	20030717	US20040922221	20040819
US20040922123	20040819	US20050544082	20050728	US20040544082	20040204
WO2004US03249	20040224	WO2006US01458	20060113	WO2002US21132	20020703
WO2005US26147	20050725	WO2004US03249	20040204		

Family:

Publication number	Publication date	Application number	Application date
AU2002316536 AA	20030121	AU20020316536	20020703
AU2004211910 AA	20040826	AU20040211910	20040204
AU2005277797 AA	20060302	AU20050277797	20050725
BRPI0514535 A	20080617	BR2005PI14535	20050725
CA2452369 AA	20040105	CA20022452369	20020703
CA2513697 AA	20050719	CA20042513697	20040204
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EP1409063 A1	20040421	EP20020746849	20020703
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EP1605861 A2	20051221	EP20040708212	20040204
EP1781354 A1	20070509	EP20050781060	20050725
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EP1835958 A1	20070926	EP20060718520	20060113
JP2004533893 T2	20041111	JP20030510096T	20020703
JP2006523471 T2	20061019	JP20060503331T	20040204
JP2008509781 T2	20080403	JP20070527833T	20050725
MX2007001987 A1	20070716	MX20070001987	20050725
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US2004015159 AA	20040122	US20030621943	20030717
US2005107738 AA	20050519	US20040922221	20040819
US2005113798 AA	20050526	US20040922123	20040819
US2006149218 AA	20060706	US20040544082	20040204
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US2007135791 AA	20070614	US20070624412	20070118
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US7985200 BB	20110726	US20060381372	20060503
WO03004087 A1	20030116	WO2002US21132	20020703
WO04071612 A2	20040826	WO2004US03249	20040204
WO04071612 A3	20060803	WO2004US03249	20040204
WO06023203 A1	20060302	WO2005US26147	20050725
WO06076699 A1	20060720	WO2006US01458	20060113

Probable Assignee: LARY RESEARCH AND DEVELOPMENT LLC

Assignee(s):(std)**:** BALES THOMAS O ; ESPINOSA ALEJANDRO ; GOTTLIEB SAUL ; JAHRMARKT SCOTT L ; KRATSCH PETER K ; LARY BANNING G ; LARY RES AND DEV LLC ; NAGLREITER BRETT E ; SYNTHEON LLC ; VEIN RX INC ; SLATER CHARLES R ;

SMITH SCOTT T ; PINCHUK LEONARD

Assignee(s): VEIN RX LLC ; SAPHENX LLC ; VEINRX INC ; LARY RESEARCH AND DEVELOPMENT LLC

Inventor(s):(std)**:** BANNING G LARY ; BRETT E NAGLREITER ; CHARLES R SLATER ; ESPINOSA ALEJANDRO ; GALLAGHER THOMAS A ; GOTTIEB SAUL ; KRATSCH PETER K ; LARY BANNING G ; SCOTT L JAHRMARKT ; SLATER CHARLES R ; SMITH KEVIN W ; SMITH SCOTT T ; TERMIN CHARLES S ; THOMAS O BALES ; PINCHUK LEONARD ; NAGLREITER BRETT E ; JAHRMARKT SCOTT L ; GOTTLIEB SAUL ; BALES THOMAS O

Inventor(s): BALES THOMAS ; JAHRMARKT SCOTT ; NAGLREITER BRETT ; LARY BANNING ; SLATER CHARLES

Agent(s): HALFORDS IP; PIZZEYS PATENT AND TRADE MARK ATTORNEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; SMART AND BIGGAR; KNOBBE MARTENS OLSON AND BEAR LLP; GORDON AND JACOBSON PC

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

International class (IPC 8–9): A61B17/22 A61F2/00 A61F2/958 A61M25/00 A61M25/10 A61M29/00 A61M31/00 A61M39/00 A61M5/00 A61M5/145 A61M5/168 (Advanced/Invention); A61M25/00 A61M29/00 A61M31/00 A61M5/00 (Core/Invention)

International class (IPC 1–7): A61B17/22 A61B18/18 A61B18/20 A61F2/00 A61M25/00 A61M25/10 A61M29/00 A61M31/00 A61M5/00 A71F

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Classification Explorer

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Abstract:
Source: US2002010418A A preferred apparatus for delivering an intravascular drug such as a sclerosing agent (or a microfoam sclerosing agent) to a varicose vein includes a catheter having three concentric tubes. The innermost tube has a guide wire lumen and an inflation lumen. The distal end of the innermost tube has an integral inflatable occlusion balloon in fluid communication with the inflation lumen. The intermediate tube has a lumen through which the innermost tube extends. The distal end of the intermediate tube has a self−expanding balloon with a plurality of fluid pores in fluid communication with the intermediate tube lumen. The outer tube has a lumen through which the intermediate tube extends. Sclerosing agent is dispensed through the intermediate tube to pores located at the distal end of the intermediate tube or in the self−expanding balloon. Veins are sclerosed as the self−expanding balloon is pulled through and ultimately out of the vein.

0) US2002045855A – ROTATE TO ADVANCE CATHETERIZATION SYSTEM

28) Family number: 28183675 (US2002045855A) © PatBase

Title: ROTATE TO ADVANCE CATHETERIZATION SYSTEM

Priority:

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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 QA RO RS RU RW 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 YU ZA ZM ZW

International class (IPC 8–9): A61B1/00 A61B1/005 A61B1/008 A61B1/01 A61B1/018 A61B1/04 A61B1/05 A61B1/06 A61B1/07 A61B1/12 A61B1/273 A61B1/307 A61B1/31 A61B1/313 A61B1/32 A61B17/00 A61B17/22 A61B17/94 A61B19/00 A61F2/00 A61F2/04 A61F2/06 A61F2/84 A61F2/94 A61F2/95 A61F7/12 A61M1/00 A61M25/00 A61M25/01 A61M25/06 A61M25/08 A61M25/092 A61M25/10 A61M25/14 A61M27/00 A61M29/00 A61M29/02 A61M31/00 A61M36/04 A61M39/00 A61M39/10 A61M5/00 A61M5/178 G02B23/24 (Advanced/Invention); A61B1/00 A61B1/015 A61B1/04 A61B1/273 A61B1/307 A61B17/00 A61B17/12 A61B17/34 A61B19/00 A61F2/95 A61M25/00 A61M25/01 A61M25/04 A61M25/08 A61M25/10 (Advanced/Non–invention); A61B1/00 A61B1/005 A61F2/82 A61M25/00 A61M27/00 A61M5/00 (Core/Invention)

International class (IPC 1–7): A61B1/00 A61B3/00 A61M1/00 A61M25/00 A61M29/00 A61M5/00 A61M5/178

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European class: A61B1/005 A61B1/005B A61B1/005B6 A61B1/00E4 A61B1/00E4H A61B1/00E4H1 A61B1/00E4H6 A61B1/00H2 A61B1/00H4 A61B1/00P A61B1/00P2 A61B1/00P3 A61B1/00P4 A61B1/00P6 A61B1/01 A61B1/04 A61B1/307 A61B1/31 A61B17/12P A61B17/12P5 A61B17/12P5B A61B17/12P7B A61B17/12P7P A61F2/00B2 A61F2/06S10 A61F2/88 A61F2/94 A61M25/00H A61M25/00R A61M25/00R1M A61M25/00S A61M25/00T10 A61M25/01 A61M25/01C A61M25/01C3 A61M25/04 A61M25/10A A61M27/00C3 A61M29/02 K61B1/00 K61B1/005B6 K61B1/00E4H1 K61B1/00J K61B1/015 K61B1/018 K61B1/04D K61B1/05 K61B1/12E K61B1/273 K61B1/273D K61B1/307 K61B17/00Q2 K61B17/00R9 K61B17/12P2 K61B17/34R2D K61B19/02P33 K61B19/52D K61F2/88 K61F2/95T K61M210/10H10 K61M210/10H8 K61M210/10K K61M210/10K6 K61M25/00H K61M25/00R1A K61M25/00S K61M25/00S2B K61M25/00S8 K61M25/00T10C K61M25/00T20A K61M25/00T20A1 K61M25/01 K61M25/01A K61M25/01C K61M25/01C1 K61M25/01C3 K61M25/01S K61M25/04 K61M25/10 K61M25/10Z19 K61M27/00C3

US class: 1/1 128/349 600/100 600/101 600/101P 600/101S 600/103 600/104 600/105 600/106 600/109 600/110 600/112 600/114 600/114P 600/114S 600/115 600/115P 600/116 600/118 600/129 600/137 600/137P 600/139 600/146 600/156 600/156S 600/3 600/3P 604/103.01 604/103.08 604/103.080S 604/103.09 604/109 604/109P 604/114 604/159 604/164.01 604/164.010S 604/164.07 604/165.01 604/165.04 604/180 604/200 604/22 604/264 604/280 604/346 604/349 604/41 604/43 604/45 604/50 604/508 604/510 604/523 604/526 604/526S 604/528 604/528P 604/528S 604/540 604/540P 604/544 604/544P 604/544S 604/93.01 604/93.010P 604/95 604/95.01 604/96.01 604/96.010S 606/108 606/108S 606/127 606/127S 606/159 606/191 606/191S 623/1.1 623/1.100S 623/23.7 623/23.700P 623/23.700S

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Abstract:
Source: US2002045855A A system of rotate−to−advance medical devices including catheters, dilators, occluders, stents, suprapubic catheters and camera introducers configured with external screw threads and depending substantially on rotation for means of advancement and emplacement in mammalian genitourinary and gastrointestinal passages and organs.

29) Family number: 32099125 (US2003225344A) © PatBase

Title: APPARATUS AND METHOD TO ACCESS THE BONE MARROW FOR ONCOLOGY AND STEM CELL APPLICATIONS

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A61M5/46 (Advanced/Non–invention);
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A61B10/00 A61B10/02 A61B17/00 A61B17/16 A61B17/88 A61B19/00 A61M1/00 (Core/Non–invention);
A61B (Subclass/Invention)

International class (IPC 1–7): A61B10/00 A61B17/00 A61B17/16 A61B17/24 A61B17/32 A61B17/34 A61B17/56 A61B17/58 A61B19/00 A61M1/00 A61M25/06 A61M31/00 A61M37/00 A61M5/00 A61M5/00 A61M5/14 A61M5/20 A61M5/46

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Abstract:
Source: US2003225344A An apparatus for removing portions of bone marrow from a bone is provided. The apparatus includes a housing and a hollow drive shaft operable to engage a gear assembly. The hollow drive shaft includes a first end operable to penetrate the bone and a second end operable to allow retrieval of portions of bone and bone marrow. The apparatus also includes a removable trocar. The removable trocar includes an inner channel operable to convey portions of bone and bone marrow. The gear assembly is able to engage and rotate the hollow drive shaft. A motor operable to drive the hollow drive shaft into the bone marrow by rotation of the hollow drive shaft and a power supply and associated circuitry operable to power the motor are also included.

0) US2009005757A – CATHETER APPARATUS AND METHODS FOR TREATING VAS...

30) Family number: 42771751 (US2009005757A) © PatBase

Title: CATHETER APPARATUS AND METHODS FOR TREATING VASCULATURES

Priority:

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Probable Assignee: ROXWOOD MEDICAL INC

Assignee(s):(std)**:**

FARHANGNIA MEHRDAD ; ROXWOOD MEDICAL INC ; TABER MARK ; UNIQUE CATHETER DESIGNS LLC ; YANG MARK C

Assignee(s): ROXWOOD MEDICAL INC DOVER

Inventor(s):(std)**:** FARHANGNIA MEHRDAD ; MARK TABER ; MILLER JOHN ; TABER MARK ; YANG MARK C

Inventor(s): TABER MARK ST LOUIS

Agent(s): HANNKE BITTNER AND PARTNER; MACDOUGALL ALAN JOHN SHAW; CREASE DEVANAND JOHN; DOMPATENT VON KREISLER SELTING WERNER PARTNERSCHAFT VON PATENT U RECHTSANWAELTEN MBB; PONTI ADELAIDA; YAMAKAWA MASAKI; PATTON BOGGS LLP; VENABLE LLP; MICHELE V; FRANK MICHELE VAN PATTEN ET AL; FRANK MICHELE V ET AL; FRANK MICHELE VAN PATTEN

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

International class (IPC 8–9): A61B17/22 A61B17/3207 A61B17/34 A61F2/84 A61F2/95 A61F2/958 A61F2/966 A61M25/00 A61M25/01 A61M25/04 A61M25/06 A61M25/09 A61M25/10 A61M25/16 A61M25/18 A61M29/02 (Advanced/Invention);
A61B17/22 A61M25/02 A61M25/06 (Advanced/Non–invention);
A61M25/01 (Core/Invention);
A61F (Subclass/Invention)

CPC: A61M25/09041 A61M2025/109 A61F2/915 A61B17/320725 A61M2025/1047 A61M25/0026 A61M25/0071 A61M25/01 A61M25/1002 A61M25/1011 A61M2025/1045 A61B2017/22042 A61B2017/22044 A61B2017/22069 A61B2017/22094 A61M2025/09175 A61M2025/09183 A61M25/10 A61B17/22 A61M25/0082 A61M25/09 A61M25/104 A61B17/221 A61M25/0068 A61M25/0074 A61M25/008 A61M2025/0042 A61M2025/0046 A61M2025/0293 A61M2025/0681 A61M25/04 F04C2270/041 A61B17/32075 A61B17/3403 A61B2017/3405 A61B17/3207

European class: A61M25/00T10E A61M25/00T20 A61M25/00T8 A61M25/01 A61M25/04 A61M25/10A A61M25/10D K61M25/00R1M K61M25/00S1C K61M25/00T10 K61M25/00T30 K61M25/06H2 K61M25/10Z1

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Abstract:
Source: US2009005757A A catheter apparatus may have a flexible shaft, guidewire lumens passing through the shaft, and a positioning device for positioning the guidewires relative to an external lumen. The positioning device may be an expansible scaffold covered with a retractable sheath. The positioning device may also be one or more balloons that are inflated through an inflation port in the shaft. The catheter apparatus may be operated by inserting a guide catheter into a vasculature with a chronic total occlusion, inserting the catheter apparatus into the guide catheter, and advancing the guidewires through the guidewire lumens and into contact with a chronic total occlusion. The positioning device may be activated before and/or between attempts to pass the guidewires through the chronic total occlusion to interrogate various parts of the chronic total occlusion.

0) US2012095485A – SYSTEMS AND METHODS FOR PERCUTANEOUS OCCLUSION ...

31) Family number: 50951843 (US2012095485A) © PatBase

Title: SYSTEMS AND METHODS FOR PERCUTANEOUS OCCLUSION CROSSING

Priority: AU20110318273 20111014 AU20150200563 20150205 EP20110775878 20111014 CA20152814359 20150115 CA20112814359 20111014 AU20150200564 20150205 US20100394286P 20101018 US20110273111 20111013 WO2011US56434 20111014 US20140561033 20141204

Family:

Publication number	Publication date	Application number	Application date
AU2011318273 AA	20120426	AU20110318273	20111014
AU2011318273 BB	20150205	AU20110318273	20111014
AU2015200563 AA	20150226	AU20150200563	20150205
AU2015200564 AA	20150226	AU20150200564	20150205
CA2814359 AA	20130410	CA20112814359	20111014
CA2814359 C	20151201	CA20112814359	20111014
CA2876704 AA	20120426	CA20112876704	20111014
CN103260689 A	20130821	CN201180060638	20111014
CN103260689 B	20170503	CN201180060638	20111014
DE602011014420 D1	20150416	DE201160014420T	20111014
EP2629826 A2	20130828	EP20110775878	20111014
EP2629826 B1	20150304	EP20110775878	20111014
EP2823848 A2	20150114	EP20140181675	20111014
EP2823848 A3	20150708	EP20140181675	20111014
ES2537266 T3	20150605	ES20110775878T	20111014
HK1185025 A1	20150821	HK20130112612	20131111
HK1204459 A1	20151120	HK20150104858	20150521
IN01049KN2013 A	20130906	IN2013KN01049	20130412
JP2013544561 T2	20131219	JP20130534977T	20111014
JP5902700 B2	20160413	JP20130534977T	20111014
RU2013122868 A	20141127	RU20130122868	20111014
US2012095485 AA	20120419	US20110273111	20111013
US2015094747 AA	20150402	US20140561033	20141204
US8932315 BB	20150113	US20110273111	20111013
US9402649 BB	20160802	US20140561033	20141204
WO12054349 A2	20120426	WO2011US56434	20111014
WO12054349 A3	20120621	WO2011US56434	20111014

Probable Assignee: GORE AND ASS

Assignee(s):(std)**:** BOLAND II BRIAN R ; CULLY EDWARD H ; DUNCAN JEFFREY B ; GOODMAN PAUL D ; GORE ENTERPRISE HOLDINGS INC ; GORE AND ASS

Assignee(s): WLGORE AND ASSOCIATES INC ; WL GORE AND ASSOCIATES INC NEWARK ; WL GORE AND ASSOCIATES INC ; W L GORE AND ASSOCIATES INC ; BOLAND BRIAN R II

Inventor(s):(std)**:** BOLAND BRIAN R II ; BOLAND II BRIAN R ; CULLY EDWARD H ; DUNCAN JEFFREY B ; GOODMAN PAUL D

Inventor(s): GOODMAN PAUL D NEWARK ; GOODMAN PAUL ; BOLAND II BRIAN R NEWARK ; CULLY EDWARD ; BOLAND II BRIAN ; BOLAND BRIAN R

Agent(s): GRIFFITH HACK; GOWLING LAFLEUR HENDERSON LLP; MARKS AND CLERK LUXEMBOURG LLP; SHANKS ANDREW; CARPINTERO MARIO; AOKI ATSUSHI; SHIMADA TETSURO; DAVID J; AMAYA EDWARD I 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 QA RO RS RU RW 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

International class (IPC 8–9): A61B1/32 A61B17/00 A61B17/22 A61B17/3207 A61B17/34 A61B5/02 A61B5/145 A61M25/00 A61M25/01 A61M25/06 A61M29/00 (Advanced/Invention); A61B17/00 A61M25/00 (Advanced/Non–invention); A61B A61M (Subclass/Invention)

CPC: A61B17/3207 A61B17/22 A61B2017/00309 A61B2017/22042 A61B2017/22044 A61B2017/22077 A61B2017/22094 A61B2017/22095 A61M25/0194 A61M2025/0197 A61B2017/00867 A61M25/0054 A61M25/0082 A61M2025/018

European class: A61B17/22 A61B17/3207 K61B17/00E3G4C K61B17/22G3 K61B17/22G3P K61B17/22K2P K61B17/22T K61B17/22T2 K61M25/00S3 K61M25/00T40

US class: 1/1 606/159 606/159P 606/185

Classification Explorer

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Forward Citations: WO16126974, WO14116640, US9629987, US9446222, US9433764, US9364642, US9320874, US9308356, US9301777, US2014088585, US2012283775,

Abstract:
Source: US2012095485A The present invention provides methods and apparatuses for crossing or bypassing total or near total occlusions of vessels through the use of elongate members and specialized catheters that include a piercing catheter, a reentry catheter, a multi–lumen, reentry catheter, and combinations thereof. A piercing catheter comprises a distal tip used to pierce an occlusion in a crossing procedure and can be configured to microdissect the occlusion or provide support for an elongate member. A reentry catheter comprises a distal side port and ramp to facilitate the reentry or perforation of a vessel wall. A multi–lumen, reentry catheter comprises a tearable lumen divider and a distal side port and ramp.

32) Family number: 51596421 (US2014012307A) © PatBase

Title: DETACHABLE METAL BALLOON DELIVERY DEVICE AND METHOD

Priority: AU20120207386 20120117 AU20160256789 20161111 US20110433305P 20110117
US20120980274 20120117 US20120372967 20120717 US20110443305P 20110117
WO2012US21620 20120117 WO2012US00030 20120117 WO2012US21621 20120117
US20120980278 20120117 US20120980276 20120117 WO2012US47072 20120717

Family:

Publication number	Publication date	Application number	Application date
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WO12099910 A2	20120726	WO2012US21621	20120117	
WO12099910 A3	20121026	WO2012US21621	20120117	
WO13109309 A1	20130725	WO2012US47072	20120717	

Probable Assignee: METACTIVE MEDICAL INC

Assignee(s):(std)**:** FRANANO F NICHOLAS ; FRANANO NICHOLAS ; METACTIVE MEDICAL INC ; NOVITA THERAPEUTICS LLC ; STEPHENSON KATHERINE ; STEPHENSON KATHERINE J

Assignee(s): NOVITA THERAPEUTICS LLC200 – 10900 S. CLAY BLAIR BLVD.OLATHEKS66061US ; FRANANO F

Inventor(s):(std)**:** F NICHOLAS FRANANO ; FRANANO F NICHOLAS ; FRANANO NICHOLAS ; KATHERINE J STEPHENSON ; STEPHENSON KATHERINE ; STEPHENSON KATHERINE J

Inventor(s): STEPHENSON KATHERINEUS ; KATHERINE STEPHENSON ; FRANANO NICHOLASUS ; FRANANO F

Agent(s): PIZZEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; GOWLING LAFLEUR HENDERSON LLP; GOWLING WLG CANADA LLP; TURNER RHIANNON ROSALIND; WALLIS NAOMI RACHEL; TANAKA MITSUO; AOYAMA TAMOTSU; TAMURA YASUO; SAMEJIMA MUTSUMI; GONJOU KEIICHI; POLSINELLI PC; WOOLLEY PATRICK C; WOOLLEY PATRICK 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 QA RO RS RU RW 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

International class (IPC 8–9): A61B17/00 A61B17/03 A61B17/12 A61B17/22 A61F A61F2/02 A61F2/04 A61F2/06 A61F2/82 A61F2/94 A61F2/95 A61F2/958 A61L29/00 A61L31/00 A61M A61M25/01 A61M25/10 A61M25/16 A61M29/00 A61M29/02 (Advanced/Invention);
A61B17/00 (Advanced/Non–invention);
A61F A61M (Subclass/Invention)

CPC: A61M25/1029 A61F2/958 A61B17/12136 A61B17/12172 A61B17/3415 A61B2017/00004 A61B2017/00849 A61B2017/00884 A61B2017/22038 A61B2217/007 A61F2/06 A61B17/12113 A61B17/1214 A61B17/12177 A61B17/12181 A61B2017/00867 A61B2017/12077 A61B17/12186 A61B2017/00349 A61B2017/00929 A61B2017/00995 A61B2090/3966 A61B17/12031 A61B17/12109 A61B17/12131 A61B2017/00526

A61B2017/00893 A61B2017/12054 A61B2017/12059 A61B2017/12063 A61B2017/12068 A61B2090/037 Y10T29/49826

US class: 164/47 205/73 29/428 606/194 606/195 623/1.12

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Forward Citations: WO16154634, WO16044647, WO15176159, WO15166013, WO15038947, WO14146001, US9579427, US9572698, US9572697, US9358140, US9326774, US8900304, US2014142620, US2014018838, US2014012363, JP2014509881, JP2014506809, EP3092956, EP2967811, CN105392447, CN105213076, CN104835148,

Abstract:
Source: US2014012307A A medical device comprising a compressed, inflatable, detachable single−lobed metal balloon attached to a catheter and methods of use for occluding blood vessels or treating vascular aneurysms are disclosed. The balloon can be made with ductile metals such as gold, platinum, or silver so that the balloon will conform to the shape of the void space during inflation and so that the balloon can be subsequently shaped by the application of an external force. The balloon can be configured such that it can be detached from the catheter by physical means or by electrolysis. The surface of the balloon can be configured to promote the growth of tissue into the wall of the balloon and to release drugs or pharmacologically active molecules, so that vessel occlusion or the sealing of an aneurysm will be maintained over time.

0) US2002143360A – TEMPORARY INTRALUMINAL FILTER GUIDEWIRE

33) Family number: 30199924 (US2002143360A) © PatBase

Title: TEMPORARY INTRALUMINAL FILTER GUIDEWIRE

Priority:
EP20020003917 20020221 EP20030005072 20030306 EP20030005072 20030306
US20030351634 20030124 US20020099399 20020315 US20010918441 20010727
US20010922996 20010801 US20020116238 20020404 US20010824832 20010403
US20050130727 20050517 US20040797558 20040310 WO2002US23609 20020725
WO2003US10022 20030402 WO2003US10097 20030402 WO2002US23831 20020725
US20050053368 20050208

Family:

Publication number	Publication date	Application number	Application date
AT299680 E	20050815	AT20020003917T	20020221
AT310465 E	20051215	AT20020753417T	20020725
AT345095 E	20061215	AT20020016924T	20020221
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Probable Assignee: MEDTRONIC VASCULAR INC

Assignee(s):(std)**:** STRICKLER PETER G ; MEDTRONIC AVE INC ; MEDTRONIC VASCULAR INC

Assignee(s): MEDTRONIC AVE ; RAFIEE NASSER ; PATEL MUKUND R ; NOOL JEFFREY A ; NOONE MICHAEL S ; POOLE MATT S ; SAUVAGEAU DAVID J ; BAGAOISAN CELSO J ; BRIGHTBILL JERRY ; BRIN DAVID S ; CRITTENDEN JAMES F ; DAPOLITO STEVE ; DOUK NAREAK ; HA HUNG V ; JENNINGS ELLEN M

Inventor(s):(std)**:** BRIN DAVID S ; DOUK NAREAK ; NAREAK DOUK ; RAFIEE NASSER ; STRICKLER PETER G ; STRICKLER G ; SAUVAGEAU DAVID J ; POOLE MATT S ; PATEL MUKUND R ; NOONE MICHAEL S ; NOONE MICHAEL ; NOOL JEFFREY A ; DAPOLITO STEVE ; CRITTENDEN JAMES F ; BRIN S ; BRIGHTBILL JERRY ; BAGAOISAN CELSO J ; JENNINGS ELLEN M ; HA HUNG V

Inventor(s): DAVID J SAUVAGEAU ; BRIN DAVID ; NASSER RAFIEE ; STEVE DAPOLITO ; STRICKLER PETER ; POOLE MATT ; JENNINGS ELLEN

Agent(s): BAUER FRIEDRICH ET AL; BAUER FRIEDRICH; MEDTRONIC VASCULAR INC IP LEGAL DEPARTMENT; JAMES F; CRITTENDEN JAMES F

Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT JP LI LU MC NL PT RO SE SI SK TR

International class (IPC 8–9): A61B17/00 A61B17/12 A61B17/22 A61B17/221 A61F2/01 A61F2/82 A61F2/84 A61M25/00 A61M25/01 A61M25/09 A61M25/10 A61M29/00 (Advanced/Invention); A61B17/22 (Advanced/Non–invention)

International class (IPC 1–7): A61B17/00 A61B17/22 A61F2/00 A61F2/01 A61F2/04 A61M25/00 A61M25/01 A61M25/09 A61M29/00

CPC: A61F2002/018 A61F2230/0006 A61M25/0905 A61F2230/0069 A61F2230/0071 A61F2230/008 A61F2230/0067 A61F2230/0076 A61F2002/015 A61B17/1204 A61B17/12022 A61B17/12036 A61B17/12109 A61B17/12172 A61B2017/1205 A61B2017/22038 A61B2017/22045 A61F2/013 A61F2002/011 A61M25/09 A61M25/09025 A61M25/1011 A61M2025/09008 A61M2025/09183 A61M2025/1015 A61B2017/12095

European class: A61B17/12P A61B17/12P1P A61B17/12P1T A61B17/12P5B A61B17/12P7W1 A61F2/01D A61M25/01B A61M25/01B1 A61M25/09 A61M25/09B1 A61M25/09D A61M25/10D K61B17/12P K61B17/12P2 K61B17/22G K61B17/22G4 K61F2/01B K61F2/01D2 K61M25/09 K61M25/09A K61M25/09T1 K61M25/10D2

US class: 606/200 606/200P

Classification Explorer

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Forward Citations: WO16141631, WO15079401, WO15013238, WO14145892, WO13188226, WO13071179, WO13047616, WO11106426, WO11068924, WO10110996, WO10110996, WO09054801, WO08094827, WO08012285, WO07117866, WO07117866, WO06074446, WO06047506, WO06047506, WO06010929, WO06010929, WO05117754, WO05060872, WO04073525, WO03094791, WO03094791, WO03090607, WO03088869, US9662129, US9649495, US9642705, US9629635, US9615909, US9610181, US9610083, US9603692, US9597101, US9597087, US9592068, US9585750, US9585749, US9585651, US9579193, US9572650, US9561122, US9561103, US9555219, US9555215, US9554904, US9554899, US9539081, US9532872, US9532792, US9526609, US9510945, US9510930, US9498318, US9492273, US9492174, US9474639, US9474557, US9452070, US9439757, US9439693, US9433427, US9415225, US9398946, US9393113, US9393094, US9393021, US9387076, US9387063, US9381104, US9370421, US9364586, US9358110, US9358106, US9358022, US9351821, US9345447, US9339207, US9326842, US9320599, US9320590,

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US2007060911, US2007060908, US2007049965, US2007038226, US2007021775, US2007016072, US2007016070, US2007016069, US2007016068, US2007010762, US2006287668, US2006282113, US2006271149, US2006271093, US2006271067, US2006259121, US2006229638, US2006224180, US2006224175, US2006200047, US2006189921, US2006184194, US2006161198, US2006111689, US2006047301, US2006030878, US2006015141, US2006015140, US2006006649, US2006004405, US2005283185, US2005283183, US2005277976, US2005261759, US2005251189, US2005209631, US2005137687, US2005137686, US2005131450, US2005085847, US2005085846, US2005080356, US2005075663, US2005021075, US2005015112, US2005004597, US2004267301, US2004249413, US2004243170, US2004236368, US2004220612, US2004215230, US2004138692, US2003153944, US2002188314, JP5944914, JP2015513432, JP2015500681, JP2014500745, JP2013154183, JP2013022166, JP2012513294, JP2011206175, JP2010207342, JP2010094141, JP2007105465, GB2503013, FR2850285, EP2967806, EP2776113, EP2474268, EP2361590, EP1883357, EP1600107, EP1527740, EP1527740, EP1524005, EP1524005, CN105813601, CN105377184, CN103385744, AU2014232401,

Abstract:
Source: US2002143360A The present invention is a temporary intraluminal filter guidewire for use during interventional procedures, such as angioplasty or stent deployment. A braided filter is mounted near the distal end of a steerable guidewire, which guides a therapeutic catheter. An actuator rod slides over the guidewire and is removably connected to the filter. The rod controls relative displacement of the filter ends, causing transformation of the filter between a deployed configuration and a collapsed configuration. In several embodiments, the guidewire distal to the filter has a fixed tip length. Other embodiments of the invention include a mechanism for damping longitudinal movement between the distal and proximal ends of the filter.

0) US2001056281A – VASO–OCCLUSIVE MEMBER ASSEMBLY WITH MULTIPLE DE...

34) Family number: 30090818 (US2001056281A) © PatBase

Title: VASO–OCCLUSIVE MEMBER ASSEMBLY WITH MULTIPLE DETACHING POINTS

Priority: US19980025707 19980218 US19990330462 19990611 US20000662981 20000915 US20010939013 20010824 WO1999US03495 19990218 US20030369899 20030218 US20010997276 20011127

Family:

Publication number	Publication date	Application number	Application date
AU199927722 A1	19990906	AU19990027722	19990218
CA2320336 AA	20000810	CA19992320336	19990218
DE69939928 D1	20090102	DE19996039928	19990218
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US6623493 BB	20030923	US20010939013	20010824
WO9942038 A1	19990826	WO1999US03495	19990218

Probable Assignee: STRYKER CORP

Assignee(s):(std)**:** ROUE CHAD C ; SCIMED LIFE SYSTEMS INC ; BOSTON SCIENT LTD ; TARGET THERAPEUTICS INC ; WALLACE MICHAEL P

Assignee(s): BOSTON SCIENTIFIC LIMITED ; BOSTON SCIENTIFIC LTD ; STRYKER CORP ; STRYKER EUROPEAN HOLDINGS I LLC ; STRYKER MEDTECH LTD ; STRYKER OPERATIONS LTD NV

Inventor(s):(std)**:** ROUE CHAD C ; WALLACE MICHAEL P ; MICHAEL P WALLACE ; CHAD C ROUE

Agent(s): SMART AND BIGGAR; ALTENBURG UDO ET AL

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW

International class (IPC 8–9): A61B17/00 A61B17/12 A61F2/02 A61M25/16 (Advanced/Invention); A61F2/02 A61L31/02 A61L31/04 A61L31/06 A61M25/16 (Advanced/Non–invention)

International class (IPC 1–7): A61B17/00 A61B17/08 A61B17/12 A61F2/02 A61F2/06 A61M29/00

CPC: A61B17/12022 A61B17/12113 A61B17/1214 A61B17/12163 A61B2017/1205 A61B2017/12063

European class: A61B17/12P A61B17/12P5B1 A61B17/12P7C A61B17/12P7S K61B17/12P2 K61B17/12P2D4

US class: 606/108 606/108P 606/151 606/200 606/200P 606/213

Classification Explorer

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Abstract:
Source: US2001056281A This device is an apparatus for endovascular occlusion through the formation of thrombi in arteries, veins, aneurysms, vascular malformations, and arteriovenous fistulas. In particular, the device includes multiple vaso−occlusive members connected by electrolytically disintegratible links. Each link connects to the vaso−occlusive member by electrically insulative and conductive joints on opposite ends of the link. The vaso−occlusive members are delivered through a delivery catheter having on its distal end an electrode for electrical contact with the vaso−occlusive member. Upon application of an electrical current through the electrode to the vaso−occlusive member and its conductive joint to the electrolytically disintegratible link, the link

disintegrates, selectively detaching the desired number of vaso−occlusive members into the target thrombus formation site.

35) Family number: 30128659 (US2002097633A) © PatBase

Title: MULTI–STREAM MICROFLUIDIC MIXERS

Priority:

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Family:

Publication number	Publication date	Application number	Application date
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Inventor(s): C D KARP ; CHRISTOPH KARP ; GAMBLE RONALD ; EUGENE DANTSKER ; HOBBS STEVEN ; KARP CHROSTOPH D ; MATTHEW M GREGORI ; S E HOBB C D KARP ; S

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Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 NE NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

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International class (IPC 1–7): B01D11/00 B01D15/08 B01D17/00 B01D29/01 B01D63/08 B01F13/00 B01F5/00 B01F5/04 B01F5/06 B01J19/00 B01L3/00 B01L3/02 B01L9/00 B81B1/00 B81B7/00 B81C3/00 F15C1/06 F15C1/12 F15C1/14 G01D9/00 G01N1/00 G01N15/14 G01N21/05 G01N27/447 G01N27/453 G01N27/62 G01N30/00 G01N30/02 G01N30/16 G01N30/26 G01N30/32 G01N30/46 G01N30/48 G01N30/56 G01N30/60 G01N30/62 G01N30/64 G01N30/70 G01N30/72 G01N30/74 G01N30/78 G01N31/00 G01N31/20 G01N37/00 G05B7/00

CPC: Y10S366/04 B01J2219/00918 B01J2219/00975 B01J2219/00981 B01J2219/00986 B01L2200/0621 B01L2200/143 B01L2400/0694 G01N30/80 B01F5/0688 B01J2219/0081 B01J2219/00822 B01J2219/00837 B01J2219/00867 B01J2219/00873 B01J2219/00889 B01J2219/00916 B01J2219/00934 B01J2219/00961 B01L2300/087 B01L2300/18 B01L2400/0638 B01L2400/084 B01F5/0646 B01D63/088 B01D61/20 B01D63/081 B01D65/003 B29C59/14 B29C59/16 B29C2035/0827 B29K2023/06 B29K2071/00 B32B38/0008 B32B38/10 B29C66/91212 B29C66/91213 B29C66/91216 B29C66/91221 B29C66/91231 B29C66/81812 B01J2219/00835 B01J2219/00952 B01L3/502746 B01L2200/10 B01L2200/12 B29C66/45 B32B37/0023 B32B37/08 B32B37/10 B32B38/004 B32B2037/0092 B32B2038/166 B32B2309/02 B32B2309/022 B32B2309/12 B32B2310/024 G01N27/44791 B32B41/00 B29C66/91411 B29C66/91445 B29C66/91645 B29C66/92445 B29C66/929 B29C66/92441 Y10T436/25125 Y10T436/255 Y10T436/2575 Y10T436/11 Y10T436/117497 Y10T436/118339 Y10T29/49002 Y10T428/24562 Y10T428/24744 Y10T436/25 Y10T436/25625 Y10T436/25375 B01L3/5025 B01L2400/0683 B81C2201/019 B01L2300/165 B81B2201/051 G01N30/16 G01N30/466 G01N2030/167 B29C66/727 B29C66/961 Y10T137/2191 Y10T137/2224 Y10T137/8122 Y10T137/0318 Y10T137/2496 Y10T137/2501 Y10T137/2562 Y10T137/206 Y10T137/212 Y10T137/2196 Y10T137/8359 B29C66/8322 Y10T137/0402 Y10T137/598 Y10T137/0491 Y10T137/2076 Y10T137/2082 Y10T137/2164 Y10T137/2147 Y10T137/5109 Y10T137/5283 Y10T137/85938 B01F5/0604 B01L3/502784 G01N2035/00237 G01N2035/00544 B01J2219/00826 B01J2219/00909 B01F15/0205 B01L2200/028 B01L2300/123 B01L2400/06 G01N35/10 G01N2035/00326 B01F15/0264 B01J19/0093 B01J2219/00783 B01J2219/00833 B01J2219/00869 B01J2219/00891 B01J2219/00997 B01L3/5027 B01L2300/0681 B01L2300/0864 B01L2300/0867 B01L2300/0874 B01L2300/0887 B01L2300/14 B01L2400/0406 B01L2400/0688 B29C66/026 B29K2023/00 B29K2023/12 B29L2031/756 B81B2201/058 B81C3/008 G01N2030/565 B29C66/73161 G01N21/05 G01N2021/0346 G01N2021/056 G01N2021/058 B01L3/502761 B01L3/502723 B01L3/502738 B29C65/02 B29C66/71 B01D15/1864 B01D15/1885 G01N30/603 G01N30/6043 G01N30/6091 B01L3/502776 B01F5/0682 B82Y30/00 B01L2300/0816 B01L2400/0487 G01N30/6095 B01L3/502715 B01L3/50273 B01L3/565 B01L2200/027 B01L2200/0689 G01N30/6026 B81C1/00119 B01D61/18 B01D63/087 B01F5/0471 B01L3/502707 B29C65/18 B29C66/02 B01F5/064 B01F13/0059

B01L3/502753 B01D17/00 B81B1/002

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US class: 137/1 137/110 137/15.01 137/15.18 137/269 137/271 137/315.01 137/550 137/559 137/561.00A 137/561A 137/803 137/806 137/807 137/814 137/819 137/822 137/827 137/828 137/833 137/87.01 137/89 204/45 204/450 204/450S 204/451 204/451S 204/600 204/601 210/137 210/137S 210/198.2 210/198.200P 210/198.200S 210/321.6 210/321.84 210/321.840P 210/488 210/489 210/489S 210/49 210/490 210/490S 210/500.1 210/500.100S 210/506 210/511 210/542 210/635 210/656 216/2 216/2S 216/56 216/56S 251/368 29/592.1 29/592.100S 346/7 346/7P 366/336 366/336P 366/336S 366/341 366/341P 366/341S 366/DIG.4 422/100 422/100S 422/101 422/101P 422/101S 422/102 422/102S 422/103 422/104 422/188 422/400 422/400P 422/400S 422/50 422/502 422/502S 422/504 422/504S 422/534 422/534S 422/57 422/57S 422/58 422/58S 422/60 422/60P 422/68.1 422/69 422/69S 422/7 422/70 422/70S 422/81 422/81S 422/82 422/82.05 422/82.050P 422/946 422/946S 422/99 422/99S 428/166 428/188 435/287.3 435/287.300S 435/288.4 435/288.400S 436/161 436/161P 436/161S 436/174 436/175 436/175S 436/177 436/177P 436/177S 436/178 436/178S 436/179 436/18 436/180 436/180P 436/180S 436/43 436/52 436/53 73/61.52 73/61.520 73/61.520P 73/61.55 73/615.2

Classification Explorer

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CN102448604, CN102411060, CN102401760, CN102401760, CN102371194, CN102149628, CN102016595, CN101918128, AU2011215721, AU2009228091, AP3379,

Abstract:
Source: US2002097633A Robust microfluidic mixing devices mix multiple fluid streams passively, without the use of moving parts. In one embodiment, these devices contain microfluidic channels that are formed in various layers of a three−dimensional structure. Mixing may be accomplished with various manipulations of fluid flow paths and/or contacts between fluid streams. In various embodiments, structures such as channel overlaps, slits, converging/diverging regions, turns, and/or apertures may be designed into a mixing device. Mixing devices may be rapidly constructed and prototyped using a stencil construction method in which channels are cut through the entire thickness of a material layer, although other construction methods including surface micromachining techniques may be used.

0) US2009018562A – PERCUTANEOUS CATHETER DIRECTED INTRAVASCULAR OC...

36) Family number: 42781406 (US2009018562A) © PatBase

Title: PERCUTANEOUS CATHETER DIRECTED INTRAVASCULAR OCCLUSION DEVICES

Priority: CA20072609933 20071107 CN200780100580 20070905 EP20070254329 20071031 JP20070337174 20071227 JP20130082265 20071227 EP20100011146 20071031 US20070827590 20070712 WO2007US19347 20070905 US20110216784 20110824 US20130837351 20130315 US20150593039 20150109

Family:

Publication number	Publication date	Application number	Application date
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AU2007231904 BB	20130919	AU20070231904	20071109
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US8961556 BB	20150224	US20130837351	20130315
WO09008868 A1	20090115	WO2007US19347	20070905

Probable Assignee: ST JUDE MEDICAL CARDIOLOGY DIVISION INC

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	ST JUDE MEDICAL CARDIOLOGY DIVISION INC ; LEHMAN COMMERCIAL PAPER INC ; EHJDZHIEHJ MEDIKAL KORPOREJSHN ; BANK OF AMERICA NA
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Inventor(s):	JOHN C OSLUND ; DANIEL O ADAMS
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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 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 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 ZA ZM ZW
International class (IPC 8–9):	A61B17/00 A61B17/03 A61B17/08 A61B17/12 A61F2/00 A61F2/06 A61F2/90 A61M25/00 A61M25/01 A61M29/00 (Advanced/Invention); A61B17/00 (Advanced/Non–invention); A61B17/03 A61B17/12 A61F2/00 A61F2/06 A61F2/82 A61M25/00 A61M25/01 A61M29/00 (Core/Invention)
International class (IPC 1–7):	A61B17/00
CPC:	A61B17/12022 A61B17/12122 A61B17/12172 A61B17/12177 A61B2017/00575 A61B2017/00592 A61B2017/00606 A61B2017/00628 A61B2017/00632 A61B2017/00867 A61B17/0057 A61B17/12109
European class:	A61B17/00P A61B17/12P A61B17/12P5B A61B17/12P5H A61B17/12P7W1 A61B17/12P7W3 K61B17/00P5 K61B17/00P5E K61B17/00P5H K61B17/00P5T K61B17/00P5W K61B17/00S12
US class:	606/151 606/157 606/157P 606/191 606/191P 606/191S 606/200 606/213
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Forward Citations:	WO15166013, WO13060855, WO11147783, USD728102, USD727501, USD727500, USD713527, US9642993, US9636116, US9636094, US9597088, US9474517, US9456812, US9451965, US9451939, US9445799, US9445798, US9381006, US9358371, US9314326, US9307998, US9295472, US9277995, US9247942, US9232997, US9205236, US9179920, US9149277, US9113890, US9107669, US9095344, US9039724, US9017351, US9005155, US8984733, US8961556, US8951223, US8882697, US8821529, US8777974, US8764787, US8758389, US8752258, US8747453, US8745845, US8740962, US8460372, US8454633, US8398670, US8361138, US8313505, US2014296908, US2014257373, US2014257360, US2014135828, US2013296912, US2013218202, US2011307000, US2011190874, US2011071624, US2011071623, US2010298755, US2009187214, US2009171386, US2009112251, US2009062841, US2009025820, US2008200945, US2007265656, US2006241690, JP2013526951, JP2013526950, EP3146903, EP2967579, EP2596754, EP2387950, EP2074953, CN104490452, CN104287803, CN103889339, CN103124524, CN102985014,

Abstract:
Source: US2009018562A The present invention provides an improved vascular occlusion device having improved flexibility and retention of the type fabricated from braided tubular metal fabric having an expanded preset configuration and an elongated collapsed reduced diameter configuration for delivery through a catheter to a treatment site and shaped to create an occlusion of an abnormal opening in a body organ or vessel, the woven metal fabric having a memory property whereby the medical device tends to return to said expanded preset configuration when unconstrained. The device further including at least one disk portion adjacent a body cylindrical portion formed from the fabric and having a transition diameter between the disk and cylindrical portion, significantly smaller than the diameter of the disk and the diameter of the cylindrical portion.

0) US5137532A – PROSTHETIC HEART VALVE

37) Family number: 8407463 (US5137532A) © PatBase

Title: PROSTHETIC HEART VALVE

Priority: AU19920015327 19920303 CA19932105894 19930910 US19910730126 19910715 US19920888872 19920526 US19910674871 19910325 US19920837761 19920218 US19920958049 19921006 WO1992US05831 19920713 US19920914206 19920714 US19920919285 19920724 WO1992US01732 19920303 WO1992US05837 19920713 US19920951680 19920925

Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: ONX INC

Assignee(s):(std)**:** ONX INC

Assignee(s): PAUL CAPITAL ROYALTY ACQUISITION FUND LP ; MEDICAL CARBON RESEARCH INST ; ONX INC AUSTIN TEX US ; MEDICAL CARBON RESEARCH INST LLC ; ONX INC A CORP OF DELAWARE ; MCRI INC ; HEALTHCARE FINANCIAL SOLUTIONS LLC AGENT AS ; VALVE SPECIAL PURPOSE CO ; VALVE SPECIAL PURPOSE CO LLC ; PETERS T SCOTT ; STUPKA JONATHAN C ; TAIWAN DEI TEMP CONTROL TECHNOLOGY CO LTD ; BOKROS JACK C ; COMERICA BANK A TEXAS BANKING ASSOCIATION ; EMKEN MICHAEL ROY ; HAUBOLD AXEL D

Inventor(s):(std)	BOKROS JACK ; BOKROS JACK C ; EMKEN MICHAEL ; EMKEN MICHAEL R ; HAUBOLD AXEL D ; PETERS SCOTT T ; PETERS T ; PETERS T S ; STUPKA JOHNATHAN C ; STUPKA JONATHAN ; STUPKA JONATHAN C ; PETERS T SCOTT ; EMKEN MICHAEL ROY
Inventor(s):	SHIU DE BIN ; AXEL D HAUBOLD ; MICHAEL R EMKEN ; JONATHAN C STUPKA ; JACK C BOKROS ; STUPKA JONATHAN C AUSTIN TX 78729 US ; T SCOTT PETERS ; PETERS T SCOTT GEORGETOWN TX 78628 US ; SCOTT T PETERS ; HAUBOLD AXEL D LIBERTY HALL TX 78642 US ; JOHNATHAN C STUPKA ; MICHAEL ROY EMKEN ; EMKEN MICHAEL ROY AUSTIN TX 78731 US ; BOKROS JACK C AUSTIN TX 78730 US
Agent(s):	SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; MACRAE AND CO
Designated states:	AT AU BE BR CA CH DE DK ES FR GB GR IT JP KR LI LU MC NL SE
International class (IPC 8–9):	A61F2/24 F24F13/08 F24F13/32 (Advanced/Invention); A61F2/24 (Core/Invention)
International class (IPC 1–7):	A61F2/06 A61F2/24 F16K15/00 F16K17/00 F16K21/04
CPC:	Y10T137/7898 Y10T137/7875 A61F2/2409 A61F2/2403
European class:	A61F2/24B A61F2/24C
US class:	137/521 137/527 251/212 623/2 623/2.22 623/2.26 623/2.32 623/3.18
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Cited documents:	WO9216169 A2, WO9101698 A1, US5178632 A, US5147390 A, US5116367 A, US5116366 A, US5108425 A, US5080669 A, US5078738 A, US5041131 A, US4872875 A, US4863467 A, US4863459 A, US4863458 A, US4822353 A, US4731075 A, US4725275 A, US4692165 A, US4597767 A, US4535484 A, US4451937 A, US4443894 A, US4425670 A, US4373216 A, US4357715 A, US4328592 A, US4308624 A, US4276658 A, US4272854 A, US4254508 A, US4178639 A, US4178638 A, US4159543 A, US4118806 A, US4078268 A, US4011601 A, US3974854 A, US3744060 A, US3689942 A, US3589392 A, US3118468 A, SU1371700 T, SU1360724 T, AU2346992 A1,
Forward Citations:	WO9636299, WO9629957, WO16137321, WO13181548, WO08152224, US9023102, US8470026, US7968036, US7449027, US6730122, US6719790, US6645244, US6391053, US6306243, US6296663, US6199278, US6176876, US6143352, US6096075, US6059826, US6007577, US5984958, US5919226, US5879375, US5861030, US5843129, US5824069, US5824062, US5814099, US5772694, US5758666, US5722429, US5702430, US5693091, US5676651, US5676162, US5653750, US5624669, US5607470, US5582834, US5575997, US5554186, US5545216, US5514372, US5514371, US5376111, US5336259, US5326372, US2012101573, US2010241221, US2008319536, US2007115398, US2005234541, US2005065600, US2005065599, US2004122515, TWI546092, TWI404522, RU2475212, FR2915678, EP2229920, EP1338255, EP0963739, EP0825841, EP0594754, DE19826104, DE19633346,

Abstract:
Source: US5137532A Bi−leaflet heart valves have improved flow characteristics in their open position as a result of employing valve bodies of elongated axial dimension. By elongating the axial dimension of valve bodies which have straight, smooth interior wall surfaces oriented parallel to the centerline through the valve and to the flow path of blood, and by employing a pair of occluders which have major surfaces that are rectilinear and can assume an orientation that is substantially parallel to the centerline in the open position, a streamlining of blood flow occurs. The pivot arrangements avoid the use of acute angular surface orientations and cause the occluders, although aligned substantially parallel to blood flow in the open position, to promptly pivot toward the closed position upon reversal of blood flow. This streamlining substantially reduces turbulence and results in low head loss, both significant advantages in bi−leaflet heart valve performance.

0) US2008300672A – DEVICES AND METHODS FOR MAGNETIC TISSUE SUPPORT...

38) Family number: 34197414 (US2008300672A) © PatBase

Title: DEVICES AND METHODS FOR MAGNETIC TISSUE SUPPORT

Priority:

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Publication number	Publication date	Application number	Application date
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Probable Assignee: CVDEVICES LLC

Assignee(s):(std)**:** CVDEVICES LLC ; KASSAB GHASSAN ; KASSAB GHASSAN S ; NAVIA JOSE A ; NAVIA JOSE A SR ; NAVIA SR JOSE A ; NAVIA SR JOSE

Assignee(s): QINGDAO RUBBER SIX GROUP CO LTD

Inventor(s):(std)**:** KASSAB GHASSAN ; KASSAB GHASSAN S ; NAVIA JOSE A ; NAVIA JOSE A SR ; NAVIA SR JOSE ; NAVIA SR JOSE A

Inventor(s): GHASSAN S KASSAB ; JOSE A NAVIA

Agent(s): GRIFFITH HACK; SMART AND BIGGAR; CROSTON DAVID; ICE MILLER LLP; REICHEL IP LLP; MARK C; KEVIN R; NATALIE J; REICHEL STOHRY LLP; DEAN NATALIE J; DUFF GREGORY A; REICHEL MARK C

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 TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): A61B1/00 A61B17/00 A61B17/03 A61B17/08 A61B17/10 A61B17/12 A61B17/122 A61B17/128 A61F2/02 A61F2/04 A61F2/06 A61F2/07 A61F2/24 A61F2/82 A61F2/84 A61F2/88 A61F2/89 A61F5/00 A61M1/00 A61M19/00 A61M31/00 A61N2/06 A61N2/10 C07D403/02 (Advanced/Invention); A61B17/00 A61B19/00 A61F2/88 A61F2/89 (Advanced/Non–invention); A61B1/00 A61B17/00 A61B17/03 A61B17/12 A61F2/06 A61F2/82 A61M1/00 A61M19/00 A61N2/00 C07D403/00 (Core/Invention)

CPC: A61F5/0013 A61B17/1114 A61B2017/00818 A61B2017/1135 A61F2/04 A61F2002/044 A61F2002/30079 A61F2210/009 A61B17/00234 A61F5/003 A61F5/005 A61B17/07207 A61B17/12 A61F5/0086 A61B17/083 A61B17/12099 A61B17/12122 A61B17/12131 A61B2017/00243 A61B2017/081 A61F2/2445 A61F2002/30537 A61F2250/0004 A61F2002/823 A61B2017/00575 A61B2017/00592 A61B2017/00606 A61B2017/00619 A61B17/12118 A61B17/00491 A61B17/12022 A61B17/12186 A61B17/12195 A61B2017/00561 A61B2017/00898 A61F2002/075 A61F2002/077 A61B17/12113 A61B17/0057 A61F2250/0013 A61F2002/061 A61F2/07 A61F2/82 A61F2/88 A61F2/89 A61B2019/464 A61B2090/064 A61B17/122 A61B17/0643 A61B17/08 A61B2017/00876

European class: A61B17/00P A61B17/072B A61B17/08 A61B17/11D A61B17/12 A61B17/122 A61B17/12P A61B17/12P5 A61B17/12P5B1 A61B17/12P5B1S A61B17/12P5H A61B17/12P7 A61B17/12P7Z1 A61B17/12P7Z5 A61F2/04 A61F2/07 A61F2/24R2 A61F5/00B6 A61F5/00B6D A61F5/00B6G A61F5/00B6S2 K61B17/00E K61B17/00L K61B17/00N10 K61B17/00P5 K61B17/00P5E K61B17/00P5H K61B17/00P5L K61B17/00R14 K61B17/00S14 K61B17/00S22 K61B17/064C K61B17/11P K61B19/46H K61F2/04 K61F2/04E K61F2/07D K61F2/30A1W8 K61F210/00Q

US class: 1/1 600/104 600/104P 600/37 604/35 604/35S 604/8 604/8P 606/142 606/142P 606/151 606/151P 606/157 606/157P 606/157S 606/213 606/213P 623/1.11 623/1.110P 623/1.13 623/1.130P 623/1.130S 623/1.15 623/1.150P 623/1.150S 623/2.1 623/2.11 623/2.36 623/2.37 623/2.370P

Classification Explorer

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Forward Citations: WO17072695, WO16203040, WO14158148, WO13106347, WO12175847, WO12112749, WO12112749, WO11119100, WO11103400, WO11100625, WO11100625, WO10115203, USD668335, US9662240, US9662234, US9656049, US9642642, US9622897, US9592123, US9585751, US9585647, US9585646, US9579198, US9579196, US9579103, US9579091, US9572662, US9554787, US9554786, US9545263, US9532803, US9517152, US9510831, US9498196, US9486191, US9468516, US9421098, US9414824, US9414820, US9402757, US9402625, US9402605, US9398914, US9393100, US9393005, US9387634, US9375218, US9364327, US9364209, US9339636, US9339400, US9339197, US9332993, US9332992, US9332976, US9326792, US9320522, US9314329, US9314230, US9295552, US9295469, US9282965, US9282964, US9278019, US9271707, US9259342, US9241696, US9220906, US9173760, US9173644, US9168162, US9149276, US9125740, US9108018, US9101362, US9089674, US9089391, US9089311, US9084594, US9078660, US9060769, US9050087, US9050068, US9044300, US9039757, US9039597, US9034033, US9034032, US9017394, US8979876, US8956388, US8926656, US8926633, US8920446, US8905937, US8893947, US8876690, US8858594, US8821564, US8821534, US8820602, US8808310, US8784447, US8758400, US8758399, US8758398, US8758396, US8728119, US8721718, US8702641, US8690910, US8685046, US8672953, US8657852, US8603136, US8603116, US8597325, US8591396, US8590760, US8585836, US8579932, US8556930, US8529587, US8518057, US8500776, US8486108, US8486092, US8469995, US8454652, US8454650, US8398676, US8398656, US8382779, US8357191, US8323312, US8313497, US8282598, US8236026, US8211186, US8202293, US8202283, US8187164, US8137261, US8118856, US2016262700, US2016038085, US2016022222, US2015257657, US2015083776, US2015057687, US2014358180, US2014350588, US2014228939, US2014066897, US2013253309, US2012022562, US2011245593, US2011196420, US2011184440, US2011118820, US2011046437, US2011040324, US2010280304, US2010268270, US2010114159, US2010094396, US2010087919, US2009157107, US2008312498, US2008215089, FR2976782, EP2910184, EP2413785, EP2413785, EP2248491, EP2248491, EP2241261, DE102012007640, CN105358069, CN104125797, CN101869494,

Abstract:
Source: US2008300672A Devices and methods are disclosed for providing tissue support within the body. A metallic component and a magnetic component are used and allowed to interact through the body of the tissue such that the attractive forces between these components provides the external support needed by that tissue to properly function within its position. Such a technique is described with respect to the particular example of correction of aneurysms.

39) Family number: 30114034 (US2002042564A) © PatBase

Title: DEVICES FOR CREATING COLLATERAL CHANNELS IN THE LUNGS

Priority:

AU20000065308 20000807 AU20050202552 20050610 EP20000952649 20000807
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Family:

Publication number	Publication date	Application number	Application date
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Agent(s): FB RICE; SHELSTON IP; SHELSTON IP PTY LTD; BORDEN LADNER GERVAIS LLP; PRICE NIGEL JOHN KING; BRONCUS TECHNOLOGIES INC BUILDING A8; LEVINE BAGADE LLP; LEVINE BAGADE HAN LLP; BRONCUS TECHNOLOGIES INC C O LEVINE BAGADE HAN 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

International class(IPC 8–9)**:** A61B17/00 A61B17/02 A61B17/064 A61B17/08 A61B17/10 A61B17/11 A61B17/22 A61B17/24 A61B18/00 A61B18/04 A61B18/14 A61B18/18 A61B19/00 A61B5/05 A61B5/08 A61B8/00 A61B8/06 A61B8/12 A61F13/00 A61F2/02 A61F2/04 A61F2/06 A61F2/07 A61F2/20 A61F2/24 A61F2/82 A61F2/84 A61F2/86 A61F2/90 A61F2/91 A61F2/915 A61F2/92 A61F2/94 A61F2/958 A61H1/00 A61L27/00 A61M1/00 A61M1/04 A61M16/00 A61M25/00 A61M29/00 A61M5/00 B05D3/00 (Advanced/Invention); A61B17/00 A61B17/02 A61B17/068 A61B17/08 A61B17/11 A61B17/12 A61B17/22 A61B17/24 A61B17/32 A61B18/00 A61B19/00 A61B8/06 A61F2/02 A61F2/04 A61F2/06 A61F2/07 A61F2/20 A61F2/24 A61F2/82 A61F2/90 A61F2/958 A61L31/02 A61L31/04 A61M1/04 (Advanced/Non–invention); A61B17/064 A61B17/22 A61M16/00 (Core/Invention); A61B17/00 A61B17/068 A61B17/12 (Core/Non–invention); A61B (Subclass/Invention)

International class(IPC 1–7)**:** A61B1/04 A61B1/267 A61B17/00 A61B17/02 A61B17/08 A61B17/10 A61B17/22 A61B17/24 A61B18/04 A61B18/18 A61B19/00 A61B5/00 A61B5/05 A61B5/08 A61B8/06 A61B8/12 A61F2/02 A61F2/04 A61F2/04 A61F2/04 A61F2/06 A61F7/00 A61M1/00 A61M1/04 A61M16/00 A61M29/00 A61M29/02 A61M31/00 A61M35/00 A61M37/00 A62B7/00 G06K

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US class: 128/200.024 128/200.24 128/200.240P 128/200.240S 128/897 128/897S 128/898 128/898S 424/424 424/424S 424/426 424/426P 600/108 600/108S 600/191 600/191S 600/300 600/300P 600/407 600/407P 600/407S 600/431 600/431S 600/439 600/439.9 600/439S 600/459 600/468 600/529 600/529S 600/56 600/560 600/560S 600/561 600/561.1 600/561S 601/2 601/2P 604/103.09 604/20 604/514 604/514P 604/8 604/8P 604/8S 604/915 604/96.01 606/1 606/10 606/108 606/108P 606/13 606/14 606/140 606/140P 606/14P 606/15 606/155 606/155P 606/191 606/191P 606/192 606/192S 606/1P 606/1S 606/27 606/27.7 606/27P 606/27S 606/28 606/33 606/33S 606/41 606/41.1 606/41P 606/41S 606/46 606/47 606/47P 607/96 623/1.12 623/1.15 623/1.150S 623/1.16 623/1.160S 623/1.3 623/1.31 623/1.42 623/1.420S 623/1.45 623/11.11 623/11.110S 623/11.111 623/11.6 623/116 623/23.64 623/23.65 623/23.650P 623/23.650S 623/23.7 623/23.700P 623/23.700S 623/23.72 623/23.75 623/237

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Abstract:
Source: US2002042564A The devices and methods disclosed herein are directed to altering gaseous flow within a lung to improve the expiration cycle of, for instance, an individual having Chronic Obstructive Pulmonary Disease. More particularly, these devices and methods produce and to maintain collateral openings or channels through the airway wall so that expired air is able to pass directly out of the lung tissue to facilitate both the exchange of oxygen ultimately into the blood and/or to decompress hyper−inflated lungs. The devices and methods also disclose locating and selecting a site for creation of a collateral opening.

0) US2005232685A – WRITING UTENSIL

40) Family number: 29779727 (US2005232685A) © PatBase

Title: WRITING UTENSIL

Priority: JP20020138517 20020514 JP20020138518 20020514 US20040511304 20041015 US20090576024 20091008 WO2003JP05952 20030513

Family:

Publication number	Publication date	Application number	Application date
AU2003234799 AA	20031124	AU20030234799	20030513
CN1652948 A	20050810	CN20038010661	20030513
CN1652948 B	20101027	CN20038010661	20030513
EP1504925 A1	20050209	EP20030728064	20030513
EP1504925 A4	20061108	EP20030728064	20030513
JP2004042262 A2	20040212	JP20020138517	20020514
JP2004042263 A2	20040212	JP20020138518	20020514
JP3474875 B1	20031208	JP20020138517	20020514
JP3474876 B1	20031208	JP20020138518	20020514
KR100659799 B1	20061219	KR20047018341	20030513
KR20040108811 A	20041224	KR20047018341	20030513
US2005232685 AA	20051020	US20040511304	20041015
US2010074672 AA	20100325	US20090576024	20091008
US8684617 BB	20140401	US20030511304	20030513
WO03095231 A1	20031120	WO2003JP05952	20030513

Probable Assignee: MITSUBISHI PENCIL CO

Assignee(s):(std)**:** KOYAMA TAKAO ; MITSUBISHI PENCIL CO

Assignee(s): MITSUBISHI PENCIL CO LTD ; MITSUBISHI PENCIL KK ; MITSUBISHI PENCIL KABUSHIKI KAISHA

Inventor(s):(std)**:** KOYAMA TAKAO ; TAKAO KOYAMA

Agent(s): MIYAO AKISHIGE; KANDA MASAYOSHI; FUJIMOTO EISUKE; ROBERT G MUKAI, BURNS DOANE SWECKER AND MATHIS; ROBERT G MUKAI BURNS DOANE SWECKER AND MATHIS; BUCHANAN INGERSOLL AND ROONEY PC

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

International class (IPC 8–9): B43K27/08 B43K5/12 B43K5/18 B43K7/06 B43K7/08 B43K7/10 B43K8/02 B43K8/03 B43K8/04 B43K8/06 C09D11/16 (Advanced/Invention);
B43K7/10 B43K8/04 (Advanced/Non–invention);
B43K27/00 B43K7/00 B43K8/00 C09D11/16 (Core/Invention)

International class (IPC 1–7): B43K27/08 B43K5/12 B43K5/18 B43K7/06 B43K7/10 B43K8/02 B43K8/03 B43K8/04 B43M11/06

CPC: B43K7/06 B43K7/08 B43K7/10 B43K8/04 B43K27/08 C09D11/16 B43K7/005 B43K8/003

European class: B43K27/08 B43K7/00G B43K7/06 B43K7/08 B43K7/10 B43K8/00G B43K8/04 C09D11/16

US class: 401/192 401/192P 401/198 401/198P 401/198S

Classification Explorer

Cited documents: WO0143984 A1, US7070352 BB, US6659672 BA, US6428235 BA, US6390711 BA, US6227741 BA, US6224284 BA, US5013361 A, US4979840 A, US4065215 A, US4065214 A, US2618239 A, US2003072601 AA, US2001012468 AA, JP6581001982, JP6581/1982, JP6270585 A2, JP5912684 U, JP59012684 U1, JP59012684 A2, JP58138699 A2, JP58138699, JP5706581 U, JP57006581 U1, JP57006581 A2, JP56128283 U1, JP56128283 U, JP56128283 A2, JP128283001981, JP128283/1981,

JP12684001984, JP12684/1984, GB2114065 A1, EP1238822 A1, EP1095791 A1, EP0801119 A1, DE1075982 B, DE1067706 B,

Forward Citations: WO17041424, WO05023559, US9566818, US9132692, US7837404, US2016246391, US2014270888, US2008193197, KR101279096, JP4601551, JP2014050970, JP2013000920, JP2012254609, JP2012017361, JP2007245376, JP2007245375, JP2007069427, JP2007069426, JP2006313735, JP2005342950, JP2005246606, GB2440731, CN105109236, CN104985949, CN103978806, CN103536946, CN102971156, CN102844199,

Abstract:
Source: US2005232685A In a writing instrument in which an ink for a writing instrument such as a water−based ink and an oil−based ink impregnated into an ink occlusion body in a barrel is fed to a pen tip in a writing part, in order to provide a writing instrument in which a sign of exhausting the ink can readily and surely be detected, the above writing instrument is provided with a structure in which the ink impregnated into the ink occlusion body in the barrel is fed to the pen tip in the writing part, wherein the ink impregnated into the ink occlusion body described above is fed to the pen tip via an ink guiding feed having visibility, and a sign of exhausting the ink fed from the ink occlusion body is detected by visually observing the ink guiding feed described above via a visible part formed in the barrel.

0) US2002162795A – METHODS AND APPARATUS FOR BIOLOGICAL TREATMENT ...

41) Family number: 28325862 (US2002162795A) © PatBase

Title: METHODS AND APPARATUS FOR BIOLOGICAL TREATMENT OF WASTE WATERS

Priority: US20010271201P 20010223 US20020083995 20020225 US20060336642 20060120 US20040848540 20040517 US20040895432 20040406 US20040572387P 20040518 WO2002IB01849 20020225 US20080971807 20080109 US20080099033 20080407 WO2005US10976 20050331 US20070679789 20070228 US20060778164P 20060301 US20070679789 20070227 WO2007US05313 20070301

Family:

Publication number	Publication date	Application number	Application date
AU2002307836 AA	20020924	AU20020307836	20020225
AU2002307836 BB	20071108	AU20020307836	20020225
AU2005233102 AA	20051027	AU20050233102	20050331
AU2007224179 AA	20070913	AU20070224179	20070301
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US2008017558 AA	20080124	US20070679789	20070227
US2008251439 AA	20081016	US20080971807	20080109
US2008283469 AA	20081120	US20080099033	20080407
US6733662 BB	20040511	US20020083995	20020225
US7018530 BB	20060328	US20040848540	20040517
US7332077 BB	20080219	US20060336642	20060120
WO02072485 A2	20020919	WO2002IB01849	20020225
WO02072485 A3	20030605	WO2002IB01849	20020225
WO05100264 A2	20051027	WO2005US10976	20050331
WO05100264 A3	20061130	WO2005US10976	20050331
WO07103153 A2	20070913	WO2007US05313	20070301
WO07103153 A3	20080717	WO2007US05313	20070301

Probable Assignee: VOST ENVIRONMENTAL TECHNOLOGIES INC

Assignee(s):(std)**:** BRODD GREGORY ; BRODD GREGORY B ; POLLOCK DAVID ; V A I LTD ; POLLOCK DAVID C ; VOST ENVIRONMENTAL TECHNOLOGIES ; VOST ENVIRONMENTAL TECHNOLOGIE

Assignee(s): VOST ENVIRONMENT TECHNOLOGIES INC ; VOST ENVIRONMENT TECHNOLOGIES ; VAI LTD ; VOST ENVIRONMENTAL TECHNOLOGIES INC ; NORMAN ENTERPRISES INC

Inventor(s):(std): BRODD GREGORY ; BRODD GREGORY B ; POLLOCK DAVID ; POLLOCK DAVID C

Inventor(s): DAVID C POLLOCK ; DAVID POLLOCK ; GREGORY BRODD

Agent(s): PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; PIZZEYS PATENT AND TRADE MARK ATTORNEYS; A J PARK; AJ PARK; SMART AND BIGGAR; WALKER ROSS THOMSON ET AL; MATSUNAGA NOBUYUKI; OGOU SOICHI; SATO RYOTARO; GRAYBEAL JACKSON HALEY LLP; JEFFREY J KING, WOODCOCK WASHBURN LLP; JEFFREY J KING WOODCOCK WASHBURN LLP; BLACK LOWE AND GRAHAM PLLC; JEFFREY J KING ESQ BLACK LOWE AND GRAHAM PLLC; KING JEFFREY J; JEFFREY J

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 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

International class (IPC 8–9): B01D19/00 B01D21/01 B01D21/30 B01D29/50 B01D29/60 B01D35/00 B01D35/30 B01D61/14 B01D61/18 B01D63/00 B01D65/02 B01D69/10 B01F3/04 B01F5/06 B03D1/14 B23P11/00 C02F1/20 C02F1/24 C02F1/32 C02F1/44 C02F11/02 C02F11/14 C02F11/18 C02F3/00 C02F3/02 C02F3/06 C02F3/12 C02F3/20 C02F3/22 C02F3/30 C02F3/34 F16L9/18 (Advanced/Invention);
C02F1/24 C02F1/32 C02F3/12 C02F3/20 C02F3/22 (Advanced/Non–invention);
B01D21/30 B01D29/50 B01D29/60 B01D35/00 B01D35/30 B01D61/14 B01D61/18 B01D63/00 B01D65/00 B01D69/00 B01F5/06 B03D1/14 C02F1/44 C02F3/00 C02F3/12 C02F3/30 C02F3/34 (Core/Invention);
C02F3/12 C02F3/20 C02F3/22 (Core/Non–invention)

International class (IPC 1–7): B01D19/00 B01D21/01 B01D63/00 B01D65/02 C02F1/20 C02F1/24 C02F1/32 C02F11/02 C02F11/14 C02F11/18 C02F3/00 C02F3/02 C02F3/06 C02F3/20 C02F3/22 C02F3/30 C02F3/34 F16L9/18

CPC: Y10T29/49826 C02F3/1268 C02F3/02 C02F3/301 C02F3/308 C02F11/185 C02F2301/106 Y02W10/15 B01D61/14 B01D61/18 B01D2313/24 B01D2315/06 B01D2325/28 C02F3/1273 C02F3/226 B01D2313/26 C02F1/20 C02F1/24 C02F1/32 C02F1/5236 C02F1/56 C02F1/76 C02F3/208 C02F11/121

European class: B01D61/14 B01D61/18 C02F11/18C C02F3/12N9 C02F3/12N9B C02F3/20F C02F3/22D C02F3/30B C02F3/30F L01D313/24 L01D313/26 L01D315/06 L01D325/28 M02F1/20 M02F1/24 M02F1/32 M02F1/52F M02F1/56 M02F1/76 M02F11/12C M02F3/02 M02F301/10D

US class: 210/136 210/136S 210/137 210/137S 210/143 210/150 210/151 210/188 210/194 210/196 210/197 210/202 210/220 210/221.1 210/221.100S 210/221.2 210/221.200S 210/232 210/232S 210/239 210/239S 210/532.1 210/608 210/608P 210/610 210/610S 210/614 210/614S 210/620 210/620S 210/621 210/626 210/626S 210/629 210/630 210/630S 210/637 210/90 210/90P 210/97 29/428 29/428S

Classification Explorer

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Forward Citations: WO15186152, WO15132718, WO15123522, WO14110429, WO14066524, WO13001555, WO12064868, WO12064868, WO12047680, WO12047680, WO11155980, WO11146361, WO11130089, WO11075666, WO11066393, WO11066393, WO11066223, WO11034871, WO10148392, WO10147964, WO10138571, WO09091959, WO09023589, WO08141080, WO08083723, WO08016631, WO08004252, WO07130293, WO07053890, WO07044415, USD779632, USD779631, US9670520, US9630147, US9604166, US9573824, US9533261, US9517953, US9469865, US9463991, US9387525, US9375766, US9365437, US9359237, US9359151, US9352979, US9340441, US9333464, US9290399, US9249659, US9238792, US9206057, US9199287, US9193615, US9157058, US9102548, US9085785, US9073764, US9039897, US9023206, US9022224, US8999162, US8956464, US8939435, US8932849, US8932848, US8932847, US8911628, US8910799, US8894858, US8883009, US8858805,

US8858796, US8852921, US8840783, US8835155, US8834723, US8821078, US8816814, US8808540, US8790515, US8758622, US8758621, US8753511, US8723640, US8721889, US8721887, US8715501, US8685252, US8652331, US8623202, US8622222, US8618522, US8599009, US8585900, US8557111, US8551341, US8545700, US8544827, US8518256, US8514067, US8512568, US8506806, US8496828, US8468635, US8440074, US8409439, US8382981, US8377305, US8372284, US8372282, US8372276, US8353426, US8329035, US8323499, US8318028, US8318014, US8318008, US8293098, US8287743, US8282788, US8268176, US8268173, US8236183, US8182687, US8153006, US8152998, US8113390, US8105490, US8101080, US8048306, US8007665, US7972512, US7938966, US7931463, US7927493, US7862719, US7722769, US7718065, US7718057, US7713417, US7708887, US7650938, US7632439, US7614568, US7591950, US7563372, US7563363, US7553410, US7531087, US7527735, US7485228, US7455765, US7387723, US7384573, US7332077, US7300585, US7182872, US7070693, US7060186, US7060186, US7018530, US6946073, US2015182919, US2015140913, US2015010994, US2014329298, US2014263040, US2014251881, US2013206684, US2013199976, US2013134091, US2013068696, US2013015127, US2013001160, US2012309071, US2012279120, US2012174983, US2012097607, US2012094361, US2012031836, US2011218736, US2011212495, US2011207061, US2011198284, US2011192776, US2011180473, US2011168617, US2011119843, US2011017664, US2011006002, US2011005284, US2011000850, US2010288693, US2010288620, US2010272626, US2010264082, US2010237016, US2010237014, US2010187187, US2010089808, US2010038320, US2009234496, US2009188721, US2009159514, US2009038806, US2008302723, US2008257915, US2008240175, US2008223783, US2008190849, US2008128369, US2008121585, US2008093297, US2008017558, US2007251880, US2007138090, US2007045181, US2007045180, US2007045179, US2007045178, US2006266636, US2006243664, US2006231499, US2006147763, US2006096904, US2005224338, US2005218074, US2005115880, US2005056588, US2005045557, US2005023371, US2005023220, US2003201226, TWI579030, RU2505488, RU2472715, KR101306805, JP2014217395, JP2012514972, JP2012165764, JP2009241052, JP2009050750, JP2008072096, ITRM20110340, ITCR20120023, ES2261020, EP1854765, EP1849750, EP1849750, EP1789162, CN103880167, CN103517746, CN103011410, CN103011410, CN102985375, CN102985375, CN102803145, CN102803145, CN102695802, CN102633383, CN102557332, CN102531172, CN102091528, AU2010295747, AU2010260194, AU2010260194, AU2007270701, AU2006312995,

Abstract:
Source: US2002162795A In a vertical shaft bioreactor, improved devices and methods are provided for enhanced secondary and/or tertiary treatment of wastewater, including residential, municipal and industrial wastewater. The devices and methods of the invention are useful for enhanced secondary wastewater treatment, including BOD and TSS removal. Tertiary treatment can alternately or additionally be achieved in the bioreactor with nitrification of ammonia, with nitrification and denitrification, and with nitrification, denitrification, and chemical phosphorus removal. A vertical shaft bioreactor is also provided which achieves thermophilic aerobic digestion and pasteurization of sewage sludges, optionally to produce class A biosolids.

0) US2001011182A – BIOLOGICAL PASSAGEWAY OCCLUSION REMOVAL

42) Family number: 53189340 (US2001011182A) © PatBase

Title: Biological passageway occlusion removal

Priority:

EP19990935335 19990621 EP20100179734 19990621 US19970065118P 19971112
US19980074199P 19980210 US19980074183P 19980210 JP20110018823 20040415
US19980189574 19981111 US19980090243P 19980622 US19980092734P 19980714
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International class (IPC 8–9): A61B10/00 A61B10/02 A61B17/00 A61B17/11 A61B17/12 A61B17/22 A61B17/221 A61B17/24 A61B17/26 A61B17/3205 A61B17/34 A61B18/00 A61B18/04 A61B18/12 A61B18/14 A61B19/00 A61B5/00 A61B6/00 A61F13/20 A61F2/84 A61M25/00 A61M25/01 A61M25/04 A61M25/092 A61M25/10 A61M29/00 A61M29/02 (Advanced/Invention); A61B10/00 A61B10/02 A61B17/00 A61B17/11 A61B17/22 A61B17/34 A61B18/14 A61B19/00 A61B6/00 A61F2/958 A61M25/01 A61M25/10 A61M29/00 (Advanced/Non–invention); A61B10/00 A61B10/02 A61B17/12 A61B17/22 A61B18/00 A61B18/04 A61B18/12 A61B18/14 A61B19/00 A61M29/00 (Core/Invention); A61B17/34 A61B18/14 A61B19/00 A61B6/00 (Core/Non–invention)

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Abstract:
Source: US2001011182A A device for the removal of a blockage in a passageway such as a dialysis graft or in a body passageway includes a catheter for reception and aspiration of the blockage and an occlusion engaging element distal of the distal end of the catheter which occlusion engaging element is supported on a wire that extends through the catheter. At the distal end of the catheter, there is a device such as a multi−wing malecot expansion device that is expanded after the catheter is placed in position so as to block the occlusion from passing around the outside of the catheter. The support wire can be a movable core guide wire which has a braided device on its distal end. When the core is as distal as possible of the distal end of the shell, the braid is in a collapsed minimum diameter state for insertion through the catheter and through the occlusion. Proximal

movement of the core causes the braid to expand to the wall of the graft. Subsequent proximal movement of the entire support wire causes the braid to contact the occlusion forcing the occlusion into the catheter for aspiration and removal.

0) US2001041907A – BLOOD VESSEL OCCLUSION TROCAR HAVING SIZE AND S...

43) Family number: 28144195 (US2001041907A) © PatBase

Title: Blood vessel occlusion trocar having size and shape varying insertion body

Priority: US19910808767 19911217 US19940209280 19940314 US19950479408 19950607 US19950487555 19950607 US19970896625 19970718 US19970896494 19970718 US19970896626 19970718 US20010752455 20010103 US19960714887 19960917 US20010752455 20010103 WO1997US05305 19970401

Family:

Publication number	Publication date	Application number	Application date
AU199724302 A1	19980414	AU19970024302	19970401
US2001041907 AA	20011115	US20010752455	20010103
US5330498 A	19940719	US19910808767	19911217
US5499996 A	19960319	US19940209280	19940314
US5522838 A	19960604	US19950487555	19950607
US5556412 A	19960917	US19950479408	19950607
US5935103 A	19990810	US19970896625	19970718
US5941894 A	19990824	US19970896494	19970718
US5997505 A	19991207	US19970896626	19970718
US6224619 BA	20010501	US19960714887	19960917
WO02056774 A2	20020725	WO2002US00172	20020102
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WO9811831 A1	19980326	WO1997US05305	19970401

Probable Assignee: EDWARDS LIFESCIENCES LLC

Assignee(s):(std)**:** ETHICON INC ; HEARTPORT INC ; HILL JOHN D

Assignee(s): HILL JOHN DONALD ; JOHN D HILL ; EDWARDS LIFESCIENCES LLC

Inventor(s):(std)**:** HILL JOHN D ; HILL JOHN DONALD

Inventor(s): JOHN D HILL

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CH CN CU CZ DE DK EE ES FI FR GB GE GH GR HU IE IL IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SZ TJ TM TR TT UA UG UZ VN YU

International class (IPC 8–9)**:** A61B17/00 A61B17/12 A61B17/135 A61B17/34 A61M25/00 (Advanced/Invention); A61B17/00 A61B17/135 A61M25/00 (Advanced/Non–invention)

International class (IPC 1–7)**:** A61B17/00 A61B17/12 A61B17/34 A61M25/00 A61M29/00

CPC: A61B17/12022 A61B17/12109 A61B17/12136 A61B17/135 A61B17/3415 A61B17/3468 A61B2017/00243 A61B2017/00831 A61B2017/3488 A61M25/0069 A61M2202/0468 A61B17/12036

European class: A61B17/12P A61B17/12P1P A61B17/12P5B A61B17/12P7B A61B17/34E A61B17/34J K61B17/00E1C K61B17/00S K61B17/135 K61B17/34R2B4 K61M202/04N K61M25/00T10A

US class: 604/4.01 604/500 604/907 604/96 604/96.01 604/97.01 606/194 606/194P 606/201 606/203

Classification Explorer

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Forward Citations: WO0119442, WO0067641, USD518177, USD517694, USD499484, US9155828, US8888740, US8758376, US8740970, US8728101, US8597345, US8585722, US8486094, US8137374, US8128589, US8075584, US7993324, US7981070, US7927268, US7867195, US7763037, US7686781, US7670312, US7635376, US7485104, US7468039, US7468027, US7458980, US7427287, US7166097, US7150736, US7018390, US7017581, US6951555, US6945955, US6936056, US6932792, US6926689, US6902556, US6866650, US6840949, US6830579, US6796992, US6767345, US6743196, US6712806, US6666846, US6651671, US6635046, US6613069, US6599266, US6592557, US6589264, US6589206, US6565552, US6550480, US6494211, US6482171, US6478029, US6451004, US6423031, US6398752, US6368340, US6293920, US6270484, US6251093, US6248086, US6231551, US6231544, US6224619, US6210365, US6159178, US6152141, US6135981, US6129713, US6090096, US6056723, US6056720, US6048331, US6042563, US6010531, US5997505, US5971973, US5947919, US5941894, US5935103, US5911702, US5885238, US5868702, US5855590, US5810757, US5800375, US5799661, US5795325, US5792094, US5769863, US5769812, US5765568, US5762624, US5759170, US5755687, US5728066, US5725496, US5702368, US5626607, US5618307, US5536251, US5522838, US5499996, US5425705, US2011172692, US2011130624, US2011106132, US2010106179, US2010094330, US2010094074, US2009307066, US2009247884, US2009076454, US2009018555, US2008097497, US2008097385, US2008065008, US2007282209, US2007260148, US2007239135, US2007198049, US2007179602, US2007160645, US2007135793, US2007118095, US2007041960, US2006212066, US2006100573, US2006047262, US2005269545, US2005177188, US2005159640, US2005149112, US2005148997, US2005124849, US2005090854, US2005085685, US2004220521, US2004162519, US2004073301, US2003208231, US2003199806, US2003114869, US2002161321, US2002056460, US2002038128, GB2411842, GB2411842, EP1086717, EP0737083, DE19927422,

Abstract:
Source: US2001041907A An occluder apparatus for obstructing the flow of blood in a blood vessel has an elongated hollow tubular body having a leading end sized for reception in the blood vessel and includes portion of the body fabricated from a material soluble in blood, and a piercing device for inserting the body through the wall of the blood vessel to extend the leading end into the interior of the blood vessel. An inflatable diaphragm is carried by the body in a collapsed, deflated condition, and the apparatus includes a passage for conducting an inflating fluid from an external source, which is into fluid communication with the interior of the diaphragm, to effect expansion the diaphragm. Elongated openings in the body enable the diaphragm to be released in an inflated state from the body into flexible occluding engagement with the interior wall of the blood vessel about the full circumference of a transverse section thereof.

44) Family number: 48848337 (US2011106019A) © PatBase

Title: DEVICES FOR CLEARING BLOCKAGES IN IN–SITU ARTIFICIAL LUMENS

Priority:

US20070989484P	20071121	US20080099737P	20080924	US20110563405P	20111123
US20100964252	20101209	US20080274937	20081120	US20080099937P	20080925
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Family:

Publication number	Publication date	Application number	Application date
AU2010365031 AA	20120614	AU20100365031	20101222
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WO17019965 A1	20170202	WO2016US44731	20160729

Probable Assignee: ACTUATED MEDICAL INC

Assignee(s):(std): ACTUATED MEDICAL INC ; ACTUATED MEDICAL LNC ; BAGWELL ROGER B ; CRESPO JOSUE ; DEMERS DEBORA L ; MALLEN DANA B ; MEZA GABRIELA

HERNANDEZ ; CRESPO JOSUE R ; FRANKHOUSER PAUL L ; MULVIHILL MAUREEN L ; KLAUS JEFFERY P ; KLAUS JEFFREY P ; PIEZO RESONANCE INNOVATIONS INC ; PARK BRIAN M ; SCRUGGS CASEY A

Assignee(s): NATIONAL SCIENCE FOUNDATION ; NATIONAL INSTITUTES OF HEALTH NIH US DEPT OF HEALTH AND HUMAN SERVICES DHHS US GOVERNMENT ; HERNANDEZ MEZA GABRIELA

Inventor(s):(std)**:** BAGWELL ROGER B ; CLEMENT RYAN S ; CRESPO JOSUE ; CRESPO JOSUE R ; DEMERS DEBORA L ; DILLON DOUGLAS R ; ERDLEY KATHERINE M ; FRANKHOUSER PAUL L ; HERNANDEZ MEZA GABRIELA ; HIGGINS TIMOTHY J ; KLAUS JEFFERY P ; KLAUS JEFFREY P ; MALLEN DANA B ; MEZA GABRIELA HERNANDEZ ; MULVIHILL MAUREEN ; MULVIHILL MAUREEN L ; MULVIHILL MAUREEN M ; PARK BRIAN M ; SCRUGGS CASEY A

Agent(s): FB RICE; BORDEN LADNER GERVAIS LLP; FINDLAY ALICE ROSEMARY; INO SARI; KURASAWA ICHIRO; MATSUSHITA MITSURU; DESHIMARU TAKESHI; KUMAKURA YOSHIO; METZ LEWIS BRODMAN MUST OKEEFE LLC; BARRY L; NEAL P; METZ LEWIS BRODMAN MUST OKEEFE; FRIEDMAN BARRY I 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

International class (IPC 8–9): A61B1/00 A61B1/018 A61B19/00 A61B90/70 A61J15/00 A61M1/00 A61M25/00 A61M25/01 A61M25/092 A61M29/00 A61M3/02 A61M39/00 A61M5/00 A61M5/46 A61N1/30 B08B1/00 B08B5/02 B08B9/00 B08B9/027 B08B9/04 B08B9/043 B08B9/055 E03F9/00 (Advanced/Invention);
A61B19/00 A61J15/00 A61M25/16 A61M27/00 A61M31/00 A61M37/00 A61M39/02 A61M5/00 B08B9/047 (Advanced/Non–invention)

CPC: A61M1/0078 A61M25/0113 A61J15/0026 A61B1/018 A61J15/00 B08B9/0436 Y10T137/6055 Y10T137/789 A61B2017/00477 A61B2017/00876 A61M25/00 A61M2025/0019 A61B90/70 A61B2090/701 A61M25/0082 A61M1/0084 A61M3/0279 A61B17/22 A61J15/0003 A61M39/00 A61M5/00 A61M25/01 A61B17/22012 A61B17/3207 A61B17/320758 A61B17/320783 A61B2017/00685 A61B2017/22014 A61B2017/22079 A61B2017/320733 A61B2217/005 A61B2217/007

European class: A61B1/018 A61B19/34 A61M25/00 B08B9/043M K61B19/34B K61J15/00 K61M25/00K

US class: 1/1 134/166C 134/166R 134/22.11 134/8 137/315.24 137/854 15/104.03 15/104.05 15/93.1 600/29 600/30 600/31 604/249 604/264 604/267 604/267P 604/288.03 604/35 604/43 604/500 604/537 604/540 604/541 604/544 604/8 604/9 604/95.01 623/23.64 623/23.65 623/23.68 623/23.7

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Forward Citations: WO16044821, WO14134011, WO14059340, WO14025367, WO13181387, WO12162230, US9667843, US9597159, US9561337, US9486129, US9480537, US9433427, US9352122, US9308348, US9248221, US9216440, US9101700, US8951355, US8702662, US8601925, US8388759, US2016327137, US2015365571, US2015359509, US2015173731, US2014090194, JP2013188413, ES2401446, EP2906266, EP2714185, DE102013007761, CN104622583,

Abstract:
Source: US2011106019A Devices and methods for the effective clearing of artificial tubes, especially in−situ clearing of artificial tubes in a living being are covered in this disclosure. The devices and methods provide an elongated clearing member having a first end that is coupled to a driving mechanism and having a second working end that is subjected to repetitive motion for clearing blockages within the artificial tube. The elongated clearing member includes either a fixed or an adjustable element that selectively defines the portion of the elongated clearing member that is insertable within the artificial tube. The proximal end of the clearing member is releasably secured to the driving mechanism and the driving mechanisms may comprise a wide variety of repetitive motion drivers such as voice coil motors, piezoelectric actuators, pneumatic actuators, DC motors, etc. These devices/methods may comprise a free−standing console for hands−free operation or may comprise hand−held versions. The distal working end of the clearing member may comprise tips of differing functions, including an irrigation/aspiration feature.

0) US2007129757A – DEVICES, SYSTEMS, AND METHODS FOR OCCLUDING A D...

45) Family number: 34533285 (US2007129757A) © PatBase

Title: DEVICES, SYSTEMS, AND METHODS FOR OCCLUDING A DEFECT

Priority: US20050741823P 20051202 US20060633123 20061201 WO2006US45890 20061201 US20130866649 20130419

Family:

Publication number	Publication date	Application number	Application date
AU2006320507 AA	20070607	AU20060320507	20061201
AU2006320507 BB	20121101	AU20060320507	20061201
CA2630452 AA	20080520	CA20062630452	20061201
CA2630452 C	20110222	CA20062630452	20061201
EP1956986 A2	20080820	EP20060838710	20061201
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WO07064819 A3	20070719	WO2006US45890	20061201
WO07064819 B1	20070907	WO2006US45890	20061201

Probable Assignee: COOK MEDICAL TECHNOLOGIES LLC

Assignee(s):(std)**:** ARMSTRONG DAVID ; COOK INC ; COOK MEDICAL TECHNOLOGIES LLC

Inventor(s):(std)**:** ARMSTRONG DAVID ; ARMSTRONG DAVID N

Inventor(s): DAVID ARMSTRONG

Agent(s): PHILLIPS ORMONDE FITZPATRICK; CASSAN MACLEAN; GARRATT PETER DOUGLAS; BRINKS HOFER GILSON AND LIONE/CHICAGO/COOK; BRINKS HOFER GILSON AND LIONE CHICAGO COOK

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 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 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 ZA ZM ZW

International class (IPC 8–9): A61B1/018 A61B17/00 A61B17/08 A61B5/00 A61M5/00 (Advanced/Invention); A61B17/00 A61B17/03 (Core/Invention)

CPC: A61B1/018 A61B17/00234 A61M5/007 A61B5/6851 A61B17/0057 A61B1/31 A61B17/3468 A61B2017/00004 A61B2017/00575 A61B2017/00579 A61B2017/00588 A61B2017/00606 A61B2017/00619 A61B2017/00641 A61B2017/00654 A61B2017/22038 A61M27/00

European class: A61B17/00P K61B1/31 K61B17/00A K61B17/00P11G K61B17/00P5 K61B17/00P5B K61B17/00P5D K61B17/00P5H K61B17/00P5L K61B17/00P9 K61B17/22G K61B17/34J K61M27/00

US class: 128/887 600/101 600/104 600/431 606/213 606/213P

Classification Explorer

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Forward Citations: WO13109398, WO11151659, WO09146369, WO09126746, WO09025970, US9649115, US9629943, US9572584, US9572556, US9526484, US9492149, US9456813, US9370626, US9351716, US9238090, US9226736, US9211116, US9149262, US9131941, US9113851, US9023094, US8845711, US8840641, US8795328, US8764791, US8715318, US8690911, US8636764, US8535349, US8465516, US8377094, US8317823, US8292918, US8221451, US8206416, US8177809, US7857825, US2017106175, US2012035644, US2011054520, US2011022079, US2010217312, US2009054927, US2008051831, US2007233278, GB2513068, GB2471635, GB2471635, GB2467080, GB2467080, CN105361912, CN103068319,

Abstract:
Source: US2007129757A A method of occluding a defect in a patient is provided. The method includes inserting a placement member, such as a wire guide, into a defect; advancing the placement member to a desired location; inserting the placement member into a lumen in an occluding member, such as a plug or a graft; and advancing the occluding member to the desired location by inserting the placement member into a lumen in a pusher member and pushing the occluding member with the pusher member until the occluding member reaches the desired location. Medical devices and systems for occluding defects are also provided.

46) Family number: 34621184 (US2007213813A) © PatBase

Title: STENT–VALVES FOR VALVE REPLACEMENT AND ASSOCIATED METHODS AND SYSTEMS FOR SURGERY

Priority:

AU20070294199	20070823	AU20090200985	20090312	CA20072657839	20070823
AU20110200683	20110217	AU20110211371	20110811	CA20072659690	20070823
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US20140508574	20141007	EP20110178076	20070823	EP20110178135	20070823
EP20110178145	20070823	EP20110153142	20061222	JP20090527033T	20070823
WO2007EP07413	20070823	WO2006EP12455	20061222	US20150975227	20151218

Family:

Publication number	Publication date	Application number	Application date
AT472985 E	20100715	AT20060841127T	20061222
AT517589 E	20110815	AT20070818037T	20070823
AT547997 E	20120315	AT20070154935T	20070823
AU2006328896 AA	20070628	AU20060328896	20061222
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CA2657839 AA	20090305	CA20072657839	20070823
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WO08028569 A1	20080313	WO2007EP07413	20070823	

Probable Assignee: SYMETIS SA

Assignee(s):(std)**:** SYMETIS SA ; JENAVALVE TECHNOLOGY INC ; SYMETIS S A ; DELALOYE STEPHANE ; JENA VALVE TECHNOLOGY ; VON SEGESSER LUDWIG K

Assignee(s): JENA VALVE TECHNOLOGY INC ; JENAVALVE TECHNOLOGY GMBH ; SYMETIS SAAVENUE DE BEAUMONT 20CH–1012LAUSANNECH ; JVT RESEARCH AND DEVELOPMENT CORP ; JENAVALVE TECHNOLOGY INC WILMINGTON

Inventor(s):(std)**:** DELALOYE STEPHANE ; SEGESSER LUDWIG K VON ; STEPHANE DELALOYE ; VON SEGESSER LUDWIG ; VON SEGESSER LUDWIG K

Inventor(s): VON SEGESSER LUDWIG K 1005 ; DELALOYE STEPHANE 8180 ; DELALOYE STEPHANECH ; LUDWIG K VON SEGESSER

Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD; RIDOUT AND MAYBEE LLP; BARDEHLE PAGENBERG PARTNERSCHAFT MBB PATENTANWAELTE RECHTSANWAELTE; MEISSNER BOLTE AND PARTNER GBR; BEVAN EMMA; MEISSNER BOLTE AND PARTNER; HEPP DIETER; HEPP WENGER RYFFEL AG; NIESWAND MARTINA; MUELLER CHRISTOPH EMANUEL; TRINKS OLE; CARVAJAL Y ISABEL; MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO; MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO PC; FINNEGAN HENDERSON FARABOW GARRETT AND DUNNER LLP; BRIAN P; COOLEY LLP; CRUMP JULIAN RICHARD JOHN ET AL

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 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 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 ZA ZM ZW

International class (IPC 8–9): A61B17/00 A61B17/94 A61F2/02 A61F2/06 A61F2/24 A61F2/82 A61F2/84 A61F2/844 A61F2/90 A61F2/962 A61L31/00 A61M29/00 A61M29/02 A61M39/22 (Advanced/Invention); A61F2/24 A61F2/82 A61F2/95 A61F2/966 A61M29/02 A61M39/22 (Advanced/Non–invention); A61B17/00 A61F2/02 A61F2/06 A61F2/24 A61F2/82 A61L31/00 A61M29/02 (Core/Invention)

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US class: 1/1 623/1.11 623/1.110P 623/1.12 623/1.120S 623/1.15 623/1.150S 623/1.24 623/1.240P 623/1.26 623/1.260S 623/1.31 623/1.310S 623/1.36 623/1.360S 623/2.1 623/2.11 623/2.110S 623/2.18 623/2.180P

Classification Explorer

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Abstract:
Source: US2007213813A Stent−valves (e.g., single−stent−valves and double−stent−valves), associated methods and systems for their delivery via minimally−invasive surgery, and guide−wire compatible closure devices for sealing access orifices are provided.

0) US2002077642A – DEBULKING CATHETER

47) Family number: 28224004 (US2002077642A) © PatBase

Title: DEBULKING CATHETER

Priority:

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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 ME 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

International class (IPC 8–9): A01N1/00 A61B1/00 A61B1/05 A61B1/313 A61B10/00 A61B10/02 A61B10/04 A61B17/00 A61B17/06 A61B17/22 A61B17/29 A61B17/32 A61B17/3207 A61B19/00 A61B5/00 A61B5/02 A61B5/05 A61B5/103 A61B5/117 A61D1/02 A61F2/06 A61G99/00 A61K35/12 A61L31/00 A61M31/00 C12Q1/02 C12Q1/24 C12Q1/68 C40B30/04 C40B40/08 C40B40/10 G01N33/50 G01N33/53 G01N33/566 G06F12/02 G06F17/00 G06F17/30 G06F19/00 G06F19/10 G06F7/00 G06G7/48 G06G7/58 G06Q50/00 (Advanced/Invention); A61B10/00 A61B10/02 A61B10/04 A61B17/00 A61B17/28 A61B17/29 A61B17/32 A61B17/3207 A61B18/14 A61B19/00 A61B90/00 (Advanced/Non–invention); A61B10/00 A61B10/02 A61B17/22 A61B17/32 A61B19/00 A61B5/00 A61F2/06 A61K35/12 A61M31/00 (Core/Invention); A61B17/00 A61B17/28 A61B17/32 (Core/Non–invention); A61B (Subclass/Invention)

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Abstract:
Source: US2002077642A A debulking catheter comprising a debulking assembly for debulking a body lumen. The catheters of the present invention can include a flexible proximal portion coupled to a rigid distal portion. A tissue debulking assembly can be disposed within the rigid portion to debulk the body lumen. In exemplary embodiments, the rigid portion is rotatably coupled to the flexible portion such that rotation or deflection of the rigid portion, relative to the flexible portion, can expose the tissue debulking assembly through a window in the catheter to debulk the body lumen.

48) Family number: 30970545 (US2001032002A) © PatBase

Title: Fluid delivery system and controller for electrosurgical devices

Priority:

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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 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

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A61B17/00 A61B17/29 A61B17/32 A61B18/00 A61B18/14 A61B18/18 A61B19/00 (Advanced/Non–invention);
A61B17/12 A61B18/00 A61B18/04 A61B18/12 A61B18/14 A61B18/18 (Core/Invention);
A61B17/00 A61B18/00 A61B18/14 A61B19/00 (Core/Non–invention);
A61B (Subclass/Invention)

International class (IPC 1–7): A61B17/22 A61B18/00 A61B18/04 A61B18/12 A61B18/14 A61B18/18 A61B19/00 A61F2/00 A61F7/00 A61F7/12 A61M

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Abstract:
Source: US2001032002A The invention provides a system for treating tissue that includes a power measurement device, a flow rate controller coupled to the power measurement device, and an electrosurgical device configured and arranged to provide radio frequency power and conductive fluid to the tissue, wherein the flow rate controller is configured and arranged to modify a flow rate of the conductive fluid to the tissue, based on signals from the power measurement device. The invention also provides methods and devices for modifying flow rate of conductive fluid to tissue based on measurement of radio frequency power delivered to the tissue.

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Title: METHOD AND APPARATUS FOR CREATING A WORKING OPENING THROUGH AN INCISION

Priority:

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Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN 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 NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

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Abstract:
Source: US2001002429A In accordance with the present invention, there is disclosed surgical methods and apparatus for accessing and stabilizing the heart. The methods and apparatus facilitate access to an anastomosis site, allows various instruments or devices to be maneuvered and secured in place, and provide stabilization of the heart. In particular, the apparatus involves a retractor assembly having a pair of opposing blades having a channel adapted to engage an incision in a patient. The retractor blades may have features to cooperatively engage an instrument mount. The instrument mount may hold an instrument, such as a tissue stabilizer, and allows the instrument to be easily maneuvered. The retractor blades may have a number of suture locks for securing sutures used during surgery. The retractor system is particularly useful in accessing, positioning and stabilizing the beating heart for coronary artery bypass graft surgery.

0) US2012046679A – ATHERECTOMY CATHETERS WITH LONGITUDINALLY DISPL...

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Title: ATHERECTOMY CATHETERS WITH LONGITUDINALLY DISPLACEABLE DRIVE SHAFTS

Priority:

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Family:

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Assignee(s): AVINGER INC REDWOOD CITY ; AVINGERINC ; PDL BIOPHARMA INC ; CRG PARTNERS III CAYMAN LP ; CRG PARTNERS III LP ; CRG PARTNERS III PARALLEL FUND A LP ; CRG PARTNERS III PARALLEL FUND B CAYMAN LP

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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 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 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

International class (IPC 8–9): A61B1/00 A61B1/04 A61B1/07 A61B1/313 A61B17/00 A61B17/22 A61B17/221 A61B17/32 A61B17/3207 A61B17/34 A61B19/00 A61B34/20 A61B5/00 A61B5/02 A61B5/05 A61B6/00 A61B6/12 A61M25/01 A61M25/092 A61M25/10 (Advanced/Invention); A61B1/00 A61B17/00 A61B17/22 A61B19/00 A61B34/20 A61B5/00 A61B6/00 A61B6/08 A61B6/12 A61B8/08 A61B90/30 (Advanced/Non–invention)

CPC:

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European class: A61B1/00S4D A61B1/00S4H A61B1/313F A61B17/3207E A61B17/3207R K61B1/00S2 K61B19/52D4 K61B19/52H K61B6/12 K61B6/48L2 K61B8/08H2

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Abstract:
Source: US2012046679A Described herein are atherectomy catheters, systems and methods that include longitudinally displaceable drive shafts that drive actuation of one or more cutters at the distal end of the catheter. The catheters described herein may include one or more imaging sensors for imaging before, during or after cutting tissue. In some variations the imaging sensor may be rotated around the perimeter of the catheter independently of the rotation of the cutter. Also describe herein are imaging catheters that may be used without cutters.

51) Family number: 42256592 (US2002120276A) © PatBase

Title: FILAMENTOUS EMBOLIC DEVICE WITH EXPANSILE ELEMENTS

Priority:

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Family:

Publication number	Publication date	Application number	Application date
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Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN

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International class (IPC 8–9): A61B17/00 A61B17/08 A61B17/12 A61F2/02 A61F6/22 A61L29/00 A61L31/02 A61L31/04 A61L31/14 A61L31/18 A61M25/00 A61M29/00 A61M29/02 A61M31/00 B29C41/02 B29C70/74 (Advanced/Invention); A61B17/00 A61L29/00 A61L31/04 A61M25/00 (Advanced/Non–invention); A61B17/00 A61B17/12 A61L29/00 A61L31/02 A61L31/04 A61L31/14 A61M25/00 B29C70/00 (Core/Invention)

International class (IPC 1–7): A61B17/00 A61B17/12 A61F11/00 A61F2/06 A61L29/00 A61M25/00 A61M29/00 B29C70/74

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European class: A61B17/12P A61B17/12P5B1 A61B17/12P5B1S A61B17/12P7C1 A61B17/12P7C3 A61B17/12P7C5 A61B17/12P7S A61B17/12P7Z3 A61L31/02B A61L31/14F A61L31/18 B29C70/74 K61B17/00A K61B17/00M K61B17/12P2 K61L430/36 L29L31/7542

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Abstract:
Source: US2002120276A An embolization device includes one or more expansible, hydrophilic embolizing elements non−releasably carried along the length of a filamentous carrier that is preferably made of a very thin, highly flexible filament or microcoil of nickel/titanium alloy. At least one expansile embolizing element is non−releasably attached to the carrier. A first embodiment includes a plurality of embolizing elements fixed to the carrier at spaced−apart intervals along its length. In a second embodiment, an elongate, continuous, coaxial embolizing element is non−releasably i− fixed to the exterior surface of the carrier, extending along a substantial portion of the length of the carrier proximally from a distal tip. In either of the embodiments, the embolizing elements may be made of a hydrophilic, macroporous, polymeric, hydrogel foam material. In the second embodiment, the elongate embolizing element is preferably made of a porous, environmentally−sensitive, expansile hydrogel that expands, after a predetermined time delay, in response to a change in an environmental parameter, such as pH or temperature.

0) US2001021820A – SYRINGE SYSTEM FOR TRANSFER OF MEDICATION FROM ...

52) Family number: 29377118 (US2001021820A) © PatBase

Title: SYRINGE SYSTEM FOR TRANSFER OF MEDICATION FROM A PREFILLED MEDICATION CONTAINER

Priority:

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Probable Assignee: BECTON DICKINSON CO

Assignee(s):(std)**:** BECTON DICKINSON AND CO P ; BECTON DICKINSON AND CO PARTIAL INTEREST ; BECTON DICKINSON AND COMPANY P ; BECTON DICKINSON AND COMPANY PARTIAL INTEREST ; BECTON DICKINSON CO ; LYNN LAWRENCE A ; HARDING WESTON ; PURDY EDMUND ROBERT ; WESTON HARDING ; LAWRENCE A LYNN ; HARDING WESTON F ; LAWRENCE A LYNN HARDING WESTON

Assignee(s): BECTON DICKINSON AND CO ; LAWRENCE A LYNN HARDING WESTON PURDY EDMUND ROBERT ; EDMUND ROBERT PURDY ; BECTON DICKINSON AND COMPANY PART INTEREST ; BECTON DICKINSON AND COMPANY ; BECTON DICKINSON AND CO PART INTEREST

Inventor(s):(std)**:** EDMUND ROBERT PURDY ; LARKIN MARK E ; LAWRENCE A LYNN ; WESTON HARDING ; PURDY EDMUND ROBERT ; HARDING WESTON ; HARDING WESTON F ; LYNN LAWRENCE A ; LYNN A ; LARKIN E

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Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG UZ VN YU ZA ZW

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US class: 128/760 128/762 128/912 251/149 251/149.1 251/149.100P 251/149S 251/334 251/349 280/282 301/129 600/573 600/575 604/167.01 604/167.03 604/167.04 604/169 604/187

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Abstract:
Source: US2001021820A A system is provided for the storage and injection of a beneficial agent. The system includes a barrel, the barrel having a loading end and a distal end, and a piston having an elastomeric portion slidably disposed in the barrel bore. A receptacle pre−filled with the beneficial agent is loaded into the loading end of the barrel and is movable with the piston. A tubular flow connector is carried by the piston for connecting the receptacle to a distal chamber of the barrel so that the agent can flow from the storage receptacle into the distal chamber when the piston is retracted away from the distal end of the barrel. A structure is provided along a portion of the receptacle to allow the agent to flow from the receptacle, through the flow connector and into the distal chamber without being inhibited by the development of negative pressure within the receptacle.

53) Family number: 34107538 (US2007016272A) © PatBase

Title: SYSTEMS AND METHODS FOR TREATING A HOLLOW ANATOMICAL STRUCTURE

Priority:

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Family:

Publication number	Publication date	Application number	Application date
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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 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 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 ZA ZM ZW

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International class (IPC 1–7): A61B19/00

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Abstract:
Source: US2007016272A A catheter includes multiple primary leads to deliver energy for ligating a hollow anatomical structure. Each of the primary leads includes a resistive element located at the working end of the catheter. Separation is maintained between the leads such that each lead can individually receive power. The catheter can include a lumen to accommodate a guide wire or to allow fluid delivery. Energy is applied until the diameter of the hollow anatomical structure is reduced to the point where occlusion is achieved. In one embodiment, a balloon is inflated to place the resistive elements into apposition with a hollow anatomical structure and to occlude the structure before the application of energy. The inflated balloon impairs blood flow and facilitates the infusion of saline, or medication, to the hollow anatomical structure in order to reduce the occurrence of coagulation and to improve the heating of the structure by the catheter.

0) US2004098044A – SEALING DEVICE

54) Family number: 15130645 (US2004098044A) © PatBase

Title: SEALING DEVICE

Priority:

NL19890001350	19890529	NL19898901350	19890529	US19910077810	19911022
US19910776281	19911121	US19940187788	19940126	US19910781091	19911022
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Family:

Publication number	Publication date	Application number	Application date
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CA2056629 AA	19911128	CA19902056629	19900529
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US7169168 BB	20070130	US20030645409	20030821
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Probable Assignee: KENSEY NASH CORP

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Assignee(s): WOUTER MATTHIJS MUIJS VAN DE MOER TE ROTTERDAM EN RIENK RIENKS TE UTRECHT ; VAN DE MOER WOUTER MATTHIJS MUIJS ; MEDIFIX R AND D TE PUTTEN BV ; MUIJS VAN DE MOER WOUTER MATTHIJS MUIJS VAN DE MOER WOUTER MATTHIJS ; RIENKS RIENK PUTTEN NL ; MUIJS VAN DE MOER WOUTER MATTHIJS ROTTERDAM NL ; INNOVASC R AND D BV ; INNOVASC R AND D TE ROTTERDAM BV ; MUIJS VAN DE MOER WOUTER MATTHIJS MUIJS VAN DE MOE ; KENSEY NASH CORP EXTON ; MEDIFIX R AND D BV

Inventor(s):(std)**:**

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Agent(s): OGILVY RENAULT LLP SENCRL SRL; CAESAR RIVISE BERNSTEIN COHEN AND POKOTILOW LTD

Designated states: AT AU BB BE BF BG BJ BR CA CF CG CH CM DE DK ES FI FR GA GB HU IT JP KP KR LI LK LU MC MG ML MR MW NL NO RO SD SE SN SU TD TG US

International class (IPC 8–9): A61B17/00 A61B17/03 A61B17/04 A61B17/08 A61B17/12 A61B17/22 A61F2/06 (Advanced/Invention); A61B17/12 A61B17/22 A61F2/06 (Advanced/Non–invention); A61B17/04 (Core/Invention)

International class (IPC 1–7): A61B17/00 A61B17/03 A61B17/08 A61B17/12

CPC: A61B2017/0417 A61B2017/0454 A61B2017/0458 A61B2017/0464 A61B2017/00641 A61B17/0057 A61B2017/00637 A61B2017/00659 A61F2/06

European class: A61B17/00P K61B17/00P11J K61B17/00P7 K61B17/00P9 K61B17/04A20 K61B17/04A40C K61B17/04A40L K61B17/04A50 K61B17/22S1C K61F2/06

US class: 604/285 604/288 606/213 606/213P 606/215 606/232 606/232P

Classification Explorer

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Abstract:
Source: US2004098044A A percutaneously insertable system for sealing punctures in blood vessels includes an element that is percutaneously insertable into and deplorable within a blood vessel, a thread−like member attached to the element that passes through the wall of the blood vessel and arresting element movable on the thread and into engagement with the other surface of the blood vessel thereby to seal the opening.

0) US5704584A – PINCH CLIP OCCLUDER FOR INFUSION SETS

55) Family number: 30162987 (US5704584A) © PatBase

Title: Pinch clip occluder for infusion sets

Priority: US19950410912 19950327 US19960644706 19960510 US19980410912 19980321 US20000561047 20000428 US19980158590 19980922 US19960712577 19960913 WO1996US04096 19960326 WO1999US11150 19990520

Family:

Publication number	Publication date	Application number	Application date
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WO0016827 A1	20000330	WO1999US11150	19990520
WO9630679 A1	19961003	WO1996US04096	19960326

Probable Assignee: ZEVEX INC

Assignee(s):(std)**:** ZEVEX ; ZEVEX INC

Assignee(s): ZEVEX INC SALT LAKE CITY ; ZEVEX A UTAH CORP ; HSBC BANK USA NATIONAL ASSOCIATION

Inventor(s):(std)**:** AL HALBERT ; CHRIS DUMAS ; DAVID J MCNALLY ; MICHAEL CHILD ; SEAN WINTERER ; WINTERER SEAN ; MCNALLY J ; MCNALLY DAVID J ; HALBERT AL ; DUMAS CHRIS ; CHILD MICHAEL

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG UZ VN YU ZW

International class (IPC 8–9): A61J15/00 A61M39/28 A61M5/142 A61M5/168 F16K7/04 (Advanced/Invention); A61J15/00 A61M5/142 A61M5/168 (Advanced/Non–invention); A61J15/00 A61M39/00 A61M5/168 F16K7/00 (Core/Invention); A61M5/142 (Core/Non–invention)

International class (IPC 1–7): A61J15/00 A61M39/28 A61M5/00 A61M5/168 F16K7/04

CPC: A61M5/142 A61M39/281 A61M39/286 A61M5/14232 A61M2202/0482

European class: A61M39/28A A61M39/28F K61M202/04N28 K61M39/28A K61M5/142 K61M5/142G8

US class: 211/60.1 211/601 211/87.01 24/86.81 248/68.1 251/4 251/7 417/279 604/246 604/250 604/251 604/500

Classification Explorer

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US3213882 A, US2858095 A, US2471623 A, EP0483794 A1, EP0423978 A2, EP0150666 A1,

Forward Citations: WO9958187, WO12051432, WO10101783, WO10101783, WO10088512, WO09146045, WO09146045, WO09124091, WO09021950, WO08125838, WO05035431, WO05035431, WO02083204, USD743023, USD672455, USD635664, USD634005, USD536783, USD505199, USD504506, USD503978, USD503799, US9674811, US9657902, US9615731, US9581152, US9572483, US9457158, US9404490, US9402987, US9399094, US9392929, US9333290, US9272129, US9173992, US9056160, US9017296, US9004886, US8950728, US8920144, US8911414, US8910370, US8876787, US8770542, US8764642, US8752436, US8740851, US8739601, US8690829, US8678793, US8672876, US8646309, US8557179, US8551057, US8551056, US8545458, US8539812, US8539672, US8491543, US8486020, US8469933, US8469932, US8425470, US8403291, US8394071, US8377001, US8361024, US8343111, US8251959, US8231566, US8226597, US8225639, US8167841, US8105265, US8034028, US8029469, US7998121, US7998109, US7987722, US7981085, US7976513, US7955297, US7937775, US7922462, US7862535, US7818992, US7815612, US7805978, US7794423, US7753883, US7753881, US7641170, US7611498, US7462170, US7367963, US7178699, US7150727, US7070575, US7032876, US6979311, US6923785, US6871660, US6852094, US6749591, US6659976, US6623447, US6595950, US6494864, US6142979, US2015151105, US2012083737, US2011276000, US2011028899, US2010306986, US2010249722, US2010234809, US2010212407, US2010204661, US2010204651, US2010082001, US2010056976, US2010036322, US2009264857, US2009254034, US2009099498, US2009049919, US2008319402, US2008255502, US2008243058, US2008243057, US2008215014, US2008097340, US2007135766, US2007125802, US2007050898, US2006226321, US2006058740, US2005283121, US2005278054, US2005267418, US2005209552, US2005119625, US2005072806, US2004220542, US2004097885, US2004039347, US2003229309, US2003196693, US2002007156, KR20110025736, KR20110025735, KR101676883, KR101646280, JP2014140771, JP2012519544, JP2011516164, JP2011516162, EP2596819, EP2392842, EP2298389, EP2298388, EP2273165, EP2271386, EP2271386, EP2218476, EP2195538, EP1616588, EP1466646, DE19944343, DE102007036265, CN102065932, CN102065931, AU2011316038, AU2009251680, AU2009231734, AU2005202881,

Abstract:
Source: US5704584A A pinch clip occluder for infusion sets is disclosed including a housing and a clamp movably disposed within the housing to selectively occlude an infusion set. In one embodiment the clamp has at least one arm which moves between first and second positions to pinch closed a silicone tube of the infusion set unless the pinch clip occluder is held in an open position by the user, or placed in a receptacle which will hold the pinch clip occluder in an open position. In another embodiment a plunger is disposed so as to intersect a passage passing through the housing. As the plunger is selectively moved between first and second positions, the flow through a tube in the passage is selectively controlled. Such an arrangement prevents a free−flow condition from occurring through the infusion set.

0) US2013102926A – FLUOROSCOPY–INDEPENDENT, ENDOVASCULAR AORTIC OC...

56) Family number: 49823797 (US2013102926A) © PatBase

Title: FLUOROSCOPY–INDEPENDENT, ENDOVASCULAR AORTIC OCCLUSION SYSTEM

Priority: AU20110242697 20110421 AU20150201978 20150420 US20100326478P 20100421 US20110642465 20110421 US20150853604 20150914 US20130642465 20130107 WO2011US33368 20110421

Family:

Publication number	Publication date	Application number	Application date
AU2011242697 AA	20111027	AU20110242697	20110421
AU2011242697 BB	20150122	AU20110242697	20110421
AU2015201978 AA	20150507	AU20150201978	20150420
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WO11133736 A2	20111027	WO2011US33368	20110421
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Probable Assignee: UNIV MICHIGAN

Assignee(s):(std)**:** ELIASON JONATHAN L ; UNIV MICHIGAN ; US GOVERNMENT ; RASMUSSEN TODD E ; US GOV AIR FORCE ; US AIR FORCE

Assignee(s): THE UNIV OF MICHIGAN ; OF MICHIGAN UNIV ; SECRETARY OF AIR FORCE AS US GOV ; GOVERNMENT OF THE UNITED STATES ; GOVERNMENT OF THE UNITED STATES C O SECRETARY OF THE AIR FORCE ; GOVERNMENT OF UNITED STATES ; GOVERNMENT OF UNITED STATES C O SECRETARY OF AIR FORCE ; THE REGENTS OF THE UNIVERSITY OF MICHIGAN

Inventor(s):(std)**:** ELIASON JONATHAN L ; RASMUSSEN TODD E

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; SMART AND BIGGAR; GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAEUSSER; MARSHALL GERSTEIN AND BORUN LLP; KRIEGEL JEREMY R

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 TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): A61B17/12 A61B19/00 A61B5/00 A61B5/107 A61M25/00 A61M25/04 A61M25/09 A61M25/10 (Advanced/Invention); A61M25/00 A61M25/10 B42D15/00 G01B3/10 (Advanced/Non–invention)

CPC: A61B5/6851 A61B5/1072 A61B5/1075 A61M25/04 A61M25/09 A61M2025/0008 A61M2025/0081 A61M2025/09183 A61M2025/1052 B42D15/0006 B42D15/0086 G01B3/1084 A61B17/12109 A61B17/12031 A61B5/1076 A61B90/39 A61B2090/3937

European class: A61M25/04 A61M25/09 K61M25/00F K61M25/00T30S K61M25/09T1 K61M25/10Z4

US class: 1/1 600/585 600/587 606/194 606/200

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Forward Citations: WO16010996, US9474882, US9248262, US2012053614, EP2961464, AU2014223477,

Abstract:
Source: US2013102926A A system for deploying and selectively inflating a thoracic aortic balloon at a desired location within the thoracic aorta for resuscitative aortic occlusion, inferior to the left subclavian artery, without the aid of fluoroscopy is described. Using CT imaging data, a distance between readily identifiable and consistently located external landmarks of torso extent is measured. Next, using the same data, a second distance from the femoral artery to a desired aortic occlusion location inferior to the left subclavian artery is determined. A correlation between the external measure of torso extent and the desired intra−arterial (i.e. endovascular) distance within the torso is made. Using a nomogram, a calibrated endovascular resuscitative thoracic aortic occlusion system can be positioned to this desired location on any injured individual with end−stage shock and impending cardiovascular collapse or death without the aid of fluoroscopy for delivery or balloon inflation.

0) US2002010480A – SURGICAL SUTURING INSTRUMENT AND METHOD OF USE ...

57) Family number: 30115557 (US2002010480A) © PatBase

Title: Surgical suturing instrument and method of use

Priority:

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US19990368273	19990803	US20000242237P	20001020	US20000242269P	20001020
US20000496305	20000201	US20000192487P	20000327	US20010014991	20011211
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Family:

Publication number	Publication date	Application number	Application date
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WO03096885 A3	20040205	WO2003US15830	20030519	
WO03096909 A1	20031127	WO2003US15869	20030519	

Probable Assignee: ONUX MEDICAL INC

Assignee(s):(std)**:** DVL ACQUISITIONS SUB INC ; DVL ACQUISTION SUB INC ; ONUX MEDICAL INC ; DVL AQUISITION SUB INC ; DVL ACQUISITION SUB INC ; SANCOFF GREGORY E

Assignee(s): PUGSLEY CHARLES H JR ; DVL ACQUISITION SUB INC 100 SOC ; 0NUX MEDICAL INC ; DICARLO JOSEPH A ; FLEET NATIONAL BANK ; FIELD FREDERIC P ; FOGG DOUGLAS A ; PUGSLEY CHARLES H ; GUYER BRETT ; RICE JOHN T ; NATIONAL INST ; NATIONAL INSTITUTES OF HEALTH

Inventor(s):(std)**:** CHARLES H ; CHARLES H JR PUGSLEY ; DOUGLAS A FOGG ; FIELD FREDERIC P ; FOGG DOUGLAS A ; FREDERIC P FIELD ; GREGORY E SANCOFF ; GUYER BRETT ; JOSEPH A DICARLO ; PUGSLEY JR CHARLES H ; RICE JOHN T ; SANCOFF GREGORY E ; PUGSLEY CHARLES H JR ; DICARLO JOSEPH A ; PUGSLEY CHARLES H

Inventor(s): JOHN T RICE ; BRETT GUYER ; DICARLO JOSEPH ; PUGSLEY ; JR CHARLES H ; FOGG DOUGLAS ; FIELD FREDERIC ; SANCOFF GREGORY

Agent(s): PHILLIPS ORMONDE FITZPATRICK; PIZZEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; SMART AND BIGGAR; MARK J PANDISCIO PANDISCIO AND PANDISCIO; WOLF GREENFIELD AND SACKS PC FEDERAL RESERVE PLAZA; JASON HONEYMAN WOLF GREENFIELD AND SACKS PC; WOLF GREENFIELD AND SACKS PC; WOLF GREENFIELD SACKS PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 NE NL NO NZ PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG UZ VN YU ZA ZM ZW

International class (IPC 8–9): A61B17/00 A61B17/04 A61B17/064 A61B17/068 A61B17/12 A61B17/28 A61B17/34 A61F2/08 A61L27/18 A61L27/24 A61L27/34 A61L27/38 A61L27/50 (Advanced/Invention); A61B17/00 A61B17/06 A61B17/068 A61B17/12 A61B17/28 A61F2/00 (Advanced/Non–invention); A61B17/04 A61B17/064 A61B17/068 A61B17/28 A61B17/34 (Core/Invention); A61B17/00 A61B17/06 A61B17/12 A61B17/28 A61F2/00 (Core/Non–invention)

International class (IPC 1–7): A61B0/00 A61B1/00 A61B17/00 A61B17/00 A61B17/04 A61B17/08 A61B17/10 A61B17/12 A61B17/28 A61B17/34

CPC: A61B17/0469 A61B17/0483 A61B17/064 A61B17/068 A61B2017/00004 A61B2017/00827 A61B2017/0498 A61B2017/0646 A61B2017/2929 A61B17/0467 A61B17/0491 A61B17/0644 A61B17/2909 A61B2017/00783 A61B2017/06171 A61B2017/0649 A61F2/0063 A61B17/0482 A61F2002/30107 A61F2210/0009 A61B17/12013 A61B17/062 A61B17/0682 A61F2/08

European class: A61B17/04E A61B17/04G A61B17/04H A61B17/04M A61B17/062 A61B17/064 A61B17/064D A61B17/068 A61B17/068B A61F2/08 A61L27/18 A61L27/34 K61B17/00A K61B17/00R14R K61B17/00R4V K61B17/04C K61B17/04E K61B17/04M K61B17/04W K61B17/064 K61B17/064D K61B17/064M K61B17/064V K61B17/06S2 K61B17/12L2 K61B17/29H K61B17/29J2R K61F2/00G K61F2/00H K61F2/30A1W24 K61F210/00B

US class: 128/898 227/19 606/139 606/139P 606/144 606/144P 606/144S 606/145 606/146 606/148 606/148P 606/219

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Abstract:
Source: US2002010480A A device is disclosed for introducing a flexible elongated element through at least two portions of a subject. In an embodiment, the device includes a proximal end and a distal end, as well as an advancement unit for longitudinally advancing the flexible elongated element toward the distal end such that a proximal end of the elongated element may pass from the distal end of said device with sufficient force to pass through the portions of the subject. The device also includes a securing unit for variably adjusting a securing force applied by the flexible elongated element to secure together the portions of the subject.

0) US2003168052A – COMPRESSED GAS–POWERED PROJECTILE ACCELERATOR

58) Family number: 29049475 (US2003168052A) © PatBase

Title: COMPRESSED GAS–POWERED PROJECTILE ACCELERATOR

Priority:
US20020090810 20020306 US20030656307 20030905 US20070654721 20070118
US20070747107 20070510 US20060347964 20060206 US20050650388P 20050204
US20080011959P 20080122 US20090358184 20090122 US20090503504 20090715
US20120488067 20120604 US20130858685 20130408 US20140293618 20140602

Family:

Publication number	Publication date	Application number	Application date
US2003168052 AA	20030911	US20020090810	20020306
US2004065310 AA	20040408	US20030656307	20030905
US2007017497 AA	20070125	US20060347964	20060206
US2009032003 AA	20090205	US20070654721	20070118
US2009241931 AA	20091001	US20090358184	20090122
US2010154767 AA	20100624	US20090503504	20090715
US2012031386 AA	20120209	US20070747107	20070510
US2013092141 AA	20130418	US20120488067	20120604
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US9476669 BB	20161025	US20140293618	20140602

Probable Assignee: GI SPORTZ DIRECT LLC

Assignee(s):(std)**:** GI SPORTZ DIRECT LLC ; KEE ACTION SPORTS I LLC ; AJ ACQUISITION I LLC ; NAT PAINTBALL SUPPLY INC ; MASSE ROBERT K

Assignee(s): MASSE ROBERT KENNETH ; NATIONAL PAINTBALL SUPPLY INC ; PNC BANK NATIONAL ASSOCIATION ; BANK OF AMERICA NA ; BANK OF AMERICA NA ADMINISTRATIVE AGENT AS ; KEE ACTION SPORTS CANADA INC F K A AJ ACQUISITION CANADA INC ; KEE ACTION SPORTS HOLDINGS INC F K A AJ ACQUISITION HOLDINGS INC ; KEE ACTION SPORTS I LLC F K A AJ ACQUISITION I LLC ; KEE ACTION SPORTS II CANADA LLC F K A AJ ACQUISITION II CANADA LLC ; KEE ACTION SPORTS II LLC F K A AJ ACQUISITION II LLC ; KEE ACTION SPORTS LLC F K A AJ INTERMEDIATE HOLDINGS LLC ; HSBC BANK CANADA ; KEE ACTION SPORTS LLC

Inventor(s):(std)**:** MASSE ROBERT K ; MASSE ROBERT KENNETH

Inventor(s): MASSE ROBERT

Agent(s): VOLPE AND KOENIG PC; VOLPE AND KOENIG P C

International class(IPC 8–9)**:** F41B11/00 F41B11/06 F41B11/32 F41B11/34 F41B11/57 F41B11/71 F41B11/72 F41B11/721 F41B11/723 F41B11/73 (Advanced/Invention); F41B11/00 (Core/Invention)

International class(IPC 1–7)**:** F41B11/00 F41B11/32

CPC: F41B11/71 F41B11/73 F41B11/724 F41B11/62 F41B11/72 F41B11/723 F41B11/57 F41B11/721

European class: F41B11/57 F41B11/62 F41B11/72 F41B11/73

US class: 1/1 124/71 124/71S 124/73 124/73P 124/73S 124/75 124/75P 124/76 124/76P 124/77 124/77P 124/77S 124/80 124/80S

Classification Explorer

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US2010003643, US2009308371, US2009260610, US2009241931, US2009235912, US2009199834, US2009199830, US2009178659, US2009133682, US2009114201, US2009056691, US2009025701, US2009025700, US2008264399, US2008245351, US2008216806, US2008216805, US2008141990, US2008099005, US2008087265, US2008078971, US2008078370, US2008011283, US2007289586, US2007246479, US2007245615, US2007235016, US2007215134, US2007209650, US2007175465, US2007163563, US2007157915, US2007131209, US2007113836, US2007113834, US2007079539, US2007068502, US2007062509, US2007056573, US2007056517, US2007028910, US2007028909, US2007021300, US2007017497, US2006278206, US2006207587, US2006207586, US2006169266, US2006162716, US2006162715, US2006157043, US2006142231, US2006124118, US2006107939, US2006102161, US2006081233, US2006037597, US2006027221, US2006005825, US2006005823, US2005248012, US2005242507, US2005217653, US2005183317, US2005100680, US2005084608, US2005025895, US2004244787, US2004216728, US2004200466, US2004154600, US2004089280, US2003230296, TWI412719, RU2508473, ITPN20100036, GB2413622, GB2413622, EP1754015, CN103712520,

Abstract:
Source: US2003168052A A compressed gas powered projectile accelerator employing "dynamic−regulation" as herein defined; having, in a simple−to−manufacture, easy−to−maintain, durable preferred embodiment; either a slider, reciprocally moveable within a passage, being releasable by the action of a sear and trigger from a cocked position, controlling flow of compressed gas into a breech; or an electric valve performing the same function under the control of an electronic circuit and trigger; and a spring−biased slider, reciprocally moving within said breech and a barrel, controlling the flow of projectiles and compressed gas into said barrel. Said compressed gas−powered projectile accelerator circumvents many of the problems associated with projectile accelerators known to be in the art, capable of reliable semi−automatic and fully−automatic operation using carbon dioxide liquid/gas mixtures.

0) US2005251187A – APPARATUS AND METHOD FOR CONNECTING A CONDUIT T...

59) Family number: 32289124 (US2005251187A) © PatBase

Title: APPARATUS AND METHOD FOR CONNECTING A CONDUIT TO A HOLLOW ORGAN

Priority:

US20040555308P 20040323 US20040635652P 20041214 US20040636449P 20041215
US20050726222 20051014 US20060581081 20061016 US20050300589 20051215
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Family:

Publication number	Publication date	Application number	Application date
AT459294 E	20100315	AT20060816933T	20061016
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ZA200803810 A	20090826	ZA20080003810	20061016	

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Inventor(s):(std)**:** BEANE RICHARD M ; BROWN JOHN A ; BROWN JOHN W ; CRUNKLETON JAMES A ; CRUNKLETON JAMES ALAN ; GAMMIE JAMES S ; SMITH JOSEPH L ; SMITH JOSEPH L JR ; WEGRZYN III THOMAS J ; SMITH JOSEPH ; SINGH HARDEEP ; GAMMIE JAMES ; CRUNKLETON JAMES ; BROWN JOHN ; BOUDREAU RONALD ; BEANE RICHARD ; SMITH JR JOSEPH L ; JR SMITH JOSEPH L ; ALAN CRUNKLETON JAMES ; LIEPERT ANTHONY G

Inventor(s): JOSEPH L SMITH JR ; JOHN W BROWN ; JAMES S GAMMIE ; JAMES ALAN CRUNKLETON ; SMITH JOSEPH LJR ; RICHARD M BEANE

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; RIDOUT AND MAYBEE LLP; GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAEUSSER ANWALTSSOZIETAET; ENGELHARDT AND ENGELHARDT; DR YITZHAK HESS AND PARTNERS; TAKAHASHI HAYASHI AND PARTNER PATENT ATTORNEYS INC; NIXON PEABODY LLP; PANDISCIO AND PANDISCIO PC; PANDISCIO AND PANDISCIO; KAUFMAN MARC S; PANDISCIO MARK J

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 YU ZA ZM ZW

International class (IPC 8–9): A61B17/00 A61B17/02 A61B17/08 A61B17/11 A61B17/32 A61B17/3205 A61B17/34 A61F11/00 A61F2/06 A61M1/00 A61M1/10 A61M1/12 (Advanced/Invention);
A61B17/00 (Advanced/Non–invention);
A61B17/00 A61B17/03 A61B17/32 A61B17/34 A61F2/06 (Core/Invention);
A61B (Subclass/Invention)

International class (IPC 1–7): A61B17/11 A61B17/32

CPC: A61B2017/0038 A61B17/34 A61B2017/00349 A61B2017/0061 A61B17/122 A61B17/1227 A61B2017/1135 A61F2/24 A61B2017/00243 A61B17/0218 A61B17/11 A61B2017/00247 A61B2017/00252 A61B2017/00557 A61B2017/0237 A61B2017/1107 A61B2018/00392 A61M1/1008 A61M2205/04 A61M2210/125 A61M2209/04 A61F2/064 A61B17/320016 A61M1/122 A61B17/32053 A61M1/101

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US class: 600/16 600/235 604/8 604/8P 606/108 606/108P 606/153 606/153P 606/153S 606/155 606/167 606/167P 606/180 606/180P 606/184 606/185 606/185P 623/1.35

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Abstract:
Source: US2005251187A An apparatus and method for connecting a first conduit to the heart without the need for cardiopulmonary bypass. The first conduit may then be attached to a second conduit that has a prosthetic device interposed. The second conduit may be connected to the aorta prior to the first conduit being attached to the heart. The prosthetic device may be a prosthetic valve or a pump, for example. The apparatus of the present invention includes an implantable connector with first conduit component, a retractor expansion component, a coring component, and a pushing component. The retractor expansion component is slide−ably coupled to the coring component. The retractor expansion component serves to seat against and separate the inside apical wall of the left ventricle so that the coring component may cut cleanly through the myocardium to form a tissue plug without leaving any hanging attachments to the inside walls. By remaining seated against the inside wall, the retractor expansion component follows the tissue plug into the coring component. The surgeon applies force and rotary motion to the pushing component sufficient to cut the tissue plug and implant the prosthetic component.

0) US2004158316A – INTRAVASCULAR BALLOON OCCLUSION DEVICE AND METH...

60) Family number: 29989451 (US2004158316A) © PatBase

Title: INTRAVASCULAR BALLOON OCCLUSION DEVICE AND METHOD FOR USING THE SAME

Priority: US19960635415 19960426 US19970959910 19971029 US20050145826 20050606 US20030470593 20030318 US19990432624 19991103 US19990432535 19991103 WO1997US05135 19970331

Family:

Publication number	Publication date	Application number	Application date
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AU723236 B2	20000824	AU19970025958	19970331
CA2249425 AA	19980921	CA19972249425	19970331
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EP0901393 B1	20031210	EP19970917700	19970331
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US2005228430 AA	20051013	US20050145826	20050606
US6464664 BA	20021015	US19990432535	19991103
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US6966903 BB	20051122	US20030470593	20030318
WO9740881 A1	19971106	WO1997US05135	19970331

Probable Assignee: MEDTRONIC INC

Assignee(s):(std)**:** MEDTRONIC INC

Assignee(s): ROM PAUL F ; JONKMAN KENNETH R

Inventor(s):(std)**:** JONKMAN R ; KENNETH R JONKMAN ; PAUL F ROM ; ROM F ; ROM PAUL F ; JONKMAN KENNETH R

Inventor(s): JONKMAN KENNETH ; ROM PAUL

Agent(s): FB RICE; SMART AND BIGGAR; MEDTRONIC INC; JEFFREY J; TOM

Designated states: AT AU BE CA CH DE DK ES FI FR GB GR IE IT JP LU MC NL PT SE

International class (IPC 8–9): A61B17/12 A61F2/958 A61M25/00 A61M25/10 A61M29/00 (Advanced/Invention); A61B17/32 A61M25/00 (Advanced/Non–invention); A61B17/32 (Core/Non–invention)

International class (IPC 1–7): A61B17/12 A61F2/06 A61M25/00 A61M25/10 A61M29/00 A61M31/00

CPC: A61B17/32053 A61M2025/1052 Y10S623/904 A61B17/12109 A61B17/12136 A61M25/1011

European class: A61B17/12P5B A61B17/12P7B A61M25/10D K61B17/3205G K61M25/10Z4

US class: 604/101.01 604/509 604/96.01 606/108 606/108S 606/194 606/194P 623/1.23 623/1.230P 623/904

Classification Explorer

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Forward Citations: WO05089665, WO0197740, WO0197740, US9669191, US9662480, US9662118, US9655755, US9561345, US9526504, US9492637, US9399118, US9265632, US9265512, US9259215, US9241699, US9138527, US9126018, US9011364, US8986248, US8870805, US8858490, US8821849, US8784355, US8740834,

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Abstract:
Source: US2004158316A An intravascular balloon occlusion device according to the invention is shown. The device is ideally suited for use in a coronary artery bypass graft procedure. The device includes a body having at least one selectively inflated balloon provided on the distal end thereof. Preferably, the body is a closed end body so that fluid can only flow from the proximal end of the body into the balloon. In use, the distal end of the body and the balloon are inserted into an aperture provided in the aorta. The balloon is inflated and then the device is retracted until the balloon seats against the incision or aperture in the aorta, thereby effectively sealing the aperture from the blood flow through the aorta, but not occluding blood flow through the body of the aorta itself. Next, the graft vessel is telescopically positioned on the occlusion device and mounted to the aorta. Once the vessel is secured thereto, the balloon is deflated and then the occlusion device is retracted from both the aorta and the graft vessel. Finally, the second end of the graft vessel is mounted to the appropriate coronary artery.

0) US4838855A – BLOOD ASPIRATION ASSEMBLY AND METHOD

61) Family number: 3045871 (US4838855A) © PatBase

Title: BLOOD ASPIRATION ASSEMBLY AND METHOD

Priority: US19870080406 19870731 US19890302835 19890127 US19900594677 19901010 US19920935907 19920827 US19900540605 19900619 US19910760468 19910917 US19930155863 19931123 US19930043636 19930401 US19950371127 19950111 US19940266747 19940628

Family:

Publication number	Publication date	Application number	Application date
DE3855267 D1	19960613	DE19883855267	19880801
DE3855267 T2	19961121	DE19883855267T	19880801
DE69116006 D1	19960215	DE19916016006	19910619
DE69116006 T2	19960620	DE19916016006T	19910619
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EP0301913 A3	19890315	EP19880307080	19880801
EP0301913 B1	19960508	EP19880307080	19880801
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JP3103141 B2	20001023	JP19910147375	19910619
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JP64058241 A2	19890306	JP19880188551	19880729
US4838855 A	19890613	US19870080406	19870731
US5114400 A	19920519	US19900540605	19900619
US5178607 A	19930112	US19900594677	19901010
US5324256 A	19940628	US19930043636	19930401
US5447495 A	19950905	US19940266747	19940628
US5466219 A	19951114	US19920935907	19920827
US5531672 A	19960702	US19950371127	19950111
US5562639 A	19961008	US19930155863	19931123

Probable Assignee: LYNN LAWRENCE A COLUMBUS OHIO US

Assignee(s):(std)**:** COLE JAMES E ; LYNN LAWRENCE A ; ROORENSU EE RIN

Assignee(s): LYNN LAWRENCE A COLUMBUS OHIO US ; GUTHRIE ROBERT B

Inventor(s):(std)**:** GUTHRIE ROBERT B ; ROORENSU EE RIN ; COLE JAMES E ; LYNN LAWRENCE A

Designated states: DE FR GB IT NL SE

International class (IPC 8–9)**:** A61B5/15 A61B5/153 A61B5/155 A61M31/00 A61M37/00 A61M39/02 A61M39/04 A61M5/178 (Advanced/Invention); A61M5/31 (Advanced/Non–invention); A61B5/15 A61M39/02 A61M5/178 (Core/Invention); A61M5/31 (Core/Non–invention)

International class (IPC 1–7)**:** A61B5/14 A61B5/15 A61M31/00 A61M37/00 A61M39/04 A61M5/178

CPC: Y10S604/905 A61B5/15003 A61B5/150221 A61B5/150244 A61B5/153 A61M2005/31506 A61M2005/31508 A61B5/150236 A61M2005/3121 A61B5/150213 A61B5/150343 A61B5/150351 A61M39/02 A61B5/150992 A61M39/045

European class: A61B5/14B A61B5/14B8 A61M39/02 A61M39/04B K61M5/315B1C2 K61M5/315B1E K61M5/31A6C

US class: 128/762 128/764 128/765 128/766 600/575 600/577 600/578 600/579 604/122 604/183 604/201 604/205 604/208 604/244 604/248 604/280 604/283 604/35 604/38 604/4

604/411 604/49 604/523 604/53 604/540 604/6.12 604/86 604/88 604/905

Classification Explorer

Cited documents: WO9100115 A1, WO9011103 A2, WO9001349 A1, WO8801846 A1, US5167648 A, US5158554 A, US5135489 A, US5084034 A, US5059168 A, US5002066 A, US5000745 A, US4998927 A, US4989606 A, US4986278 A, US4981469 A, US4981140 A, US4935010 A, US4920970 A, US4911705 A, US4865583 A, US4838877 A, US4838855 A, US4834716 A, US4834152 A, US4830013 A, US4799494 A, US4796644 A, US4776843 A, US4763648 A, US4759756 A, US4758225 A, US4752292 A, US4721506 A, US4710180 A, US4699612 A, US4685904 A, US4677017 A, US4675017 A, US4675007 A, US4675005 A, US4675004 A, US4666438 A, US4654034 A, US4650475 A, US4650468 A, US4645491 A, US4634427 A, US4601703 A, US4588403 A, US4578063 A, US4496350 A, US4457747 A, US4405320 A, US4364383 A, US4335717 A, US4276880 A, US4219912 A, US4219021 A, US4214779 A, US4197848 A, US4058121 A, US4051852 A, US4022205 A, US4014328 A, US4013064 A, US3986508 A, US3406685 A, US3344785 A, US3291151 A, US3067742 A, US3057350 A, US2989053 A, US2922420 A, US2893395 A, US2847996 A, US2842124 A, US2646042 A, US2357238 A, US1683877 A, JPS5983031, JP59083031 A2, FR2439022 A1, FR2049513 A5, FR1373027 A, EP0367549 A2, EP0208975 A2, EP0111723 A1, EP0050459 A1, DE8519874 U, DE2945869 A1, AU1394570 A1,

Forward Citations: WO9961093, WO9916354, WO9641649, WO9531230, WO9530370, WO9415665, WO9012606, WO9012606, WO15006183, WO14209686, WO08135475, WO0247756, WO02066595, WO0112249, USRE43142, USRE40428, USRE39334, USRE37357, USRE35841, USD767124, USD765837, USD757933, USD737436, USD734868, USD720451, USD695398, USD674088, USD669980, USD641080, USD605755, USD594117, USD582550, USD582033, USD577822, USD577821, USD577438, USD574491, USD574490, USD572820, USD571464, USD571006, USD570477, US9586036, US9522097, US9498598, US9381320, US9357950, US9339438, US9320881, US9320505, US9283324, US9149573, US9132063, US9114915, US9113850, US9079692, US9074920, US9044585, US8998875, US8979792, US8961475, US8905994, US8852145, US8808254, US8753325, US8753317, US8753290, US8752598, US8715223, US8702750, US8702677, US8684994, US8647326, US8647312, US8647308, US8641681, US8608723, US8608686, US8523831, US8523830, US8512278, US8496624, US8475416, US8435210, US8425552, US8403894, US8377039, US8361011, US8343112, US8328767, US8317743, US8267911, US8246552, US8231587, US8231567, US8197749, US8177761, US8172825, US8137307, US8100866, US8092385, US8079997, US8070739, US8066688, US8021325, US8016809, US8002737, US7998122, US7998106, US7985211, US7947032, US7922707, US7921625, US7879018, US7867204, US7842026, US7824343, US7776011, US7753891, US7749189, US7744573, US7731679, US7731678, US7713250, US7699828, US7662110, US7635357, US7635344, US7615035, US7608042, US7569047, US7510545, US7479131, US7479124, US7470261, US7445611, US7314061, US7306579, US7303542, US7223253, US7114701, US7097633, US7044941, US7033339, US7025744, US7008406, US6994699, US6964675, US6957745, US6945417, US6936031, US6904662, US6890342, US6837858, US6835193, US6827709, US6796963, US6796957, US6699225, US6699215, US6695829, US6681946, US6669681, US6635043, US6626309, US6610041, US6605076, US6595979, US6572591, US6571837, US6569125, US6540732, US6524326, US6524295, US6511457, US6491667, US6478781, US6447498, US6387086, US6382442, US6378714, US6378576, US6344033, US6306104, US6287265, US6269704, US6261282, US6261266, US6228065, US6217568, US6213996, US6210624, US6209738, US6206861, US6193697, US6189580, US6183448, US6177037, US6171287, US6162206, US6159164, US6152900, US6126618, US6093156, US6056727, US6048335, US6027459, US5971965, US5961472, US5957898, US5954104, US5947932, US5947911, US5924584, US5891129, US5871500, US5865766, US5836923, US5833674, US5820601, US5807353, US5797897, US5788675, US5778877, US5776125, US5772608, US5769825, US5759160, US5743886, US5715833, US5697915, US5665078, US5658260, US5643218, US5639810, US5620008, US5597536, US5575769, US5552118, US5549651, US5549584, US5549569, US5549547, US5531672, US5522804, US5478327, US5474546, US5453089, US5429614, US5417673, US5403290, US5389070, US5374401, US5361754, US5336164, US5301686, US5282982, US5265621, US5207639, US5203775, US5197485, US5141501, US5135489, US5071409, US5046509, US5010930, US2016199633, US2015208973, US2014228778, US2014114286, US2012150143, US2011301539, US2011217212, US2011213341, US2011146842, US2011077480, US2011044850, US2011022028, US2010272379, US2010228233, US2010114075, US2010049170, US2009287115, US2009218535, US2009177169, US2009177168, US2009171299, US2009156922, US2009093757, US2009084446, US2009082750, US2009076414, US2009062766, US2009008393, US2008306469, US2008306424, US2008275324, US2008228149, US2008177250, US2008172002, US2008108956, US2008108955, US2008108954, US2008086097,

US2008051733, US2008048144, US2008033399, US2008009789, US2007276322, US2007265578, US2007260176, US2007255226, US2007255203, US2007249996, US2007244441, US2007179474, US2007179407, US2007167910, US2007149896, US2007119508, US2007106228, US2007016164, US2006229584, US2006129112, US2006079834, US2006079809, US2006064124, US2005256500, US2005209637, US2005192537, US2005187532, US2005159710, US2005096563, US2005027233, US2004210162, US2004204689, US2004199126, US2004158201, US2004153021, US2004092886, US2004082899, US2004078025, US2004068239, US2004068238, US2004059228, US2004019310, US2003233083, US2003176813, US2003144607, US2003105452, US2003032919, US2002193752, US2002169426, US2001053922, JP3855964, JP2016147077, JP2004338055, JP2002095739, EP2805675, EP2803868, EP1723979, EP1723979, EP1648307, EP1648307, EP1319367, EP1082159, EP1064961, EP0808211, EP0808211, EP0801537, EP0801537, EP0737058, EP0725658, EP0725658, EP0645980, EP0645980, EP0627893, EP0627893, EP0625333, EP0575917, EP0575917, EP0575916, EP0575916, DE4220309, DE4220301, DE19801276, DE102005003516, DE10160703, AU783701, AU781938, AU635736, AU2008302455,

Abstract:
Source: US4838855A A blood aspiration assembly (20) comprises proximal (22), intermediate (50) and distal tubing (24), a reservoir (61) having an adjustable volume, an aspirator receiver (106) and a two−way valve (44). The reservoir (61) can be locked into selected withdrawal and discharge positions. The aspirator receiver (106) is connected between the distal and the intermediate tubing (24,50). The receiver (106) comprises a rigid casing (111) a resilient frusto conical plug (136) and a blood aspiration chamber (110) with a smooth liquid flow surface (116). The valve (44) and reservoir (61) can be operated to draw blood from the patient into the intermediate tube (50) to remove resident fluid from the aspiration chamber (110). A clamp or valve (154) can block intermediate tube (50) flow. The reservoir (61) has a predetermined fluid volume equal to that volume which, when withdrawn into the reservoir from the intermediate tube (50), results in the replacement of essentially all resident fluid in the aspiration chamber (110) and that portion of the apparatus distal to the aspiration chamber by essentially undiluted blood. A needle from a separate syringe is inserted through the plug (136) into the aspirator chamber (110) and a blood sample withdrawn. The tube clamp (154) can be opened and intravenous fluid driven from the reservoir (61) back through the flow channels distal thereto, to force the resident blood back into the patient and fill the assembly with intravenous fluid.

0) US2011264229A – SACROILIAC JOINT FIXATION SYSTEM

62) Family number: 49290149 (US2011264229A) © PatBase

Title: SACROILIAC JOINT FIXATION SYSTEM

Priority:

AU20110205597	20110113	AU20140204494	20140717	JP20120548960	20110113
CN201180001537	20110113	AU20160204937	20160714	EP20110733183	20110113
US20110135381	20110701	US20110236411	20110919	US20110520956P	20110617
US20100335947P	20100113	JP20150042238	20150304	JP20120548960T	20110113
JP20150042238	20110113	JP20160119567	20160616	US20120475695	20120518
US20110998712	20110113	US20130946790	20130719	US20110998712	20110523
US20130800120P	20130315	US20120674277P	20120720	US20120674130P	20120720
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US20130798225P	20130315	US20130859134P	20130726	US20120344876	20120918
US20150681882	20150408	US20160061524	20160304	US20160178244	20160609
WO2011US00070	20110113	WO2012US55892	20120918	WO2012US42823	20120615
US20160178291	20160609	US20160216472	20160721		

Family:

Publication number	Publication date	Application number	Application date
AU2011205597 AA	20110721	AU20110205597	20110113
AU2011205597 BB	20140417	AU20110205597	20110113
AU2012312658 AA	20130328	AU20120312658	20120918
AU2014204494 AA	20140807	AU20140204494	20140717
AU2014204494 BB	20160414	AU20140204494	20140717
AU2016204937 AA	20160804	AU20160204937	20160714
BR112012017259 A2	20160823	BR20121117259	20110113
CA2787152 AA	20120713	CA20112787152	20110113
CA2849095 AA	20140318	CA20122849095	20120918
CN102361601 A	20120222	CN201180001537	20110113
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EP2758002 A2	20140730	EP20120834000	20120918
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HK1165984 A1	20160422	HK20120106763	20120710
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JP2013517052 T2	20130516	JP20120548960T	20110113
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TW201228647 A	20120716	TW20110114376	20110426	
US2011264229 AA	20111027	US20110135381	20110701	
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US2015209087 AA	20150730	US20150681882	20150408	
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US2016278818 AA	20160929	US20160178244	20160609	
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US9381045 BB	20160705	US20120475695	20120518	
US9421109 BB	20160823	US20130945053	20130718	
WO11087912 A1	20110721	WO2011US00070	20110113	
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WO13043584 A3	20130516	WO2012US55892	20120918	
WO14146018 A1	20140918	WO2014US30889	20140317	

Probable Assignee: JCBD LLC

Assignee(s):(std)**:** DONNER CHRISTOPHER THOMAS ; DONNER EDWARD JEFFREY ; JCBD LLC

Inventor(s):(std)**:** DONNER CHRISTOPHER THOMAS ; DONNER EDWARD JEFFREY ; EDWARD JEFFREY DONNER ; JEFFREY DONNER EDWARD ; RAYMOND SPANKY ALLEN

Agent(s): SPRUSON AND FERGUSON; SMART AND BIGGAR; WILLIAMS GARETH OWEN; DURAN CARLOS; REINHOLD COHN AND PARTNERS; JOSHUA J; SAMUEL WADE; POLSINELLI PC; MILES CRAIG R; JOHNSON SAMUEL WADE ET AL; MCCAY MICHAEL 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

International class (IPC 8–9): A61B17/00 A61B17/02 A61B17/16 A61B17/17 A61B17/58 A61B17/68 A61B17/70 A61B17/80 A61B17/84 A61B17/86 A61B17/90 A61B17/92 A61F A61F2/28 A61F2/30 A61F2/32 A61F2/44 A61F2/46 (Advanced/Invention); A61B17/00 A61B17/02 A61B17/17 A61B17/70 A61B17/86 (Advanced/Non–invention); A61F (Subclass/Invention)

CPC: A61F2/44 A61B17/7074 A61F2002/30382 A61F2002/304 A61F2002/30401 A61F2002/30428 A61F2002/30484 A61F2002/30504 A61F2002/30509 A61F2002/30579 A61F2002/30601 A61F2002/30774 A61F2002/30828 A61B17/844 A61F2002/3055 A61F2002/4623 A61B17/1739 A61B17/0218 A61F2002/30433 A61B2017/0225 A61F2002/4622 B33Y80/00 A61B17/1626 A61B17/68 A61B17/025 A61B17/1757

A61B17/7035 A61B17/7043 A61B17/7044 A61B17/863 A61B17/8645 A61B2017/0046 A61F2/4455 A61F2/4611 A61F2002/30163 A61F2002/4687 A61F2310/00017 A61F2310/00023 A61F2310/00179 A61F2310/00359 A61B17/7055 A61F2/30988 A61F2002/30387 A61F2002/30622 A61F2002/30642 A61F2002/30879 A61F2002/30883 A61F2002/30995

European class: A61B17/17S A61B17/70 A61F2/30Y K61B17/02J K61B17/70B7 K61F2/30A4F K61F2/30Y3

US class: 1/1 606/246 606/281 606/286 606/99 623/17.11 623/17.110P 623/18.11 623/18.110P

Classification Explorer

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Abstract:
Source: US2011264229A A sacroiliac joint fixation fusion system that provides a method of fixation and fusion of the sacroiliac joint and a sacroiliac joint implant which upon placement within the articular region of the sacroiliac joint facilitates stability and fusion of the sacroiliac joint.

63) Family number: 29367069 (US2003009125A) © PatBase

Title: ULTRASONIC DEVICES AND METHODS FOR ABLATING AND REMOVING OBSTRUCTIVE MATTER FROM ANATOMICAL PASSAGEWAYS AND BLOOD VESSELS

Priority:

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Probable Assignee: ADVANCED CARDIOVASCULAR SYSTEM

Assignee(s):(std)**:** ADVANCED CARDIOVASCULAR SYSTEMS INC ; BAXTER INT ; SONICSTAR INTERNATIONAL LTD ; SONICSTAR INT LTD ; SIEGEL ROBERT J ; ADVANCED CARDIOVASCULAR SYSTEM

Assignee(s): ADVANCED CARDIOVASCULAR SYSTEMS ; SONICSTAR INT ; CYBERSONICS INC ; FIFTH THIRD BANK ; MILLS TIMOTHY C ; NITA HENRY ; SONICSTAR INT LTD A CORP OF NY ; BAXTER INTERNATIONAL INC DEERFIELD ILL 60015 US ; CLEANING TECHNOLOGIES GROUP LLC ; PFLUEGER RUSSELL ; BOND GEOFFREY ; DE CASTRO EUGENE ; GESSWEIN DOUGLAS H ; PASSAFARO JAMES D ; BAXTER INT INC ; BAXTER INT INC A CORP OF DE ; BAXTER INT INC A CORP OF DELAWARE ; BAXTER INTERNATIONAL INC DEERFIELD ; BACICH STEVEN ; BAXTER INTERNATIONAL INC

Inventor(s):(std)**:** BACICH STEVEN ; BOND GEOFFREY ; DECASTRO EUGENE ; DE CASTRO EUGENE ; GESSWEIN DOUGLAS ; MILLS TIMOTHY C ; NITA HENRY ; GESSWEIN DOUGLAS H ; MILLS TIMOTHY ; PASSAFARO JAMES ; MILLS C ; PASSAFARO JAMES D ; SIEGEL ROBERT ; SIEGEL ROBERT J ; PFLUEGER RUSSELL ; SIEGEL J

Inventor(s): PFLUEGER RUSSELL LAGUNA NIGUEL CA 92677 US ; NITA HENRII ; NITA HENRY LAKE FOREST CA 92630 US ; FURUEGAA RATSUSERU

Agent(s): SIM AND MCBURNEY; FULWIDER PATTON LEE AND UTECHT LLP

Designated states: AT BE CA CH DE DK ES FR GB GR IE IT JP LI LU MC NL PT SE

International class (IPC 8–9): A61B17/22 A61B18/00 A61B18/24 A61M25/00 A61M25/10 A61N7/00 G10K11/24 (Advanced/Invention); A61B17/00 A61B17/32 A61B18/00 A61B18/12 A61B19/00 A61F2/00 A61M1/00 A61M29/02 A61M3/02 (Advanced/Non–invention); A61B17/22 A61B18/00 (Core/Invention); A61B17/00 A61B17/32 A61B18/00 A61B19/00 A61F2/00 A61M1/00 A61M3/00 (Core/Non–invention)

International class (IPC 1–7): A61B17/20 A61B17/22 A61B17/32 A61B17/36 A61B17/70 A61B18/00 A61M25/10 A61M29/02 A61M31/00 A61N7/00 G10K11/24

CPC: A61B18/1206 A61B2017/00119 A61B2017/00146 A61B2017/00973 G10K11/24 A61B2017/22084 A61B90/39 A61B2017/22014 A61F2002/30092 A61F2210/0014 A61B18/245 A61M25/104 A61B17/22012 A61B17/320758 A61B2017/00101 A61B2017/00477 A61B2017/00849 A61B2017/00867 A61B2017/22018 A61B2017/22038 A61B2017/22039 A61B2017/22041 A61B2017/320072 A61B2017/320088 A61B2018/00011 A61B2018/00029 A61B2217/005 A61B2217/007 A61F2002/30093 A61F2002/30102 A61F2210/0019 A61F2210/0042 A61M3/0279 A61M2025/0183

European class: A61B17/22B2 A61B18/24B G10K11/24 K61B17/00C1T6 K61B17/00C2A K61B17/00C4C2 K61B17/00K K61B17/00S12 K61B17/00S4T K61B17/00V K61B17/22B2B K61B17/22B2B2S K61B17/22G K61B17/22G1 K61B17/22G2 K61B17/22S2 K61B17/3207R K61B17/32U2 K61B17/32U6 K61B18/00A2 K61B18/00A2E K61B18/12G K61B19/54 K61B217/00Q16 K61B217/00Q18 K61F2/30A1W20 K61F2/30A1W20B K61F2/30A1W20D6 K61F210/00D K61F210/00D2 K61F210/00D4F K61M1/00T K61M25/01M K61M25/10P K61M3/02H

US class: 128/24AA 128/662.03 128/662.06 128/898 600/459 600/466 601/2 601/3 601/4 604/22 604/22P 604/48 604/49 604/500 604/508 604/509 604/515 604/517 604/52 604/523 604/97.01 606/1 606/128 606/159 606/159S 606/169 606/171 606/41 607/122 607/97

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Abstract:
Source: US2003009125A Disclosed are methods and devices for removing obstructive matter from anatomical passageways, including the removal of obstructive matter from the cerebral vasculature, prostatic obstructions from the urinary tract and/or obstructive matter from the fallopian tubes.

0) US2011034905A – METHOD OF AND APPARATUS FOR TREATING ABDOMINAL ...

64) Family number: 48264756 (US2011034905A) © PatBase

Title: METHOD OF AND APPARATUS FOR TREATING ABDOMINAL OBESITY AND METABOLIC SYNDROME IN HUMAN PATIENTS

Priority:

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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: ROCIN LABORATORIES INC

Assignee(s):(std)**:** CUCIN ROBERT L ; ROCIN LAB INC

Assignee(s): ROCIN LABORATORIES INC

Inventor(s):(std)**:** CUCIN ROBERT L

Agent(s): CUPITT PHILIP LESLIE; THOMAS J PERKOWSKI ESQ P C; THOMAS J; THOMAS J PERKOWSKI ESQ PC; PERKOWSKI THOMAS J

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 QA RO RS RU RW 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

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US class: 250/492.1 250/492.100P 600/104 600/104P 600/109 600/425 600/562 600/562S 600/566 600/566P 600/567 600/567P 604/187 604/187S 604/218 604/218P 604/30 604/30 604/30P 604/319 604/319P 604/319S 604/35 604/35S 604/506 604/506P 604/522 604/522P 604/542 604/542P 606/32 606/33 606/33S 606/40 705/2 705/2P

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Abstract:
Source: US2011034905A A method of and apparatus for safely removing visceral fatty tissue from the patient's mesentery is disclosed. In the preferred embodiment, the method involves using a novel minimally invasive or laparoscopic surgical procedure involving the inflation of the abdominal region with gas that creates a space between the wall of the abdomen and the organs inside. Using short incisions in the skin, narrow tubes are inserted through the abdominal wall so that a laparoscopically−guided electro−cauterizing and irrigating liposuction instrument can be passed through the incision to perform the maneuvers necessary for the operation. Removal of visceral fat from the mesentery is observed directly on a video monitor, which receives its picture from a video camera attached to the laparoscope. Using this technique, it is now possible to safely remove visceral fat from the patient's mesentery to treat abdominal obesity and/or metabolic syndrome in human patients.

0) US2005240146A – THROMBECTOMY AND SOFT DEBRIS REMOVAL DEVICE

65) Family number: 32362665 (US2005240146A) © PatBase

Title: THROMBECTOMY AND SOFT DEBRIS REMOVAL DEVICE

Priority: EP20050756109 20050427 US20040832830 20040427 US20070751443 20070521 US20070871908 20071012 WO2005US14637 20050427 WO2008US73171 20080814 US20100705332 20100212 US20140562014 20141205

Family:

Publication number	Publication date	Application number	Application date
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WO09097008 A1	20090806	WO2008US73171	20080814

Probable Assignee: SPECTRANETICS CORP

Assignee(s):(std)**:** EBERHARDT MARK ; EBERHAROT MARK ; EBERHART MARK ; EVANS DOUGLAS G ; FISHER WILLIAM T ; NASH JOHN E ; WALTERS GREG ; SAURO DENNIS M ; KENSEY NASH CORP ; SPECTRANETICS CORP

Assignee(s): MIDCAP FINANCIAL TRUST AGENT AS ; SPECTRANETICS CORP COLORADO SPRINGS ; WELLS FARGO BANK NATIONAL ASSOCIATION

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Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; ROGERS LAW OFFICE; RIDOUT AND MAYBEE LLP; ANDRAE WESTENDORP PATENTANWAELTE PARTNERSCHAFT; ANDRAE STEFFEN; EVENS PAUL JONATHAN; KENSEY NASH MARSH CREEK CORPORATE CENTER CORP; KENSEY NASH CORP; TOWNSEND AND TOWNSEND AND CREW LLP; HOGAN LOVELLS US LLP; SCOTT J; SCOTT; SHERIDAN ROSS PC; FAEGRE BAKER DANIELS LLP; GIBBY DARIN J

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 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 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 YU ZA ZM ZW

International class (IPC 8–9): A61B17/00 A61B17/20 A61B17/22 A61B17/32 A61B17/3207 A61M1/00 A61M25/00 A61M25/01 A61M25/09 A61M25/10 A61M25/14 A61M31/00 A61M37/00 (Advanced/Invention); A61B17/3207 A61F2/958 A61M25/00 (Advanced/Non–invention); A61B17/00 A61B17/22 A61M1/00 (Core/Invention)

International class (IPC 1–7): A61M1/00

CPC: A61B17/32037 A61B2017/00685 A61B2017/22039 A61B2017/22067 A61B2017/22084 A61M1/0058 A61M1/0066 A61M1/101 A61M25/0068 A61M25/0069 A61M25/007 A61M25/0082 A61M25/10 A61M2025/0177 A61M2025/0183 A61M2025/1052 A61B2217/005 A61B17/320783 A61B17/320758 A61B2017/320733 A61B2017/320741 A61B2017/320766

European class: A61B17/3203R A61B17/3207R A61B17/3207S A61M1/00K A61M1/00P A61M25/00T10 K61B17/00Q2 K61B17/22G1 K61B17/22H7B K61B17/22S2 K61B17/3207F K61B17/3207N K61B17/3207S K61M1/10C K61M25/00T10A K61M25/00T10C K61M25/00T40 K61M25/01K K61M25/01M K61M25/10 K61M25/10Z4

US class: 604/104 604/104S 604/118 604/118S 604/155 604/22 604/22P 604/35 604/35P 604/508 604/510 604/510P 604/523 606/159 606/159P

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Forward Citations: WO17024258, WO14163954, WO14159205, WO14004244, WO13160888, WO13160888, WO11123062, WO11123062, WO11112918, WO11112918, WO10068409, WO10027461, WO09117663, WO09117663, WO09097008, WO09054968, USD775728, US9672471, US9668767, US9649159, US9636206, US9623211, US9597109, US9586023, US9549666, US9545337, US9510854, US9492193, US9492192, US9456872, US9433427, US9421329, US9408665, US9381062, US9364256, US9345511, US9333007, US9333006, US9320530, US9314263, US9308016, US9295479, US9295373, US9283040, US9282992, US9265914, US9254145, US9248221, US9237903, US9233225, US9227043, US9211377, US9211138, US9198679, US9192405, US9173998, US9126219, US9108029, US9101884, US9095646, US9095371, US9095364, US9078691, US9050414, US9023070, US8936589, US8926561, US8920448, US8920402, US8888801, US8882751, US8795306, US8764779, US8758323, US8721626, US8702644, US8679076, US8679057, US8663259, US8663195, US8657785, US8647355, US8647294, US8628549, US8551130, US8500765, US8500764, US8496678, US8454638, US8439878,

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Abstract:
Source: US2005240146A A device suitable for removing material from a living being is provided, featuring an infusate pump, and an aspiration pump, both powered by a motor. The aspiration pump and infusate pump preferably feature a helical pumping mechanism, and operate at a high rate of rotation, thereby ensuring adequate pumping performance and flexibility. Additionally, a narrow crossing profile is maintained, ensuring that the device may reach more tortuous regions of the vasculature.

66) Family number: 30115635 (US2001001122A) © PatBase

Title: Devices and methods for performing a vascular anastomosis

Priority:

EP19960906389 19960213 US19950394333 19950224 US19960598513 19960208
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US20110073119 20110328

Family:

Publication number	Publication date	Application number	Application date
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AT429859 E	20090515	AT19960906389T	19960213
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WO9802099 A1	19980122	WO1997US12402	19970716	

Probable Assignee: HEARTPORT INC

Assignee(s):(std)**:** BOLDUC LEE R ; COSTA PETER F ; DICESARE PAUL C ; HEARTPORT INC ; HOLMES WILLIAM A ; FANN JAMES I ; GIFFORD III HANSON S ; HEARPORT INC ; GIFFORD HANSON S III ; STEIN JEFFREY A

Assignee(s): ADAMS CRAIG L ; STANFORD SURGICAL TECHNOLOGIES INC ; GIFFORD HANSON S ; STEIN JEFFERY A ; SNOW DAVID W ; GIFFORD HANSON SIII ; DONLON BRIAN S

Inventor(s):(std)**:**

DICESARE PAUL ; DICESARE PAUL C ; DONLON BRIAN S ; FANN JAMES I ; GIFFORD HANSON ; GIFFORD HANSON S ; GIFFORD HANSON S III ; GIFFORD III HANSON S ; HOLMES WILLIAM ; HOLMES WILLIAM A ; SNOW DAVID W ; STEIN JEFFERY A ; STEIN JEFFREY ; STEIN JEFFREY A ; WILLIAM A HOLMES ; PETER F COSTA ; PAUL C DICESARE ; LEE R BOLDUC ; JEFFREY A STEIN ; JAMES I FANN ; ADAMS CRAIG L ; BOLDUC LEE ; BOLDUC LEE R ; COSTA PETER ; COSTA PETER F ; HANSON S GIFFORD III ; HANSON S GIFFORD

Inventor(s): GIFFORD ; GIFFORD HANSON SIII ; CRAIG L ADAMS ; DAVID W SNOW ; BRIAN S DONLON ; III HANSON S

Agent(s): FB RICE; FETHERSTONHAUGH AND CO; BAYLISS GEOFFREY CYRIL ET AL; MERRIFIELD SARAH ELIZABETH ET AL; PHILIP S JOHNSON JOHNSON AND JOHNSON; BRIAN; BRIAN S; THEODORE J

Designated states: AT AU BE CA CH DE DK ES FI FR GB GR IE IT JP LI LU MC NL PT SE

International class (IPC 8–9): A61B17/00 A61B17/02 A61B17/04 A61B17/064 A61B17/068 A61B17/08 A61B17/11 A61B17/115 A61B17/12 A61F2/00 (Advanced/Invention);
A61B17/00 A61B17/02 A61B17/064 A61B17/11 A61B17/115 A61B17/12 A61F2/00 (Advanced/Non–invention);
A61B17/03 A61B17/064 A61B17/068 (Core/Invention);
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International class (IPC 1–7): A61B17/00 A61B17/04 A61B17/064 A61B17/08 A61B17/10 A61B17/11 A61B17/115 A61B17/32 A61F2/06

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US class: 128/898 227/179.1 227/180.1 600/210 600/215 600/219 600/235 606/1 606/104 606/139 606/142 606/143 606/151 606/151P 606/151S 606/153 606/153P 606/153S 606/155 606/155P 606/155S 606/156 606/184 606/191 606/194 606/198 606/213 606/219 606/219S 606/232

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Abstract:
Source: US2001001122A A system for performing an end−to−side vascular anastomosis, including an anastomosis device, an application instrument and methods for performing a vascular anastomosis. The system is applicable for performing an anastomosis between a vascular graft and the ascending aorta in coronary artery bypass surgery, particularly in port−access CABG surgery. A first aspect of the invention includes a vascular anastomosis staple. A first configuration has two parts: an anchor member, forming the attachment with the target vessel wall and a coupling member, forming the attachment with the bypass graft vessel. The anastomosis is completed by inserting the coupling member, with the graft vessel attached, into the anchor member. A second configuration combines the functions of the anchor member and the coupling member into a one−piece anastomosis staple. A second aspect of the invention includes an anastomotic fitting having an inner flange over which the graft vessel is everted and an outer flange which contacts the exterior surface of the target vessel. A tailored amount of compression applied by the inner and outer flanges grips the target vessel wall and creates a leak−proof seal between the graft vessel and the target vessel. A third aspect of the invention has a flange to which the graft vessel attaches, by everting the graft vessel over the flange, and a plurality of staple−like members which attach the flange and the everted end of the graft vessel to the wall of the target vessel to form the anastomosis.

0) US2002016564A – EMBOLIZATION PROTECTION SYTEM FOR VASCULAR PROC...

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International class (IPC 8–9): A61B17/22 A61F11/00 A61F2/01 A61F2/82 A61K31/70 A61K31/7068 A61K47/32 A61K47/38 A61K9/28 A61K9/36 A61K9/48 A61M25/00 A61M25/088 A61M29/00 A61M31/00 A61P31/12 A61P35/00 (Advanced/Invention); A61F2/84 A61K9/48 (Advanced/Non–invention); A61K31/7042 A61K9/28 A61K9/30 A61K9/48 (Core/Invention)

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Abstract:
Source: US2002016564A Apparatus and methods are described for effective removal of emboli or harmful fluids during vascular procedures, such as angiography, balloon angioplasty, stent deployment, laser angioplasty, atherectomy, intravascular ultrasonography and other therapeutic and diagnostic procedures. A catheter with an occluder mounted at its distal end creates an occlusion proximal to the lesion. The catheter provides a pathway for introducing a treatment catheter. Prior to, during or subsequent to the procedure, suction is activated to establish retrograde flow to remove emboli from the site. Additionally, a thin catheter with a distal fluid ejection nozzle maybe introduced distal to the treatment site to rinse emboli from the treatment site. The suction flow and/or ejected fluid flow may be varied in a pulsatile manner to simulate regular blood flow and/or perturb settled emboli into being captured that may otherwise not be collected. The method establishes a protective environment before any devices enter the site to be treated.

0) US2002165574A – EMBOLI PROTECTION DEVICES AND RELATED METHODS O...

68) Family number: 28318439 (US2002165574A) © PatBase

Title: EMBOLI PROTECTION DEVICES AND RELATED METHODS OF USE

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Family:

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Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

International class (IPC 8–9): A61B17/00 A61B17/12 A61B17/22 A61F2/06 A61F2/82 A61F2/84 A61L29/00 A61M25/00 A61M29/00 A61M29/02 A61M31/00 (Advanced/Invention); A61B17/22 A61B19/00 A61F2/06 A61F2/84 (Advanced/Non–invention); A61B17/00 A61B17/12 A61F2/82 A61M25/00 A61M29/00 (Core/Invention); A61B17/22 A61B19/00 A61F2/06 (Core/Non–invention)

International class (IPC 1–7): A61B17/00 A61B17/12 A61F2/06 A61M25/00 A61M25/10 A61M29/00

CPC: A61B2017/22079 A61B2017/22084 A61B2217/005 A61B2217/007 A61B17/12045 A61B2017/22067 A61F2/95 A61B17/12109 A61B17/12136 A61B17/22 A61B17/22031 A61B17/22032 A61B2017/22054 A61B2017/22069 A61B2017/22082 A61F2/958 A61M2025/0681 A61B2017/12127 A61B90/39

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Abstract:
Source: US2002165574A An evacuation sheath assembly and method of treating occluded vessels which reduces the risk of distal embolization during vascular interventions is provided. The evacuation sheath assembly includes an elongated tube defining an evacuation lumen having proximal and distal ends. A proximal sealing surface is provided on a proximal portion of the tube and is configured to form a seal with a lumen of a guided catheter. A distal sealing surface is provided on a distal portion of the tube and is configured to form a seal with a blood vessel. Obturator assemblies and infusion catheter assemblies are provided to be used with the evacuation sheath assembly. A method of treatment of a blood vessel using the evacuation sheath assembly includes advancing the evacuation sheath assembly into the blood vessel through a guide catheter. Normal antegrade blood flow in the blood vessel proximate to the stenosis is stopped and the stenosis is treated. Retrograde blood

flow is induced within the blood vessel to carry embolic material dislodged during treating into the evacuation sheath assembly. If necessary to increase retrograde flow, the coronary sinus may be at least partially occluded. Alternatively, antegrade flow may be permitted while flow is occluded at the treatment site.

69) Family number: 43924649 (US2009270888A) © PatBase

Title: CATHETER SYSTEM AND METHOD FOR BORING THROUGH BLOCKED VASCULAR PASSAGES

Priority: US20080108433 20080423 US20110277167 20111019 WO2009US41579 20090423 US20130752325 20130128

Family:

Publication number	Publication date	Application number	Application date
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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 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 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

International class (IPC 8–9): A61B17/00 A61B17/22 A61B17/221 A61B17/32 A61B17/3207 A61B17/34 A61B18/00 A61B18/12 A61B18/18 A61B18/20 A61B6/00 A61D1/02 A61M25/09 (Advanced/Invention); A61B18/14 A61B18/24 (Advanced/Non–invention); A61B17/22 (Core/Invention)

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US class: 600/435 600/435P 604/508 604/508S 606/14 606/14S 606/159 606/159P 606/159S 606/171 606/185 606/33 606/33S 606/80

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Forward Citations: WO16171963, WO16133932, WO14163954, WO13123007, WO13071299, US9642646, US9636139, US9636138, US9623211, US9622762, US9622706, US9615850, US9612105, US9596993, US9592075, US9585667, US9579494, US9579157, US9572492, US9566111, US9557156, US9549755, US9549718, US9532844, US9532799, US9532797, US9498600, US9498247, US9486237, US9486143, US9478940, US9456872, US9445834, US9415242, US9408998, US9383263, US9367965, US9360630, US9345510, US9345406, US9345398, US9326789, US9324141, US9307926, US9301687, US9292918, US9286673, US9283040, US9241734, US9241733, US9220530, US9204893, US9192566, US9192426,

US9192406, US9125562, US9119662, US9107590, US9060806, US9044568, US9028512, US8998937, US8998936, US8992717, US8979877, US8961546, US8956376, US8920450, US8911459, US8852166, US8808186, US8784440, US8764700, US8740835, US8696695, US8696612, US8690818, US8644913, US8597315, US8574249, US8548571, US8496677, US8469979, US8414604, US8361097, US8328829, US8246640, US8226674, US8192452, US2015258258, US2015209065, US2015080700, US2014222048, US2013110147, US2011201974, US2011054503, US2011021926, US2010305452, US2010274270, US2010125253, US2008319376, EP3135232, EP2854654, EP2716240, EP2640284,

Abstract:
Source: US2009270888A A rotating cutting head catheter for passage through chronic total occlusions or other refractory atherosclerotic plaque from diseased arteries is disclosed. The catheter's rotating cutting head is designed to reside safely within an outer protective sheath when not in use. The outer protective sheath contains one or more helical groves or slots, and the cutting head contains protruding blades or projections that fit into these helical groves or slots. Application of torque to an inner catheter or wire attached to the cutting head applies spin to the cutting head, and the force of the sheath's helical groves or slots against the cutting head's protruding blades or projections advances the cutting head outward from the protective sheath. Once extended, the cutting head may now rotate freely. The device may use a guidewire to direct the cutting head to the desired position.

0) US2013032236A – DUAL–PURPOSE FLUID CONTROL VALVE

70) Family number: 47898847 (US2013032236A) © PatBase

Title: DUAL–PURPOSE FLUID CONTROL VALVE

Priority: AU20100260140 20100615 AU20160262646 20161121 US20100377816 20100615 US20090218324P 20090618 US20090246505P 20090928 WO2010US38698 20100615

Family:

Publication number	Publication date	Application number	Application date
AU2010260140 AA	20101223	AU20100260140	20100615
AU2016262646 AA	20161208	AU20160262646	20161121
BRPI1011779 A2	20160329	BR2010PI11779	20100615
CA2765562 AA	20101223	CA20102765562	20100615
EP2443369 A1	20120425	EP20100790066	20100615
EP2443369 A4	20150218	EP20100790066	20100615
IN00437CN2012 A	20130621	IN2012CN00437	20120112
MX2011013565 A1	20120222	MX20110013565	20100615
SG10201403159R A1	20141030	SG20141003159	20100615
SG176910 A1	20120130	SG20110093929	20100615
US2013032236 AA	20130207	US20100377816	20100615
WO10148005 A1	20101223	WO2010US38698	20100615

Probable Assignee: IASA JR JOHN R

Assignee(s):(std)**:** IASA ANTHONY ; IASA JR JOHN R ; RINGER YORAM ; SIMONIN GEORGE V ; YANG SU ; TYCO FIRE PRODUCTS LP

Inventor(s):(std)**:** YANG SU ; SIMONIN GEORGE V ; RINGER YORAM ; IASA ANTHONY ; YANG SUY

Inventor(s): YORAM RINGER ; ANTHONY IASA ; GEORGE V SIMONIN ; SU YANG ; SUY YANG

Agent(s): GRIFFITH HACK; KIRBY EADES GALE BAKER; GRAY JAMES; DREW AND NAPIER LLC; LAUB DAVID W

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 TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): A62C35/68 F16K11/00 F16K11/048 F16K11/10 F16K17/20 (Advanced/Invention)

CPC: Y10T137/86694 Y10T137/8778 F16K11/048 A62C35/68 F16K11/105

European class: F16K11/048 F16K11/10B

US class: 137/625.67 137/871

Classification Explorer

Cited documents: WO07022578 A1, US8267112 BB, US7334597 BA, US6357467 BA, US5549131 A, US5236002 A, US4941502 A, US4779639 A, US4638831 A, US4509686 A, US4385640 A, US4243064 A, US4095611 A, US3559670 A, US3346051 A, US2876788 A, US2577337 A, US2010243929 AA, US2010206391 AA, US2010012197 AA, US2009272549 AA, US2004055763 AA, EP0000012 A1,

Abstract:
Source: US2013032236A A dual–purpose fluid control valve for controlling the flow of fluid to separate systems supplied by the valve. The control valve includes a body having an inlet, a first outlet, and a second outlet. The valve further includes means for controlling a rate of fluid through one outlet based on a fluid demand at the outlet while controlling the rate of fluid flow through the other outlet.

0) US2004243143A – FLEXIBLE DELIVERY DEVICE

71) Family number: 31373058 (US2004243143A) © PatBase

Title: FLEXIBLE DELIVERY DEVICE

Priority: US20030445512 20030527 US20040961244 20041008 US20040961667 20041008

Family:

Publication number	Publication date	Application number	Application date
US2004243143 AA	20041202	US20030445512	20030527
US2005043711 AA	20050224	US20040961667	20041008
US2005080400 AA	20050414	US20040961244	20041008
US6921397 BB	20050726	US20030445512	20030527
US7413563 BB	20080819	US20040961244	20041008
US7625364 BB	20091201	US20040961667	20041008
WO04105855 A1	20041209	WO2004US11718	20040415
WO06041612 A2	20060420	WO2005US33061	20050914
WO06041612 A3	20061221	WO2005US33061	20050914
WO06042043 A2	20060420	WO2005US36042	20051007
WO06042043 A3	20070816	WO2005US36042	20051007

Probable Assignee: CARDIA INC

Assignee(s):(std)**:** CARDIA INC ; CORCORAN MICHAEL L ; CORCORAN MICHAEL P ; MARINO JOSEPH A

Inventor(s):(std)**:** CORCORAN MICHAEL P ; MARINO JOSEPH A ; CORCORAN MICHAEL L

Inventor(s): MARINO JOSEPH ; CORCORAN MICHAEL

Agent(s): KINNEY AND LANGE PA

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 KP KR KZ LC 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

International class (IPC 8–9): A61M25/00 A61M25/16 A61M25/18 A61M29/00 (Advanced/Invention); A61M25/00 A61M25/16 (Core/Invention)

International class (IPC 1–7): A61M25/00 A61M25/16 A61M29/00 A61M31/00

CPC: A61B17/0057 A61B2017/00292 A61B2017/00575 A61B2017/00592 A61B2017/00606 A61B2017/00619 A61M25/0043 A61M25/0054 A61B2017/2905

European class: A61B17/00P A61M25/00S A61M25/00S3 K61B17/00E3 K61B17/00P5 K61B17/00P5E K61B17/00P5H K61B17/00P5L K61B17/29F6

US class: 464/149 600/435 604/523 604/523P 604/535 606/108

Classification Explorer

Cited documents: US6921397 BB, US6682493 BB, US6428489 BA, US6273876 BA, US6053922 A, US5833632 A, US5776079 A, US5690120 A, US5477856 A, US5381782 A, US4955384 A, US4840690 A, US4600037 A, US4328839 A, US3674014 A, US3162214 A,

Forward Citations: WO14066439, WO14066432, WO14066432, WO12071464, WO11162853, WO11003213, WO10140083, WO07149336, WO06076890, US9662110, US9655624, US9655614, US9649495, US9649480, US9649116, US9649111, US9649110, US9642993, US9642705, US9642637, US9636095, US9636094, US9629814, US9629629, US9629623, US9615826, US9610117, US9603598, US9603595, US9592054, US9592053, US9592052, US9592050, US9585750, US9585749, US9585663, US9585658, US9585657, US9574644, US9572623, US9572577, US9572574, US9566061, US9561103, US9561075, US9561038, US9561032, US9555219, US9554899, US9554794, US9545498, US9545290, US9545252, US9532872, US9527199, US9526609, US9526507, US9522029, US9517068, US9517063,

US9510947, US9510945, US9510903, US9510830, US9510828, US9504481, US9504398, US9498603, US9498219, US9492635, US9492273, US9492167, US9486214, US9480491, US9480476, US9474517, US9468438, US9468430, US9468359, US9463013, US9456812, US9451958, US9451939, US9445813, US9439757, US9439649, US9433419, US9427255, US9421057, US9415225, US9414838, US9408606, US9408604, US9402626, US9399115, US9398911, US9393113, US9393094, US9393015, US9387309, US9387308, US9387076, US9386988, US9386984, US9381006, US9375268, US9370421, US9370364, US9370358, US9364233, US9364230, US9358371, US9358110, US9358106, US9358005, US9358003, US9351730, US9351727, US9351726, US9345481, US9345477, US9332987, US9332984, US9332974, US9326770, US9326769, US9326768, US9326767, US9320599, US9320523, US9320520, US9320518, US9314620, US9314247, US9314246, US9309916, US9308085, US9307989, US9307988, US9307986, US9307965, US9301759, US9301753, US9301752, US9289256, US9289206, US9283054, US9282993, US9282962, US9277995, US9277993, US9277991, US9277957, US9277919, US9272406, US9271799, US9259250, US9254169, US9241714, US9233241, US9232997, US9232954, US9232941, US9226772, US9226751, US9220526, US9220501, US9220500, US9216019, US9211121, US9211120, US9205236, US9204880, US9204879, US9204878, US9199085, US9198662, US9186143, US9179911, US9161809, US9155574, US9138225, US9131926, US9125671, US9125662, US9119657, US9113974, US9113874, US9101753, US9101385, US9101358, US9095339, US9084601, US9078740, US9078662, US9078630, US9072536, US9072535, US9072515, US9060820, US9060770, US9055941, US9050084, US9049987, US9044575, US9044230, US9028494, US9028483, US9023033, US9011521, US9011431, US9005273, US9005198, US9005155, US8998976, US8998058, US8992608, US8991677, US8986199, US8979837, US8978954, US8974454, US8973804, US8961516, US8956389, US8951299, US8951243, US8951223, US8945118, US8940014, US8939897, US8931682, US8911474, US8906035, US8894703, US8888792, US8882697, US8876819, US8870948, US8864760, US8858620, US8852119, US8840663, US8840662, US8828078, US8828031, US8827910, US8790341, US8777985, US8771260, US8758349, US8752258, US8745845, US8740962, US8734465, US8734440, US8728155, US8715280, US8715279, US8679174, US8679003, US8677602, US8668733, US8663226, US8652150, US8623078, US8623076, US8617236, US8608652, US8603160, US8591507, US8579962, US8579897, US8574264, US8568410, US8529563, US8517999, US8506564, US8496574, US8485992, US8480689, US8480669, US8480657, US8460372, US8454673, US8449538, US8439917, US8425505, US8409200, US8403926, US8382796, US8382742, US8376865, US8372112, US8366559, US8361112, US8357140, US8353898, US8353487, US8343213, US8337394, US8328868, US8317806, US8292803, US8287584, US8287541, US8287539, US8262680, US8262655, US8262563, US8252057, US8252052, US8251963, US8246678, US8241204, US8231670, US8211170, US8211125, US8206404, US8187267, US8182528, US8172772, US8157834, US8157751, US8142445, US8136659, US8133271, US8124876, US8114119, US8114072, US8075614, US8075572, US8070759, US8062357, US8062356, US8052749, US8048153, US7988724, US7981091, US7976564, US7959672, US7959666, US7942875, US7909825, US7846162, US7824443, US7824442, US7780725, US7749238, US7748389, US7717937, US7712606, US7691128, US7579550, US7575586, US7413563, US7389148, US2016051287, US2014330272, US2014248964, US2014235361, US2014025045, US2014005708, US2013319712, US2013230352, US2012303005, US2011276034, US2011190874, US2011190732, US2011118582, US2011112365, US2011077678, US2011071624, US2011071623, US2010331618, US2010305475, US2010298755, US2010286684, US2010286566, US2010280495, US2010219092, US2010211076, US2010174177, US2010152731, US2010121434, US2010082033, US2010080892, US2010023010, US2009312606, US2009234443, US2009156999, US2009143768, US2009076598, US2009054969, US2009012517, US2008294158, US2008249522, US2008234814, US2008228200, US2008172008, US2008125859, US2007293891, US2007233043, US2007203503, US2007162107, US2007135826, US2007135681, US2007118214, US2007112355, US2007066994, US2007061008, US2007010877, US2007010876, US2006253191, US2006173524, US2006173243, US2006058872, US2006009800, US2005283231, US2005267526, US2005251151, US2005143809, US2005137701, US2005137699, US2005137698, US2005137697, US2005137695, US2005137692, US2005137689, US2005137688, US2005080400, US2004267306, US2003208232, JP2015525611, GB2433700, GB2433700, EP2977020, EP2437645, EP2437645, EP2166936, EP2166936, EP2150193, EP2150193, EP2099516, EP2099516, EP2099516, CN104968287, CN104582600, CN103037930, CN103037930, CN102448360, CH701417, AU2013313339, AU2011269806, AU2011269806, AU2008205550,

Abstract:
Source: US2004243143A This invention relates to catheter delivery systems, and more specifically, to a tubular device with improved torque and flexure characteristics. The present invention is a tubular device having improved

torque and flexure characteristics which uses a series of permanently interlocking independent segments to provide the necessary torque and flexure characteristics.

0) WO16044647A4 – EXPANDABLE BODY DEVICE AND METHOD OF USE DISPO...

72) Family number: 61914727 (WO16044647A4) © PatBase

Title: EXPANDABLE BODY DEVICE AND METHOD OF USE

Priority: US20140051873P 20140917 WO2015US50783 20150917

Family:

Publication number	Publication date	Application number	Application date
AU2015317507 AA	20160324	AU20150317507	20150917
CA2957601 AA	20170207	CA20152957601	20150917
IL250496 A0	20170330	IL20150250496	20150917
IN201737006549 A	20170519	IN201737006549	20170223
KR20170056666 A	20170523	KR20177010354	20150917
TW201620464 A	20160616	TW20150131097	20150917
WO16044647 A2	20160324	WO2015US50783	20150917
WO16044647 A3	20160602	WO2015US50783	20150917
WO16044647 A4	20160804	WO2015US50783	20150917

Probable Assignee: METACTIVE MEDICAL INC

Assignee(s):(std)**:** METACTIVE MEDICAL INC

Assignee(s): STEPHENSON KATHERINE ; LOREE II HOWARD M ; BRUNELL STEPHEN ; FRANANO F NICHOLAS

Inventor(s):(std)**:** BRUNELL STEPHEN ; BRUNELL STEVEN ; FRANANO F NICHOLAS ; LOREE HOWARD M ; LOREE II HOWARD M ; STEPHENSON KATHERINE

Inventor(s): LOREE HOWARD M II

Agent(s): PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; GOWLING WLG CANADA LLP; DEAN III ELTON F 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 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

International class (IPC 8–9): A61B A61B17/12 A61B17/135 A61B90/00 A61F2/04 A61F2/86 (Advanced/Invention)

CPC: A61B17/12113 A61B17/12109 A61B17/12131 A61B17/12136 A61B17/1214 A61B17/12145 A61B17/12172 A61B17/12177 A61B2017/00526 A61B2017/00876 A61B2017/00893 A61B2017/00942 A61B2017/00946 A61B2017/00991 A61B2017/12063 A61B2017/12068 A61B2017/12095 A61B2090/3966

Classification Explorer

Cited documents: WO13109309 A1, US7955246 BB, US6312405 BA, US6156005 A, US5833671 A, US5327885 A, US2010222803 AA, US2002143383 AA,

Forward Citations: US9572698, US9572697,

Abstract:
Disclosed herein are devices, designs, methods of manufacturing and using medical devices comprising expandable bodies for treating saccular vascular aneurysms and occluding segments of blood vessels and other biological conduits. Exemplary expandable bodies include hollow gold structures that can be folded, wrapped, and compressed, joined to a delivery device, advanced to location in the body of patient in need of treatment, expanded by injection of a fluid into the central void, and separated from the delivery device, remaining in place in an open, expanded form without the addition of support structures to the central void. Other expandable bodies include coiled wires that can be loaded into delivery catheters and expelled from the delivery catheters using pusher devices. Also disclosed herein, are methods of using multiple medical devices and expandable bodies where the expandable bodies are placed adjacent to each other to occlude a saccular aneurysm.

73) Family number: 33153173 (US2006167438A) © PatBase

Title: PRESSURE–LIMITING BALLOON CATHETER AND METHOD FOR USING THE CATHETER

Priority:

AU20100319525	20101111	AU20130205073	20130413	US20050647204P	20050126
CA20132813919	20130424	CA20132839061	20130409	AU20160203938	20160610
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Family:

Publication number	Publication date	Application number	Application date
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WO06081408 A3	20071004	WO2006US02904	20060126	
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WO13163254 A4	20140109	WO2013US37909	20130424	
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WO15184357 A1	20151203	WO2015US33333	20150529	

Probable Assignee: MAYSER LLC

Assignee(s):(std)**:** KALSER GARY ; KALSER GARY A ; KALSER GARY M ; LEONE JAMES ; MAYBACK GREGORY ; MAYBACK GREGORY L ; MAYSER LLC ; PALMER MATTHEW A ; PINCHUK LEONARD

Inventor(s):(std)**:** MAYBACK GREGORY ; PINCHUK LEONARD ; PINCHUCK LEONARD ; PALMER MATTHEW A ; MAYBACK GREGORY L ; LEONE JAMES ; KALSER GARY M ; KALSER GARY A ; KALSER GARY

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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 YU ZA ZM ZW

International class (IPC 8–9): A61B1/06 A61B1/307 A61B5/00 A61B5/20 A61F13/00 A61F2/00 A61F2/958 A61M1/00 A61M25/00 A61M25/04 A61M25/10 A61M25/14 A61M27/00 A61M29/00 A61M3/02 A61M31/00 A61M37/00 A61M39/22 (Advanced/Invention); A61B5/20 A61M25/00 A61M25/10 (Advanced/Non–invention); A61M27/00 (Core/Invention)

CPC: A61M25/0032 A61M2025/0175 A61M25/003 A61M2025/1054 A61M2025/1065 A61M2025/0018 A61M25/10185 A61M25/1027 A61B1/06 A61M25/1036 A61M2210/1085 A61M25/0075 A61M25/10181 A61M25/10184 A61M25/0026 A61M25/10182 A61B5/412 A61M25/10 A61B5/205 A61M25/10186 A61M25/1029 A61M25/0017 A61M25/1018 A61M25/04 A61M2025/1093 Y10T29/49405 Y10T29/49826

European class: A61B5/41D A61M25/00H A61M25/04 A61M25/10 A61M25/10E K61B5/20D3 K61M25/04 K61M25/10E K61M25/10Z22

US class: 1/1 29/428 29/890.12 600/249 600/37 604/101.01 604/103.06 604/19 604/20 604/21 604/544 604/544P 604/544S 604/915 604/920 604/921 604/96.01 604/96.010P 604/96.010S 604/99.02 604/99.020S 606/13 606/14 606/15 606/16 606/17 606/7 606/8 606/80 606/88 606/89

Classification Explorer

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Forward Citations: WO16014999, WO15184357, WO15068085, WO14147620, WO14088665, WO13163254, WO13152324, WO12087642, WO12087642, WO12006629, WO12006629, WO11060158, US9675237, US9669193, US9642992, US9586022, US9572954, US9526401, US9516995, US9510743, US9510732, US9504808, US9474877, US9468364, US9427556, US9402972, US9332893, US9272120, US9248266, US9227042, US9226648, US9192287, US9180247, US9155587, US9155452, US9132064, US9126008, US9101735, US9084868, US9056192, US9055906, US9044571, US9005165, US8954134, US8939962, US8934962, US8858609, US8814845, US8801699, US8758229, US8709008, US8702681, US8694071, US8672882, US8657805, US8591497, US8500684, US8439862, US8419613, US8417321, US8382708, US8353874, US8333012, US8235985, US8221310, US8142394, US8137333, US8131350, US8105318, US8078266, US8050746, US7930016, US7918787, US7860556, US7860555, US2016008570, US2015164309, US2015112312, US2015073217, US2014166122, US2013331824, US2012302951, US2012158099, US2012136343, US2012035595, US2011202008, US2011152762, US2011082444, US2011071506, US2010016844, US2008114333, US2008027416, JP2015519106, EP2931353, EP2841142, CN104146700, AU2013356672,

Abstract:
Source: US2006167438A A pressure–limiting or breakaway catheter includes a multi–lumen shaft having a distal end and a hollow balloon portion disposed at the distal end of the shaft. The balloon portion has a distal end and an interior. The shaft and/or the balloon portion has a balloon safety valve formed to open to the environment outside the shaft and/or the balloon portion when greater than a given bursting pressure exists within the shaft and/or the interior of the balloon portion. The safety valve can be formed to burst at a first breaking force less than a second breaking force required to burst the balloon portion and/or the shaft. Also provided is a breakaway catheter kit including a set of the breakaway catheters, each having the balloon safety valve with different safety valve breaking constants.

0) US2015007827A – OCCLUSION DEVICE WITH OPENABLE CHANNEL

74) Family number: 58190856 (US2015007827A) © PatBase

Title: OCCLUSION DEVICE WITH OPENABLE CHANNEL

Priority: US20130933982 20130702 US20140902797 20140529 WO2014US40081 20140529

Family:

Publication number	Publication date	Application number	Application date
AR096780 AA	20160203	AR2014P102458	20140701
AU2014284662 AA	20150108	AU20140284662	20140529
CA2917135 AA	20151230	CA20142917135	20140529
CL2015003779 A1	20160930	CL20150003779	20151230
CN105491980 A	20160413	CN201480047608	20140529
CO15309014 A2	20160620	CO20150309014	20151228
CR20160003 A	20160617	CR20160000003	20160104
EP3016622 A1	20160511	EP20140732787	20140529
HK1219648 A1	20170413	HK20160107829	20160706
JP2016526432 T2	20160905	JP20160523752T	20140529
KR20160029085 A	20160314	KR20167002440	20140529
MX2016000158 A1	20160615	MX20160000158	20140529
SG11201510453V A1	20160128	SG20151110453	20140529
US2015007827 AA	20150108	US20130933982	20130702
US2016166427 AA	20160616	US20140902797	20140529
WO15002709 A1	20150108	WO2014US40081	20140529

Probable Assignee: BAYER HEALTHCARE LLC

Assignee(s):(std)**:** BAYER ESSURE INC ; BAYER HEALTHCARE LLC ; CONCEPTUS INC

Assignee(s): OZDIL FERIDUN ; STOUT CHRISTOPHER A

Inventor(s):(std)**:** OZDIL FERIDUN ; STOUT CHRISTOPHER A

Inventor(s): CHRISTOPHER A STOUT ; FERIDUN OZDIL

Agent(s): GRIFFITH HACK; FETHERSTONHAUGH AND CO; JOHANSSON AND LANGLOIS LTDA; JOSE ANDRES RINCON USCATEGUI; BIP PATENTS; SCHELLER JAMES C 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

International class (IPC 8–9): A61B17/42 A61B19/00 A61B90/00 A61F6/22 (Advanced/Invention); A61F (Subclass/Invention)

CPC: A61F6/225 A61F6/22 A61B2090/3966 A61B90/39

US class: 128/831

Classification Explorer

Cited documents: US8235047 BB, US6634361 BA, US6526979 BA, US6165193 A, US2013042873 AA, US2012192872 AA, US2011094519 AA, US2010006105 AA, US2009056722 AA, CN102665619 A,

Abstract:
Source: US2015007827A The various embodiments of the present invention provide implantable occlusion devices and methods of using the occlusion devices. In an embodiment, the occlusion devices include an openable channel to facilitate reversible female contraception.

0) US2014005683A – HIGHLY ARTICULATED ROBOTIC PROBES AND METHODS O...

75) Family number: 50963741 (US2014005683A) © PatBase

Title: HIGHLY ARTICULATED ROBOTIC PROBES AND METHODS OF PRODUCTION AND USE OF SUCH PROBES

Priority:

AU20110316849	20111021	AU20120240201	20120405	JP20130535114	20111021
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Family:

Publication number	Publication date	Application number	Application date
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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

International class (IPC 8–9): A01B A61B A61B1/00 A61B1/005 A61B1/008 A61B1/01 A61B1/012 A61B1/04 A61B1/24 A61B1/273 A61B13/00 A61B17/00 A61B17/02 A61B17/24 A61B17/29 A61B17/34 A61B17/94 A61B18/02 A61B18/14 A61B18/22 A61B19/00 A61B34/00 A61B34/30 A61B46/23 A61B90/00 A61B90/30 A61B90/50 A61B90/57 A61G13/10 A61M25/00 A61M25/06 A61M25/08 A61M25/092 B25J B25J13/00 B25J13/06 B25J17/00 B25J18/06 B25J19/00 B25J19/06 B25J3/00 B25J9/06 G02B23/24 H04L12/885 (Advanced/Invention); A61B17/00 A61B17/29 A61B17/34 A61B18/14 A61B34/00 A61B34/30 A61B90/00 A61B90/11 A61B90/50 B25J18/06 B25J3/00 (Advanced/Non–invention); A61B B25J (Subclass/Invention)

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European class: A61B1/005B6 A61B1/005B8 A61B1/00P6 A61B1/01

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Forward Citations: WO17025982, WO17009604, WO17002143, WO16172162, WO16084997, WO15188071, WO15081008, WO15042453, WO14201538, WO14179683, WO14136583, US9629683, US9591964, US9550293, US9517557, US9517059, US9266029, US9144370, US2017144298, US2017086931, US2017014024, US2016213227, US2015367508,

US2015352715, US2015196364, US2015174500, US2015141756, JP6093911, JP2016527927, JP2015523221, GB2540930, EP2996619, EP2996613, EP2984535, EP2929303, EP2777480, CN105105703, CN103817704, CN103817704,

Abstract:
Source: US2014005683A A highly articulated robotic probe comprises an outer sleeve and an inner core. The outer sleeve and inner core include a plurality of links. The links of the outer sleeve and inner core are configured to pivot relative to one another. Various characteristics of the links determine the overall pivot angle of the articulated probe. Each of the plurality of links may have one or more channels. The channels form a semi−continuous passage from link to link and are configured to receive an elongated member such as an inner core, tool or cable. One or more cables may be used to control the outer links of the outer sleeve and the inner links of the inner core. Various characteristics of the cables determine the overall performance of the articulated probe.

0) US5569193A – SYRINGE SYSTEM ACCOMMODATING SEPARATELY STORABL...

76) Family number: 30432500 (US5569193A) © PatBase

Title: Syringe system accommodating separately storable prefilled containers for two constituents

Priority: AU19960053737 19960327 AU19970046515 19970925 US19950408463 19950322 US19950412623 19950329 US19960620061 19960321 US19960722603 19960927 US19970916903 19970821 WO1996US04144 19960327 WO1997US17194 19970925

Family:

Publication number	Publication date	Application number	Application date
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WO9813088 A1	19980402	WO1997US17194	19970925

Probable Assignee: HOSPIRA INC

Assignee(s):(std)**:** ABBOTT LAB ; ABBOTT LABORATORIES

Assignee(s): ABBOTT LABORATORIES ABBOTT PARK ; ABBOTT LABORATORIES PATENT AND TRADEMARK DEPARTMEN ; ABBOTT LABORATORIES PATENT AND TRADEMARK DEPT ; HOSPIRA INC ; GRABENKORT RICHARD W ; HOFSTETTER JOHN M ; O NEIL JOHN A

Inventor(s):(std)**:** JOHN A O NEIL ; JOHN M HOFSTETTER ; RICHARD W GRABENKORT ; O NEIL JOHN A ; HOFSTETTER JOHN M ; GRABENKORT RICHARD W ; GRABENKORT W

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Designated states: AT AU BE CA CH DE DK ES FI FR GB GR IE IT JP LI LU MC NL PT SE

International class (IPC 8–9): A61M5/19 A61M5/24 A61M5/28 A61M5/31 A61M5/315 B65D81/32 (Advanced/Invention); A61M5/24 A61M5/28 A61M5/31 (Advanced/Non–invention); A61M5/19 A61M5/24 A61M5/28 A61M5/31 A61M5/315 B65D81/32 (Core/Invention); A61M5/31 (Core/Non–invention)

A61M37/00 A61M5/24 A61M5/28 A61M5/31 A61M5/315

International class (IPC 1–7):

CPC: A61M2005/3121 A61M2005/3128 A61M5/31596 A61M5/3129 A61M5/3135 A61M2005/3104 A61M2005/3106 A61M2005/3123 A61M2005/31598

European class: A61M5/315M A61M5/31C K61M5/315M1B K61M5/31A3C K61M5/31A3D K61M5/31A6C K61M5/31A7 K61M5/31A9 K61M5/31C3

US class: 604/191 604/218 604/89 604/91

Classification Explorer

Cited documents: WO9630066 A1, WO9629106 A2, WO9210225 A1, WO9201485 A1, US5569193 A, US5520657 A, US5496288 A, US5472431 A, US5407431 A, US5372586 A, US5298024 A, US5289858 A, US5181909 A, US5176639 A, US5158546 A, US5135507 A, US5125892 A, US5114405 A, US5088996 A, US5067998 A, US5067948 A, US4957637 A, US4936315 A, US4840616 A, US4581023 A, US4581016 A, US4243080 A, US4172457 A, US4171698 A, US4153057 A, US3838689 A, US3757779 A, US3754644 A, US3682174 A, US3678931 A, US3621843 A, US3489147 A, US3477432 A, US3255752 A, US2475939 A, EP0695555 A1, EP0599649 A1, EP0302248 A1, EP0298585 A1, EP0005939 A1,

Forward Citations: WO9813088, WO17044112, WO17005590, WO16028820, WO15174659, WO15038818, WO15038782, WO14025694, WO13043861, WO13043861, WO12110471, WO12110057, WO12050557, WO08101393, WO08045876, WO08045876, WO07099870, WO07028876, WO05115514, WO03045478, WO03028785, WO03028785, WO02067814, WO0191836, WO0191836, WO0162319, WO0147584, WO0119448, WO0071185, WO0053244, USD577605, USD573034, USD571224, USD570052, USD555508, USD554525, USD554524, USD552798, USD548889, USD536138, USD530862, USD523179, USD516251, USD512647, USD512646, USD511975, USD507680, USD504713, US9649441, US9642438, US9636253, US9630755, US9522098, US9522097, US9500186, US9498581, US9463426, US9463139, US9440773, US9408455, US9377338, US9375108, US9358346, US9358181, US9352105, US9283035, US9238102, US9226876, US9222728, US9220577, US9174002, US9149581, US9125995, US9072833, US9044536, US9044378, US9028453, US9028451, US9003676, US8992505, US8992469, US8968236, US8939958, US8919614, US8852561, US8845594, US8834419, US8814823, US8753310, US8734420, US8733368, US8672883, US8668675, US8663160, US8662087, US8657481, US8627861, US8613730, US8608686, US8586071, US8579855, US8567452, US8562582, US8545476, US8540683, US8517226, US8512278, US8454558, US8444597, US8430843, US8430105, US8425550, US8425453, US8414927, US8413854, US8398590, US8394400, US8394052, US8383163, US8382704, US8366669, US8353866, US8343110, US8317751, US8313465, US8313464, US8313463, US8313455, US8292846, US8277414, US8273324, US8272411, US8240934, US8231568, US8231567, US8226627, US8226598, US8221347, US8220507, US8216612, US8173176, US8171652, US8167835, US8162875, US8152839, US8137307, US8128613, US8105292, US8101197, US8096971, US8079977, US8022375, US8012454, US8007509, US8002737, US8002734, US7998106, US7985211, US7981088, US7981076, US7976823, US7966746, US7964123, US7963939, US7963287, US7959600, US7951402, US7951108, US7947368, US7928178, US7927563, US7901770, US7886937, US7883490, US7879002, US7861750, US7858183, US7842377, US7824702, US7798185, US7779609, US7776011, US7776010, US7766919, US7766018, US7753891, US7749189, US7740607, US7736671, US7731679, US7731678, US7727555, US7717877, US7717304, US7677419, US7666333, US7651291, US7644842, US7641851, US7635344, US7611542, US7588825, US7588780, US7569185, US7507772, US7501179, US7467482, US7462366, US7449236, US7425209, US7358505, US7311861, US7306611, US7294119, US7290573, US7288319, US7264142, US7226231, US7195606, US7186241, US7135027, US7131997, US7101354, US7094369, US7053134, US6960184, US6948522, US6936031, US6907679, US6890328, US6871751, US6852103, US6723068, US6702778, US6681810, US6645181, US6641565, US6626870, US6610252, US6566144, US6554818, US6478771, US6474375, US6440101, US6425499, US6406455, US6364865, US6135771, US5931816, US5902271, US5902269, US5876372, US5785682, US5779668, US2016058947, US2015359312, US2015065991, US2014290792, US2014254303, US2014127809, US2013267932, US2013153598, US2013096063, US2012279998, US2011213358, US2011176382, US2011083978, US2011004156, US2010323322, US2010307935, US2010286606, US2010276035, US2010275938, US2010274184, US2010249753, US2010241067, US2010209522, US2010168712, US2010082013, US2010063474, US2010063473, US2010063445, US2010010472, US2009255960, US2009209939, US2009191279, US2009182301, US2009112157, US2009099512, US2009024082, US2009018496, US2009012497, US2009012470, US2008319400, US2008244923, US2008179345, US2008174053,

US2008145658, US2008142112, US2008135130, US2008124397, US2008109002, US2008044218, US2008041715, US2008039773, US2008028632, US2008015513, US2007299461, US2007265574, US2007255226, US2007255204, US2007255201, US2007251839, US2007225640, US2007183986, US2007156102, US2007142893, US2007142859, US2007142560, US2007141340, US2007141339, US2007129673, US2007106210, US2007092451, US2007083226, US2007083219, US2007060877, US2007060876, US2007060875, US2007059375, US2007004973, US2006292300, US2006247610, US2006224105, US2006210710, US2006199010, US2006199009, US2006157507, US2006144869, US2006130857, US2006106346, US2005277894, US2005263916, US2005263543, US2005261620, US2005238870, US2005236063, US2005196449, US2005193586, US2005189379, US2005177100, US2005154350, US2005129775, US2005095428, US2005089358, US2005043689, US2005027255, US2005004530, US2004249341, US2004249339, US2004236340, US2004230017, US2004178163, US2004127846, US2004096662, US2004092883, US2004091543, US2004068266, US2004037887, US2004030285, US2004009609, US2003233150, US2003203985, US2003195489, US2003185896, US2003185895, US2003180262, US2003141268, US2003089743, US2003088216, US2003032935, US2002182718, KR101510680, KR101175606, JP2015051295, JP2014508603, JP2014028041, JP2008167844, JP2003535624, FR2890316, EP3147032, EP3003454, EP2743654, EP2000163, EP1911478, EP1833532, EP1819387, EP1189659, EA10190, EA010190, DE19947998, CN102596284, AU2011205188, AU2005247153, AU2005247153, AU2001264907, AT500930,

Abstract:
Source: US5569193A A prefilled, two−constituent system is provided with first and second containers. The first container includes a first chamber having a dispensing end. The dispensing end defines a dispensing passage communicating through the dispensing end to accommodate the dispensing of fluid from the first chamber. A movable seal is slidably disposed in the first chamber, and a first constituent is provided in the first chamber between the dispensing end and the seal. A second container includes a barrel that is sized to be disposed in the first container and that has a discharge end defining a discharge passage communicating through the discharge end to accommodate the discharge of fluid from the barrel. A plunger is slidably disposed within the barrel. A liquid second constituent is provided in the barrel between the discharge end and the plunger. The first container seal and the second container barrel discharge ends are engageable to cooperatively define a coupling accommodating the flow of the liquid second constituent from the second container barrel into the first chamber of the first container as the barrel moves outwardly relative to the first chamber.

0) US2003225358A – FOCUSED DOSIMETRY DEVICE AND METHODS ASSOCIATED...

77) Family number: 30051761 (US2003225358A) © PatBase

Title: FOCUSED DOSIMETRY DEVICE AND METHODS ASSOCIATED THEREWITH

Priority: GB20040028458 20030603 US20020160166 20020604 US20030446739 20030529
US20040912242 20040806 US20060544430 20061006 WO2003US17263 20030603
US20060595018 20061110 US20120573394 20120913 US20110064467 20110328
US20060541985 20061002 US20130815773 20130314

Family:

Publication number	Publication date	Application number	Application date
AU2003240980 AA	20031219	AU20030240980	20030603
AU2003240980 AH	20031219	AU20030240980	20030603
GB200428458 A0	20050202	GB20040028458	20030603
GB200621857 A0	20061213	GB20060021857	20030603
GB2407273 A1	20050427	GB20040028458	20030603
GB2407273 B2	20070207	GB20040028458	20030603
GB2428979 A1	20070214	GB20060021857	20030603
GB2428979 B2	20070321	GB20060021857	20030603
US2003225358 AA	20031204	US20020160166	20020604
US2004015120 AA	20040122	US20030446739	20030529
US2005010174 AA	20050113	US20040912242	20040806
US2007093746 AA	20070426	US20060541985	20061002
US2007100289 AA	20070503	US20060595018	20061110
US2007179449 AA	20070802	US20060544430	20061006
US2011178497 AA	20110721	US20110064467	20110328
US2013085456 AA	20130404	US20120573394	20120913
US2014074051 AA	20140313	US20130815773	20130314
US7125394 BB	20061024	US20030446739	20030529
US7141036 BB	20061128	US20020160166	20020604
US8845596 BB	20140930	US20110064467	20110328
US9132262 BB	20150915	US20120573394	20120913
WO03101368 A2	20031211	WO2003US17263	20030603
WO03101368 A3	20040311	WO2003US17263	20030603

Probable Assignee: SYRINGE LLC

Assignee(s):(std)**:** GILLESPIE III RICHARD D ; GILLESPIE RICHARD D ; GILLESPIE RICHARD D III ; SALGADO GERVASIO ; SYRINGE LLC ; MAASKAMP RYAN ; MAASKAMP ARMAND ; BERMAN IRWIN R

Assignee(s): GERVASIO SALGADO ; IRWIN R BERMAN ; RICHARD D GILLESPIE ; INNOJECT INC

Inventor(s):(std)**:** BERMAN IRWIN R ; GERVASIO SALGADO ; GILLESPIE RICHARD D ; IRWIN R BERMAN ; RICHARD D GILLESPIE ; SALGADO GERVASIO ; MAASKAMP RYAN ; MAASKAMP ARMAND ; GILLESPIE RICHARD D III ; GILLESPIE III RICHARD D

Inventor(s): BERMAN IRWIN ; GILLESPIE RICHARD ; GILLESPIE RICHARD DIII

Agent(s): J BRUCE HOOFNAGLE; J BRUCE

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NI NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): A61F13/20 A61M31/00 A61M5/00 A61M5/31 A61M5/315 B65B1/00 (Advanced/Invention);
A61M5/315 A61M5/32 (Advanced/Non–invention);
A61F13/20 A61M31/00 A61M5/00 A61M5/315 (Core/Invention);
A61M5/315 (Core/Non–invention);

A61J (Subclass/Invention)

International class (IPC 1–7): A61F13/20 A61J A61M5/00 A61M5/31 A61M5/315

CPC: A61M5/31595 B65B1/00 A61M5/002 A61M5/00 A61M5/31515 A61M31/007 A61M5/31505 A61M5/329 A61M5/3291 Y10T29/49826 A61M31/00 A61M5/31555 A61M5/3156 A61M5/31563 A61M5/3158 A61M35/003 A61M2205/582

European class: A61M31/00 A61M35/00B A61M5/00 K61M205/58C K61M5/315B1C K61M5/315C2 K61M5/315E2B2 K61M5/315E2B4 K61M5/315E2B6 K61M5/315F2A1

US class: 1/1 141/2 29/428 604/11 604/11P 604/15 604/15S 604/187 604/187P 604/208 604/208S 604/218 604/220 604/227 604/227S 604/228 604/228S 604/275 604/279 604/500 604/500P 604/57 604/60 604/60P

Classification Explorer

Cited documents: USD394971 S1, US8092415 BB, US7465295 BB, US7329241 BB, US7322953 BB, US7217252 BB, US7141036 BB, US7125394 BB, US7090654 BB, US694971 A, US694971, US6589216 BA, US6427878 BA, US6423038 BA, US6378218 BB, US6378218 BA, US6258068 BA, US6258063 BA, US6250068 BA, US6241709 BA, US6235008 BA, US6168576 BA, US6168576 B1, US6162202 A, US6090082 A, US6063062 A, US5843043 A, US5830547 A, US5769825 A, US5728076 A, US5695481 A, US5688252 A, US5609581 A, US5599314 A, US5531703 A, US5478321 A, US5451216 A, US5451214 A, US5433352 A, US5431680 A, US5364363 A, US5279586 A, US5219448 A, US5217442 A, US5217436 A, US5048684 A, US4997423 A, US4997371 A, US4906239 A, US4874385 A, US4659327 A, US4654035 A, US4585445 A, US4567009 A, US4560376 A, US4492576 A, US4466426 A, US4439180 A, US4405306 A, US4361150 A, US4311140 A, US4073321 A, US4068663 A, US4017007 A, US4 A, US3965901 A, US3934586 A, US3894539 A, US3802435 A, US3702608 A, US3667461 A, US3536411 A, US3429642 A, US3225763 A, US3109427 A, US3076455 A, US2875761 A, US2764981 A, US2695023 A, US2631586 A, US2474496 A, US2014493 A, US2010211021 AA, US2009118661 AA, US2009112153 AA, US2008300575 AA, US2006264903 AA, US2005215958 AA, US2005033222 AA, US2004193102 AA, US1923409 A, US1818670 A, US1567009 A, EP0761173 A3, EP0761173 A2, DE3720346 A1, DE3513646 A1, CA2050765 AA,

Forward Citations: WO16151091, WO12164406, WO08081353, WO07118908, USD755956, USD726902, USD726901, USD724203, US9669158, US9642569, US9579180, US9555239, US9480797, US9452263, US9414904, US9186282, US9132262, US8961449, US8845596, US8834412, US8657793, US8551045, US8216193, US8118781, US7955309, US7951106, US7819845, US7794410, US7666160, US7435249, US7241274, US2015374474, US2015099011, US2014350456, US2014343511, US2014330203, US2014296744, US2014074051, US2013331763, US2013085456, US2011178497, US2011178475, US2009182267, US2008300575, US2008281274, US2008119778, US2007233002, US2007088270, US2005171463, US2005131313, JP5125220, JP2008284068, EP3072547, EP2701773,

Abstract:
Source: US2003225358A A device 60, for administering medicated cream, includes a cartridge 62 for containing the cream, a plunger head 100 for moving the cream from within the cartridge, and a stem 106 for moving the plunger head within the cartridge. The plunger head 100 includes a tapered receptor opening 148 for reception of a tapered stem structure 114. A rib 156 is formed on the cartridge 62, and a plurality of ribs 164 are formed on the stem 106, cooperate to provide tactile notification to a patient–user that measured doses of the cream have been administered.

0) US2003208223A – DEVICE INCORPORATING A HOLLOW ELEMENT FOR BEING...

78) Family number: 20918254 (US2003208223A) © PatBase

Title: DEVICE INCORPORATING A HOLLOW ELEMENT FOR BEING POSITIONED ALONG A BODY CAVITY OF A PATIENT AND METHOD OF POSITIONING THE SAME

Priority: AU20010246745 20010322 AU20060228085 20061013

Family:

Publication number	Publication date	Application number	Application date
AU2000006414 A0	20000415	AU2000PQ06414	20000323
AU2001246745 AA	20011003	AU20010246745	20010322
AU2001246745 BB	20060713	AU20010246745	20010322
AU200146745 A5	20011003	AU20010046745D	20010322
AU2006228085 AA	20061109	AU20060228085	20061013
EP1265670 A2	20021218	EP20010919684	20010322
EP1265670 A4	20050601	EP20010919684	20010322
JP2003527900 T2	20030924	JP20010568491T	20010322
US2003208223 AA	20031106	US20030239590	20030421
WO0170297 A2	20010927	WO2001IB00444	20010322
WO0170297 A3	20020523	WO2001IB00444	20010322

Probable Assignee: KLEINER D E

Assignee(s):(std)**:** DANIEL KLEINER ; KLEINER D E ; KLEINER DANIEL EDUARD ; KLEINER DANIEL

Assignee(s): DANIEL EDUARD KLEINER

Inventor(s):(std)**:** KLEINER DANIEL EDUARD

Inventor(s): DANIEL EDUARD KLEINER

Agent(s): ADAMS PLUCK; TSURUTA JUNICHI; NISHIYAMA MASAYA; HIGUCHI SOTOJI; ISHIDA TAKASHI

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN 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 NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

International class (IPC 8–9): A61B1/00 A61B1/01 A61B17/34 A61F2/06 A61F2/82 A61M25/00 A61M25/01 A61M25/10 A61M29/00 A61M31/00 (Advanced/Invention);
A61B10/00 A61B10/04 A61B17/00 A61B17/12 A61B17/32 A61B19/00 A61F2/95 (Advanced/Non–invention);
A61M29/00 (Core/Invention)

International class (IPC 1–7): A61B1/00 A61B1/005 A61M25/00 A61M25/01 A61M29/00 A61M31/00

CPC: A61B1/05 A61F2/82 A61B1/00151 A61B10/04 A61B17/1204 A61B17/12099 A61B17/12109 A61B17/12136 A61B17/3431 A61B2017/00557 A61B2017/3435 A61F2002/9528 A61M25/0119 A61M25/1006 A61M2025/1068 A61B2017/320048 A61B90/40

European class: A61B1/00P2 A61B1/01 A61B17/12P1T A61B17/12P5 A61B17/12P5B A61B17/12P7B A61B17/34G4C A61F2/06S A61F2/82 A61M25/01C5 A61M25/10B K61B10/04 K61B17/00N8 K61B17/32H2 K61B17/34G4E K61B19/38 K61F2/95R K61M25/10Z11

US class: 606/198 606/198P

Classification Explorer

Cited documents: WO9622122 A1, WO8705523 A1, US6039721 A, US5906587 A, US5730748 A, US5709657 A, US5374247 A, US5328469 A, US5171305 A, US4271839 A, US3589356 A, US3506011 A, US3433215 A, US3433214 A, US3168092 A, EP0515085 A2, DE2406823 A1,

Forward Citations:

WO15070095, WO14121207, WO09010964, WO09010964, WO06099738, WO06075319, US9566179, US9526641, US9457133, US9439662, US9427557, US9364356, US9339404, US9326876, US9254210, US9114037, US9101503, US9101391, US8986362, US8980297, US8979917, US8956398, US8945167, US8936634, US8926587, US8894680, US8845712, US8828071, US8827951, US8821562, US8808347, US8801774, US8795347, US8769796, US8740968, US8721674, US8702781, US8652198, US8585747, US8574282, US8556851, US8486132, US8460358, US8435282, US8388574, US8317859, US8282680, US8257427, US8177831, US8109985, US8083788, US8080048, US8070789, US8016871, US8016870, US7938852, US7922755, US7918881, US7905913, US7892274, US7892273, US7553324, US7402168, US7357812, US7351255, US7326236, US7309350, US7300456, US7294146, US7270668, US2015216559, US2015039011, US2015005724, US2012116491, US2011319924, US2011166637, US2011130784, US2010268076, US2010204639, US2010023106, US2009248137, US2009204069, US2009182411, US2009018486, US2009018446, US2008027421, US2007083158, JP2011120891, JP2011056251, JP2010000242, JP2009101177, JP2005511140, EP2950873, EP2563448, EP2563448, EP2236168, EP1654028, EP1549203, EP1460973, AU2002359588,

Abstract:
Source: US2003208223A There is provided apparatus (14) incorporating an elongate hollow element (22) for being positioned along a body cavity of a patient. The hollow element has a leading region and a trailing region and is arranged for being progressively everted along the hollow element from the leading region to thereby be increasingly extended for progressively lining the body cavity as the trailing region follows along. The apparatus generally further comprises an enclosure comprising an insertion head (16) for being inserted into an entrance of the body cavity and a flexible bag (18) in which the hollow element is housed. The hollow element is extended from the insertion head by increasing pressure within the enclosure. Methods for positioning the hollow element along the body are disclosed. The apparatus is particularly suitable for use as a tamponade device for use in the lower gastrointestinal tract for stemming internal bleeding.

79) Family number: 44572906 (US2011172697A) © PatBase

Title: MEDICAL DEVICE, METHOD AND SYSTEM FOR TEMPORARY OCCLUSION OF AN OPENING IN A LUMEN OF A BODY

Priority: SE20080050015 20080915 US20080097315P 20080916 WO2009EP61982 20090915 US20090063926 20090915

Family:

Publication number	Publication date	Application number	Application date
AU2009290834 AA	20100318	AU20090290834	20090915
AU2009290834 BB	20150820	AU20090290834	20090915
CA2824889 AA	20120229	CA20092824889	20090915
CN102256659 A	20111123	CN200980145208	20090915
EP2340076 A1	20110706	EP20090783062	20090915
IL211751 A0	20110630	IL20090211751	20090915
IL211751 A1	20150831	IL20090211751	20090915
IN02504CN2011 A	20120302	IN2011CN02504	20110415
JP2012502679 T2	20120202	JP20110526515T	20090915
JP5744736 B2	20150708	JP20110526515T	20090915
SG195610 A1	20131230	SG20130079991	20090915
US2011172697 AA	20110714	US20090063926	20090915
WO10029190 A1	20100318	WO2009EP61982	20090915
ZA201102788 A	20130626	ZA20110002788	20110414

Probable Assignee: AEEG AB

Assignee(s):(std): AEEG AB ; JOENSSON ANDERS ; JONSSON ANDERS ; ANDERS JOENSSON

Assignee(s): JONSSON ANDERSIGELKOTTSVAGEN 99S−167 57BROMMASE ; ANDERS JONSSON ; AEEG ABP.O. BOX 1038S−251 10HELSINGBORGSE ; AB CYPRESSEN NR 13059 ; AB CYPRESSEN NR 13059PLOJAREVAGEN 7SE−252 84HELSINGBORGSE

Inventor(s):(std): ANDERS JOENSSON ; JOENSSON ANDERS ; JONSSON ANDERS

Inventor(s): JONSSON ANDERSIGELKOTTSVAGEN 99S−167 57BROMMASE ; ANDERS JONSSON ; AEEG AB

Agent(s): WALLINGTON DUMMER; GRAHAM LORELEI G; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; GE EHRLICH 1995 LTD; PINTAS PTE LTD; KRAHBICHLER ERIK

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

International class (IPC 8–9): A61B17/00 A61B17/12 A61F2/01 A61F2/958 A61M A61M25/00 A61M25/10 A61M29/00 A61M29/02 A61M39/22 (Advanced/Invention); A61B A61F A61M (Subclass/Invention)

CPC: A61B17/12036 A61B17/1204 A61B17/12045 A61B17/12104 A61B17/12109 A61B17/12118 A61B17/12136 A61B17/12145 A61B17/1215 A61B17/12172 A61B17/12177 A61B2017/00597 A61B2017/0061 A61B2017/00783 A61B2017/00867 A61B2017/22054 A61F2/013 A61M25/1002 A61M25/104 A61M29/02 A61M2025/0024 A61M2025/1052 A61M2025/1097 A61M2039/2406 A61M2039/246 A61M2039/2466

European class: A61B17/12P1P A61B17/12P1T A61B17/12P1T2 A61B17/12P5A A61B17/12P5B A61B17/12P5B1S A61B17/12P7B A61B17/12P7C1 A61B17/12P7C3 A61B17/12P7W1 A61B17/12P7W3 A61M25/10A A61M25/10P A61M29/02 K61B17/00P5F K61B17/00P5J K61B17/00R4V K61B17/00S12 K61B17/22H2 K61F2/01D K61M25/00R1A K61M25/10Z24 K61M25/10Z4 K61M39/24B K61M39/24Q2B K61M39/24Q2C

US class: 606/194 606/194P

Classification Explorer

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Forward Citations: WO15099089, WO14199381, WO14055547, WO14008460, WO14008460, WO13034764, US9445828, US9282970, US2015094752, US2013297003, EP2903569, DE102012214477, CN103750920, CN103252013, CN102705510,

Abstract:
Source: US2011172697A A medical system is disclosed that has three basic components; a retractable sheet, a first balloon that has a centrally arranged hollow, and a collapsible/expandable support structure at the hollow. The first balloon is for instance mounted/molded onto the exterior surface of the support structure. The aggregate of support structure and the first balloon is positioned, and once the sheet has been retracted from the first balloon, the first balloon is inflated. The support structure may be self−expandable or expandable by an expansion unit, such as a further balloon arranged at its inside. The lumen of the support structure is chosen to be smaller than that of a main lumen. The outside diameter of the inflated first balloon is chosen to be larger than the interior diameter of the main lumen. This procedure may be done using standard Seldinger technique and fluoroscopy. This makes the system user friendly and increases patient safety, as a well established clinical method may be used with some modifications according to the invention.

0) US2003149463A – DEVICE FOR PLUGGING AN OPENING SUCH AS IN A WAL...

80) Family number: 29681357 (US2003149463A) © PatBase

Title: DEVICE FOR PLUGGING AN OPENING SUCH AS IN A WALL OF A HOLLOW OR TUBULAR ORGAN INCLUDING BIODEGRADABLE ELEMENTS

Priority: EP19970922269 19970506 EP20010980098 20011107 SE19960001752 19960508 US19980180379 19981106 WO1997SE00747 19970506 US20020306481 20021127 WO2003CH00776 20031124 US20000707691 20001107 WO2001CH00653 20011107

Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: CARAG AG

Assignee(s):(std)**:** CARAG AG ; CARAG AG BAAR ; CARAG S A ; CARAG SA ; SOLYMAR LASZLO ; CARDIAC SERVICE HB ; KARAG AG ; THOMMEN DANIEL THOMAS ; BERNHARD JEROME

Assignee(s): CAR AG

Inventor(s):(std)**:** DANIEL THOMAS THOMMEN ; JEROME BERNHARD ; L SOLYMAR ; LASZLO SOLYMAR ; SOLYMAR LASZLO ; THOMMEN DANIEL ; THOMMEN DANIEL THOMAS ; BERNHARD JEROME ; THOMAS THOMMEN DANIEL ; SOLIMAR LASLO ; JEROME SOLYMAR LASZLO THOMMEN ; SOLYMAR L

Inventor(s): SOLYMAR LASZLO THOMMEN DANIEL THOMAS BERNHARD ; SOLYMAR LASZLO THOMMEN DANIEL THOMAS BERNHARD JERO ; TOMMEN DENIEHL TOMAS ; BERNARD ZHEROM

Agent(s): CLERC NATALIA ET AL; BREMI TOBIAS HANS; BREMI TOBIAS HANS ET AL; WAGNER KATHRIN ET AL; CLERC NATALIA; WATANABE KIHEI; BANIAK PINE AND GANNON

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 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

International class (IPC 8–9): A61B17/00 A61B17/04 A61B17/08 A61B17/12 A61B17/135 A61F2/00 A61F2/02 A61F2/04 A61F2/24 A61F2/82 A61F2/84 A61L31/06 A61L31/14 (Advanced/Invention); A61B17/04 A61B17/12 A61F2/24 (Advanced/Non–invention); A61B17/00 A61B17/03 A61B17/04 A61B17/12 A61F2/00 A61F2/82 (Core/Invention); A61F2/24 (Core/Non–invention)

International class (IPC 1–7): A61B17/00 A61B17/03 A61B17/04 A61B17/08 A61B17/12 A61B17/135 A61F2/06 A61M1/10

CPC: A61B17/12109 A61B17/0057 A61B17/12022 A61B17/12122 A61B17/12172 A61B2017/00557 A61B2017/00575 A61B2017/00592 A61B2017/00597 A61B2017/00606 A61B2017/00623 A61B2017/00867 A61B2017/00243 A61B2017/00619 A61L31/06 A61L31/148

European class: A61B17/00P A61B17/12P A61B17/12P5B A61B17/12P5H A61B17/12P7W1 A61L31/06 A61L31/14K K61B17/00E1C K61B17/00N8 K61B17/00P5 K61B17/00P5E K61B17/00P5F K61B17/00P5H K61B17/00P5L K61B17/00P5R K61B17/00S12

US class: 623/1.1 623/1.100P 623/1.12 623/1.16 623/1.36 623/1.360S 623/1.38 623/1.380S 623/11.2 623/11.6 623/3.1 623/3.16

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Forward Citations: WO16000661, WO15052125, WO14180702, WO14078078, WO12156415, WO12135037, WO12134762, WO10142051, WO09102831, WO09102831, WO08022479, WO07124862, WO07124862, WO07087497, WO05074813, WO05025448, WO04052213, WO04047649, WO0238051, WO0238051, WO0141649, WO0110306, WO0069365, WO0069365, WO0012012, USRE42834, USD493223, US9649097, US9636094, US9629635, US9597087, US9585668, US9554783, US9545300, US9545257, US9545247, US9522217, US9517072, US9492174, US9474517, US9468430, US9451939, US9433518, US9414842, US9381006, US9332977, US9326759, US9320591, US9320589, US9320503, US9295473, US9295456, US9289298, US9282969, US9259337, US9259267, US9241695, US9216014, US9198757, US9198670, US9168161, US9155644, US9149263, US9138562, US9084603, US9078658, US9078630, US9028527, US9023074, US9023065, US9017377, US9017375, US9017373, US9017361, US9017350, US9005242, US8992556, US8968353, US8961590, US8956389, US8945158, US8932311, US8920489, US8920430, US8915952, US8870913, US8828049, US8814947, US8795329, US8792966, US8784448, US8777985, US8764848, US8764790, US8758403, US8758401, US8753362, US8747483, US8715340, US8715160, US8690897, US8685044, US8668717, US8668716, US8663274, US8636765, US8617205, US8579936, US8579798, US8574264, US8568447, US8568431, US8551135, US8506624, US8500751, US8480709, US8480706, US8460173, US8430934, US8382796, US8372114, US8372113, US8372112, US8361111, US8361110, US8333798, US8333786, US8333201, US8308760, US8303623, US8292910, US8292907, US8277480, US8267852, US8262695, US8262694, US8262692, US8257389, US8226711, US8211142, US8157836, US8157829, US8128553, US8114102, US8092367, US8088060, US8084663, US8070826, US8070805, US8062379, US8029532, US8029522, US8011370, US7988690, US7981020, US7976564, US7972354, US7967840, US7963952, US7887562, US7883539, US7871419, US7867250, US7846179, US7842053, US7815661, US7797056, US7790945, US7780700, US7766820, US7744652, US7740640, US7722523, US7717937, US7704268, US7695425, US7691128, US7691112, US7686828, US7678145, US7678132, US7678123, US7666224, US7666203, US7658747, US7582103, US7575586, US7479155, US7452363, US7431729, US7422602, US7419498, US7402320, US7377936, US7338514, US7318833, US7288105, US7220265, US6949116, US6911037, US6712836, US6623508, US6596013, US6171329, US2014155932, US2014142623, US2013030455, US2011077683, US2011046716, US2010324652, US2010324538, US2010217380, US2010198251, US2010185233, US2010160945, US2010160898, US2010145194, US2009221967, US2009221915, US2009112303, US2009099647, US2008140177, US2008091235, US2008077180, US2007282430, US2007225759, US2007173928, US2007112372, US2007078302, US2006287661, US2006190076, US2006052823, US2006052822, US2005070957, US2005070935, US2005070926, US2003149463, RU2533972, JP6042889, JP2014531917, JP2014521377, JP2012130735, JP2010508093, JP2010501213, JP2009542376, JP2009514625, JP2009213900, JP2008536534, JP2007519502, JP2007097778, JP2005103300, ITVI20110040, EP2861293, EP2801325, EP2688486, EP2524653, EP2399526, EP2098186, EP2062540, EP1994887, EP1891902, EP1793745, EP1718213, EP1695674, EP1665990, EP1331885, EP1214911, EP1156742, EP1107700, EP1079741, DE102006036649, CN105555231, CN105307575, CN104337553, CN104039241, CN103533897, CN103533897, CN103479422, CN103479421, CN103479405, CN103347464, CN103099652, CN103099652, CN102469996, CN102469996, CN102458263, CN102458263, CH701269, AU2012238091,

Abstract:
Source: US2003149463A An implant for occluding a passage in a circulatory system is provided. The implant in one form includes a plurality of thin wire−like members each having a proximal and a distal end and a first holder to which the distal ends of the members are attached. The proximal ends of the members are attached to a second holder. The implant includes an expansible occluding body attached to the members at a point intermediate the first and second holders. A carrier rod is releasably attached to the first holder and upon which the second holder is slidably received. A driving implement is located on the carrier rod, the driving implement contacting the second holder and movable toward the first holder along the carrier rod. The members are attached to the first and second holders in a manner to cause the members to execute a twisting motion relative to the longitudinal axis to yield a plurality of generally radially extending loops combining to form a first fixation structure adjacent the distal face of the occluding body, and a second fixation structure of generally radially extending loops

adjacent the proximal face of the occluding body. In another form, the implant includes a balloon structure which is expanded from within by a spring–like mechanism in situ, or by the foregoing radially extending loop mechanism.

0) US2003129741A – PETAL–ARRAY SUPPORT FOR USE WITH MICROPLATES

81) Family number: 29774837 (US2003129741A) © PatBase

Title: PETAL–ARRAY SUPPORT FOR USE WITH MICROPLATES

Priority:

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Family:

Publication number	Publication date	Application number	Application date
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BIOSYSTEMS GROUP CORP ; APPLIED BIOSYSTEMS INC ; FAWCETT ANDRIAN ; BRYNING ZBIGNEW T

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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 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 SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9)**:** B01D15/00 B01D15/08 B01J13/14 B01J19/00 B01J39/08 B01J39/18 B01J39/26 B01J47/00 B01L11/00 B01L3/00 B01L3/02 B01L9/00 B01L99/00 B32B27/04 B32B27/12 B32B5/16 B81B1/00 B81B3/00 B81B5/00 B81B7/00 B81B7/04 B81C99/00 C02F1/42 C07H1/06 C07H19/00 C07H21/02 C07H21/04 C12M1/00 C12M1/10 C12M1/14 C12M1/22 C12M1/34 C12M1/40 C12N15/09 C12N15/10 C12P19/34 C12Q1/00 C12Q1/68 C40B60/00 F04B43/08 F04B43/12 F15C5/00 F16K1/00 F16K1/10 F16K13/08 F16K13/10 F16K15/04 F16K31/00 F16K31/02 F16K31/12 F16K49/00 F16K7/00 F16K7/16 F16K99/00 G01N1/00 G01N1/10 G01N1/18 G01N15/06 G01N21/00 G01N27/453 G01N33/00 G01N33/48 G01N33/487 G01N33/53 G01N35/00 G01N35/02 G01N35/08 G01N37/00 G01N9/30 G05D7/00 (Advanced/Invention);
B01D15/34 B01D15/36 B01L7/00 C12P19/34 C12Q1/68 G01N1/34 G01N35/08 (Advanced/Non–invention);
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B01D15/26 B01L7/00 G01N1/34 G01N35/08 (Core/Non–invention);
B01J B01L C12M (Subclass/Invention)

International class (IPC 1–7)**:** B01D15/00 B01J13/14 B01J19/00 B01J39/06 B01J39/08 B01J39/18 B01J47/00 B01L11/00 B01L3/00 B01L3/02 B32B27/04 B81B B81B1/00 B81B3/00 C02F1/42 C07H19/00 C07H21/02 C07H21/04 C12M1/00 C12M1/14 C12M1/22 C12M1/34 C12N15/09 C12N15/10 C12P19/34 C12Q1/00 C12Q1/68 F04B43/08 F04B43/12 F16K1/00 F16K1/10 F16K13/10 F16K31/00 F16K31/02 F16K31/12 F16K49/00 G01N1/10 G01N1/18 G01N21/00 G01N27/453 G01N33/53 G01N35/00 G01N35/02 G01N35/08 G01N37/00 G05D7/00

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B01D15/34 G01N2001/4016 B33Y80/00

European class: B01J13/14 B01J20/32H4 B01J47/00K B01J47/00M B01L3/00C6M10 B01L3/00C6M12 B01L3/5025 B01L3/5027 B01L3/5027B B01L3/5027E B01L3/5027F B01L3/5027G B01L3/50853 B01L9/527 F04B19/00M F04B43/08B F04B43/12D F15C5/00 F16K15/04 F16K99/00M F16K99/00M2E F16K99/00M2I F16K99/00M2K F16K99/00M2M F16K99/00M4 F16K99/00M4B F16K99/00M4D2 G01N33/543D L01D15/34 L01D15/36B L01L200/02D2 L01L200/06F L01L200/06M L01L200/06N L01L200/10 L01L3/5027A L01L300/04B L01L300/06A L01L300/06B2 L01L300/06B6 L01L300/06D L01L300/06E L01L300/08A L01L300/08A2 L01L300/08B12 L01L300/08B4 L01L300/08E L01L300/08E2 L01L300/08F L01L300/12A L01L300/18A L01L400/04F2 L01L400/04F4 L01L400/04M8 L01L400/06M8 L01L400/06P L01L400/06P2 L01L400/08P2 L01L7/52 L01L9/527 R16K99/00M6 R16K99/00P8 R16K99/00Y2 S01N1/40A3 S01N1/40P S01N21/03A S01N21/03K

US class: 137/1 137/334 137/341 137/533 137/533.11 137/561.00RP 137/561R 137/67 137/829 204/450 204/450S 204/600 210/198.2 210/198.200S 210/263 210/263S 210/502.1 210/502.100S 210/66 210/660 251/11 251/11P 251/331 251/331P 251/368 251/61 251/61.1 251/61S 422/100 422/100P 422/100S 422/101 422/101P 422/102 422/103 422/103P 422/104 422/129 422/131 422/400 422/400P 422/50 422/501 422/502 422/502P 422/503 422/503P 422/503S 422/504 422/504P 422/504S 422/506 422/507 422/513 422/527 422/534 422/535 422/537 422/544 422/547 422/55 422/58 422/607 422/63 422/64 422/64P 422/68.1 422/70 422/72 422/99 422/99P 427/213 427/213S 428/403 428/403S 428/407 428/407P 435/161 435/283.1 435/285.1 435/286.2 435/287.2 435/287.200P 435/287.200S 435/287.3 435/287.300P 435/288.4 435/288.400S 435/288.5 435/288.500 435/288.500S 435/288.6 435/288.7 435/289.1 435/289.100S 435/297.5 435/303.1 435/303.100 435/303.100S 435/305.2 435/305.3 435/305.300 435/305.300P 435/309.1 435/395 435/4 435/4S 435/6.12 435/7.1 435/7.100P 436/106 436/111 436/161 436/164 436/174 436/175 436/177 436/178 436/178P 436/18 436/180 436/180S 436/43 436/45 436/63 436/809 436/809S 436/94 506/33 506/33P 536/23.1 536/23.100P

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Abstract:
Source: US2003129741A The present invention provides, among other things, supports upon which one or more species can be adsorbed, captured, or immobilized for biochemical procedures. In various embodiments, the supports include a plurality of deformable petal−like members that provide binding sites for biochemical species. The invention provides an apparatus and method for the ready insertion of the petal−like members into respective wells of a multi−well microplate (e.g., a standard−format 96− or 384−well plate).

0) US2004204670A – ULTRASOUND CATHETER DEVICES AND METHODS

82) Family number: 31060897 (US2004204670A) © PatBase

Title: ULTRASOUND CATHETER DEVICES AND METHODS

Priority:

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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 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

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Abstract:
Source: US2004204670A Ultrasound catheter devices and methods provide enhanced disruption of blood vessel obstructions. Generally, ultrasound catheters include an elongate flexible catheter body with one or more lumens, an ultrasound transmission member extending longitudinally through the catheter body lumen and a distal head coupled with the transmission member and positioned adjacent the distal end of the catheter body for disrupting occlusions. Improved features of ultrasound catheters include prevention of independent rotation of the ultrasound transmission member, a safety anchor for the distal head, a one−piece transmission member/distal head and the like.

0) US2003181305A – METHOD AND APPARATUS FOR THE CONTINUOUS SEPARAT...

83) Family number: 29069089 (US2003181305A) © PatBase

Title: METHOD AND APPARATUS FOR THE CONTINUOUS SEPARATION OF BIOLOGICAL FLUIDS INTO COMPONENTS

Priority:

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Family:

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International class (IPC 8–9): A61K35/14 A61K41/00 A61M1/00 A61M1/02 A61M1/10 A61M1/14 A61M1/36 A61M37/00 B01D17/038 B01D21/26 B01D33/15 B04B1/00 B04B1/02 B04B11/00 B04B5/00 B04B5/04 B04B7/02 B04B7/04 B04B7/12 B04B9/12 C02F1/38 C02F1/44 F04B43/12 F16L33/00 F16L39/02 G01N G01N15/05 G01N33/49 (Advanced/Invention); A61K41/00 A61M1/00 A61M1/02 A61M1/10 A61M1/36 A61M37/00 B01D33/15 B04B1/00 B04B5/00 B04B9/00 C02F1/38 F04B43/00 F04B43/12 F16L33/00 F16L39/00 (Core/Invention); A61K A61M B04B G01N (Subclass/Invention)

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Abstract:
Source: US2003181305A The present invention relates to systems, methods and apparatus for improving the yield for separating components of fluids, for example biological or sensitive fluids such as blood, and improving the component yield, for example, from donated whole blood by separating its components by density in a centrifuge bowl with a multi−axial lumen. The apparatus, system, and method eliminate the need to batch−type separate blood and can reduce the time needed to treat patients suffering from T−cell or white blood cell mediated diseases or conditions to less than 70 minutes. In one aspect, the invention is a centrifuge bowl (10) comprising an outer housing (100); a core (200); a lower plate (300); a lumen (400); a first bowl channel (420) within said lumen (400) for inflowing said fluid (800); a second bowl channel (410) for removing a first separated fluid component (810); and a third bowl channel (740) for removing a second separated fluid component (820).

0) US2009126906A – ISOLATED GAS COOLING SYSTEM FOR AN ELECTRONIC D...

84) Family number: 43255448 (US2009126906A) © PatBase

Title: ISOLATED GAS COOLING SYSTEM FOR AN ELECTRONIC DISPLAY

Priority:

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Assignee(s): MFG RESOURCES INT ; MFG RESOURCES INT INC ALPHARETTA ; MANUFACTURING RESOURCES INTERNATIONAL, INC. ; MANUFACTURING RESOURCES INTERNATIONAL INC US ; MANUFACURING RESOURCES INT INC ; BANK OF AMERICA NA ; FIFTH THIRD BANK ; MANFACTURING RESOURCES INT INC ; ETH ZURICH

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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 QA RO RS RU 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

International class (IPC 8–9): A47B81/06 A61B5/00 A61B5/1455 B29C47/88 B29C65/00 B32B15/00 B32B17/00 B32B17/06 B32B17/10 B32B3/04 B32B37/12 B32B37/26 C03C27/10 F21K99/00 F21S4/00 F21V11/00 F21V19/02 F21V21/00 F21V23/00 F21V29/00 F21V29/02 F21V29/503 F21V29/67 F21V29/70 F21V29/74 F21V29/83 F21V7/04 F24H3/02 F28D15/00 F28D9/00 F28F13/00 F28F27/02 F28F3/00 F28F3/02 F28F3/08 G02B1/00 G02B1/11 G02F G02F1/01 G02F1/13 G02F1/133 G02F1/1333 G02F1/1335 G02F1/13357 G02F1/1347 G03B21/16 G05D23/00 G06F1/16 G06F1/20 G09F13/04 G09F13/08 G09F13/22 G09F9/00 G09F9/33 G09F9/35 G09F9/37 G12B15/02 H01J17/28 H01L23/467 H01L51/50 H01L51/52 H04N5/64 H05B33/08 H05B37/02 H05B41/14 H05K13/00 H05K5/00 H05K5/02 H05K5/06 H05K7/20 (Advanced/Invention); A61N5/06 F28D9/00 F28F3/02 F28F3/12 G02B1/11 G02F1/1333 G02F1/1335 H01J17/28 H01L51/50 (Advanced/Non-invention); A61B5/145 B32B17/00 B32B37/14 F21S4/00 F21V21/00 F21V29/00 F28D15/00 F28F13/00 G02B1/00 G02B1/10 G02F1/13 G05D23/00 G09F13/22 G09F9/33 G09F9/35 G09F9/37 H01J17/02 H01L51/50 H05B37/02 H05B41/14 H05K5/02

H05K7/20 (Core/Invention);
F21K99/00 G02F1/13357 G09F9/00 H05B33/08 H05K7/20 (Core/Non-invention)

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Abstract:
Source: US2009126906A A preferred embodiment relates to a cooling system and a method for cooling an electronic display. Exemplary embodiments include a transparent gas cooling chamber. The components in the system are preferably housed within the electronic display housing. The cooling chamber defines a gas compartment that is anterior to and coextensive with the electronic display surface. Fans may be used to propel the isolated gas through the cooling chamber. The circulating gas removes heat directly from the electronic display surface by convection. The isolated gas is transparent or at least semi−transparent. The image quality of an exemplary embodiment remains essentially unchanged, even though the gas is flowing through a narrow channel over the visible face of the electronic display surface.

0) US2002082700A – OPEN INTERVERTEBRAL SPACER

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Title: OPEN INTERVERTEBRAL SPACER

Priority: EP19980926162 19980603 US19970867963 19970603 US20030699175 20031031 US20040756971 20040113 US20010035074 20011228 US19990453787 19991203 US20100660539 20100301 US20050094699 20050330 WO1998US11159 19980603

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Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GE GH GM GN GR GW HU ID IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW

International class (IPC 8–9): A61B17/16 A61B17/32 A61B17/86 A61B17/88 A61F2/00 A61F2/02 A61F2/28 A61F2/30 A61F2/44 A61F2/46 A61L27/00 A61L27/10 A61L27/12 A61L27/22 B23G5/00 (Advanced/Invention); A61B17/88 A61F2/00 A61F2/02 A61F2/30 A61L27/00 (Advanced/Non–invention)

International class (IPC 1–7): A61B17/16 A61B17/32 A61B17/86 A61B17/88 A61F2/28 A61F2/44 A61F2/46 A61L27/00 B23G5/00

CPC: Y10S623/908 A61F2/4644 A61B17/1604 A61B17/1671 A61B17/8875 A61F2/28 A61F2/30724 A61F2/3094 A61F2/442 A61F2/446 A61F2/4601 A61F2/4611 A61F2/468 A61F2002/2817 A61F2002/2835 A61F2002/2839 A61F2002/30057 A61F2002/30062 A61F2002/30131 A61F2002/30143 A61F2002/30224 A61F2002/30596 A61F2002/30616 A61F2002/30617 A61F2002/30772 A61F2002/30795 A61F2002/30797 A61F2002/3082 A61F2002/30871 A61F2002/4475 A61F2002/448 A61F2002/4627 A61F2002/4635 A61F2002/4649 A61F2210/0004 A61F2230/0013 A61F2230/0017 A61F2230/0069 A61F2250/0097 A61F2310/00011 A61F2310/00179

European class: A61B17/16S4 A61F2/28 A61F2/44F2 A61F2/46A A61F2/46B7 A61F2/46G K61B17/16C K61B17/88S K61F2/00K4H K61F2/00Y3 K61F2/28D K61F2/28G K61F2/28G1 K61F2/30A1N28 K61F2/30A1W1 K61F2/30A2K2H K61F2/30A2K4H K61F2/30A2Y3 K61F2/30A3W24A K61F2/30A3W32S K61F2/30A3W34 K61F2/30B2 K61F2/30L2A K61F2/30L2B K61F2/30L2B4 K61F2/30L2G K61F2/30L2Q11 K61F2/30M K61F2/44D K61F2/44H K61F2/44M K61F2/46B35P K61F2/46E K61F2/46G9 K61F2/46R K61F210/00A K61F230/00K2H K61F230/00K4 K61F230/00Y3 K61F250/00W99A K61F310/00A2 K61F310/00A6

US class: 606/104 606/104P 606/61 606/76 606/86A 623/16 623/17 623/17.11 623/17.110P 623/17.110S 623/17.16 623/17.160P 623/17.160S 623/23.63 623/908 623/911 623/911S 623/925 623/925S

Classification Explorer

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Abstract:
Source: US2002082700A Open chambered spacers, implanting tools and methods are provided. The spacers 500' include a body 505' having a wall 506' which defines a chamber 530' and an opening 531' in communication with the chamber 530'. In one embodiment the wall 506' includes a pair of arms 520', 521' facing one another and forming a mouth 525' to the chamber 530'. Preferably, one of the arms 520' is truncated relative to the other, forming a channel 526. In one aspect the body 505' is a bone dowel comprising an off−center plug from the diaphysis of a long bone. The tools 800 include spacer engaging means for engaging a spacer and occlusion means for blocking an opening defined in the spacer. In some embodiments, the occlusion means 820 includes a plate 821 extendable from the housing 805. In one specific embodiment the plate 821 defines a groove 822 which is disposed around a fastener 830 attached to the housing 805 so that the plate 821 is slideable relative to the housing 805.

0) US2003060755A – METHODS AND APPARATUS FOR TREATING BODY TISSUES...

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Title: METHODS AND APPARATUS FOR TREATING BODY TISSUES AND BODILY FLUID VESSELS

Priority: US19990397806 19990917 US20000705963 20001103 US20060433198 20060511 US20080336401 20081216 US20020272317 20021015 US20140495645 20140924 WO2000US23905 20000830 US20140509551 20141008

Family:

Publication number	Publication date	Application number	Application date
AU200070948 A5	20010417	AU20000070948D	20000830
CA2385066 AA	20020315	CA20002385066	20000830
EP1231976 A1	20020821	EP20000959665	20000830
EP1231976 A4	20051130	EP20000959665	20000830
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US2007265563 AA	20071115	US20060433198	20060511
US2009093791 AA	20090409	US20080336401	20081216
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US6464681 BA	20021015	US20000705963	20001103
US7179250 BB	20070220	US20020272317	20021015
WO0119446 A1	20010322	WO2000US23905	20000830
WO07133959 A2	20071122	WO2007US68189	20070503
WO07133959 A3	20081009	WO2007US68189	20070503

Probable Assignee: HEUSER RICHARD R

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Assignee(s): RICHARD R HEUSER

Inventor(s):(std)**:** HEUSER RICHARD R

Inventor(s): RICHARD R HEUSER

Agent(s): FETHERSTONHAUGH AND CO; KOLISCH HARTWELL PC

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

International class (IPC 8–9): A61B17/00 A61B17/12 A61B17/3203 A61B17/3207 A61B18/14 A61B18/18 A61B18/20 A61F2/958 A61K48/00 A61M25/10 A61M29/00 A61M31/00 A61M5/158 A61M5/178 (Advanced/Invention); A61K48/00 A61M29/00 A61M5/178 (Core/Invention)

International class (IPC 1–7): A61M29/00 A61M31/00

CPC: A61M25/1011 A61B17/00491 A61B17/0057 A61B2017/00557 A61B2017/00575 A61B17/3207 A61B18/18 A61M25/104 A61B17/12136 A61B17/32037 A61B17/3478 A61B18/1492 A61B2017/22042 A61B2017/22048 A61B2017/22094 A61B2018/00285 A61B2018/00422 A61M25/1002 A61M2025/1052 A61M5/158 A61B18/201 A61M2025/105 A61M2025/1063 A61M2205/054 A61B2017/00261 A61B2018/0041 A61M2210/12 A61M25/10 A61M25/0067 A61M25/007 A61M25/0084 A61M2025/0089

European class: A61B17/00P A61B17/12P7B A61B17/3203R A61B17/34Q A61B18/14V A61M25/00T A61M25/00T40A A61M25/00T5 A61M25/10 A61M25/10A A61M25/10D K61B17/00L K61B17/00N8 K61B17/00P5 K61B17/22G3 K61B17/22G6B K61B17/22T K61B18/00B16A2 K61B18/00F6C6 K61B18/14V K61M25/00T10C K61M25/00T40A3 K61M25/10Z4

US class: 604/103.01 604/103.010S 604/103.11 604/164.01 604/164.010S 604/500 604/506 604/508 604/508S 604/509 604/509P 604/907 604/96.01 604/96.010P 606/159 606/194 606/194S 606/33 606/41 606/41S

Classification Explorer

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Forward Citations: WO16027198, WO12054349, WO12054349, WO11028665, WO09144561, WO09144561, WO08066920, WO08066920, WO07133959, US9579489, US9545263, US9532803, US9486239, US9456842, US9408998, US9406192, US9402981, US9402649, US9358042, US9326792, US9314329, US9302084, US9204893, US9202346, US9174032, US9108018, US8998936, US8992506, US8956376, US8932315, US8721675, US8545418, US8470013, US8454427, US8257383, US8257382, US8133243, US8062321, US8052737, US7914492, US7862564, US7785322, US7402141, US7374567, US7335199, US7300459, US6811417, US6663589, US2014277012, US2014276402, US2014018833, US2011121735, US2011054503, US2010286758, US2010160899, US2010106240, US2009012429, US2008294104, US2008125796, US2007265563, US2007185567, US2007073287, US2007027446, US2006241689, US2006116674, US2006047222, US2005256519, US2005149012, US2004186470, US2004175987, US2004148005, TWI371918,

Abstract:
Source: US2003060755A Methods for treating bodily tissues and fluid vessels are disclosed. According to a method of repairing a perforation in a bodily fluid vessel, a viscous, moldable substance is inserted into the vessel at the location of the perforation. A path is opened through the moldable substance to permit fluid flow through the vessel. According to a method of introducing a tissue−killing substance into a bodily fluid vessel, a catheter is provided that has a blocking mechanism configured to selectively block and unblock the vessel. The catheter also has a delivery system that is configured to introduce the tissue−killing substance into the vessel. The vessel is substantially blocked upstream of a selected tissue using the blocking mechanism. The tissue−killing substance is introduced into the vessel through the delivery system, and the vessel is unblocked when the tissue−killing substance has substantially traveled toward the selected tissue. According to a method of occluding a bodily fluid vessel, a catheter is provided that has a first passage. The first passage has an occlusion element housed therein. The catheter is positioned in the vessel, and the occlusion element is moved out of the passage and into the vessel to thereby occlude the vessel. A catheter is also disclosed that may be used with the above methods.

0) US2009082803A – BRAIDED VASCULAR DEVICES HAVING NO END CLAMPS

87) Family number: 43059520 (US2009082803A) © PatBase

Title: BRAIDED VASCULAR DEVICES HAVING NO END CLAMPS

Priority: US20070861954 20070926 US20160231258 20160808 WO2008US73666 20080820

Family:

Publication number	Publication date	Application number	Application date
AU2008305439 AA	20090402	AU20080305439	20080820
AU2008305439 BB	20131212	AU20080305439	20080820
BRPI0817288 A2	20150310	BR2008PI17288	20080820
CA2700592 AA	20090402	CA20082700592	20080820
CA2700592 C	20140527	CA20082700592	20080820
CN101815472 A	20100825	CN200880109387	20080820
CN101815472 B	20121121	CN200880109387	20080820
DE202008018523 U1	20150603	DE200820018523U	20080820
EP2194885 A1	20100616	EP20080833032	20080820
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IN02158DN2010 A	20110204	IN2010DN02158	20100326
JP2010540084 T2	20101224	JP20100526991T	20080820
JP5331118 B2	20131030	JP20100526991T	20080820
KR20100061506 A	20100607	KR20107006541	20080820
MX2010003047 A1	20100409	MX20100003047	20080820
RU2010116241 A	20111110	RU20100116241	20080820
US2009082803 AA	20090326	US20070861954	20070926
US2016345979 AA	20161201	US20160231258	20160808
WO09042317 A1	20090402	WO2008US73666	20080820

Probable Assignee: ST JUDE MEDICAL CARDIOLOGY DIVISION INC

Assignee(s):(std)**:** ADAMS DANIEL O ; AGA MEDICAL CORP ; PIGNATO PAUL ; ST JUDE MEDICAL CARDIOLOGY DIV INC

Assignee(s): ST JUDE MEDICAL CARDIOLOGY DIVISION INC ; BANK OF AMERICA NA ; LEHMAN COMMERCIAL PAPER INC

Inventor(s):(std)**:** ADAMS DANIEL O ; PAUL PIGNATO ; PIGNATO PAUL

Inventor(s): DANIEL O ADAMS ; ADAMS DANIEL

Agent(s): GRIFFITH HACK; RIDOUT AND MAYBEE LLP; CHARIG RAYMOND JULIAN; AGA MEDICAL CORP; ALBRECHT RALPH P 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 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 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

International class (IPC 8–9): A61B17/00 A61B17/03 A61B17/08 A61B17/12 A61F2/01 A61F2/84 A61L31/02 B21D26/00 (Advanced/Invention); A61B17/03 A61B17/08 A61F2/84 A61L31/02 (Advanced/Non–invention); A61B17/03 A61F2/82 A61L31/02 (Core/Invention)

International class (IPC 1–7): A61B17/08

CPC: A61B2017/12095 A61B17/12109 A61B2017/00575 A61B2017/00623 A61B17/12177 A61B2017/00615 A61B17/12113 A61B17/0057 A61B17/12022 A61B17/12036 A61B17/12172 A61B2017/00867 A61B2017/12054

European class: A61B17/00P A61B17/12P A61B17/12P1P A61B17/12P5B A61B17/12P5B1 A61B17/12P7W1 K61B17/00P5 K61B17/00P5R K61B17/00S12 K61B17/12P2

US class: 606/200 606/213 606/213P

Classification Explorer

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Forward Citations: WO16074673, WO15052172, WO13060856, WO12178089, US9642993, US9636116, US9629635, US9597087, US9585669, US9561103, US9554899, US9492273, US9492174, US9468442, US9463105, US9456812, US9451965, US9439757, US9427304, US9393022, US9381104, US9381041, US9364259, US9358371, US9314248, US9295571, US9295473, US9277995, US9271736, US9259337, US9247942, US9232997, US9205236, US9204983, US9198670, US9198666, US9179918, US9161758, US9155647, US9149277, US9107669, US9095344, US9095343, US9095342, US9089332, US9078658, US9060886, US9039726, US9017351, US9005155, US8984733, US8951223, US8926681, US8882697, US8752258, US8747597, US8745845, US8740962, US8696701, US8636760, US8460372, US8454632, US8425539, US8142456, US2015209139, US2014343602, US2014012303, US2013245667, US2012271337, US2011208227, US2011202085, US2011190874, US2011184453, US2011184452, US2011152993, US2011071624, US2011071623, US2011022149, US2010298755, US2010268175, US2010106235, US2010023105, US2009287294, US2009287291, US2009281557, US2009281379, US2009275974, US2008243151, US2008221600, EP2958527, EP2856946, EP2633820, EP2273942, EP2273942, DE102015002113,

Abstract:
Source: US2009082803A In some embodiments, a medical device may include one or more of the following features: (a) a metal fabric formed of braided metal strands, (b) the medical device having a collapsed configuration for delivery through a channel in a patient's body and having a generally dumbbell–shaped expanded configuration with two expanded diameter portions separated by a reduced diameter portion formed between opposed ends of the device and unsecured metal strand ends at the opposed ends, and (d) a thrombogenic agent located on the metal fabric.

0) US2008177138A – SCANNING MECHANISMS FOR IMAGING PROBE

88) Family number: 42047473 (US2008177138A) © PatBase

Title: SCANNING MECHANISMS FOR IMAGING PROBE

Priority:

CA20082675617	20080121	CA20162675617	20160913	JP20090545771	20080121
CN200880009104	20080121	EP20080706240	20080121	CN200880009253	20080121
US20070881169P	20070119	JP20090545772	20080121	JP20130047028	20080121
JP20150020811	20150205	JP20130018395	20080121	JP20150144534	20150722
JP20150020811	20080121	JP20160190535	20160929	US20080010206	20080122
US20080010207	20080122	US20080010208	20080122	US20080010205	20080122
WO2008CA00089	20080121	WO2008CA00092	20080121	WO2008CA00090	20080121
US20090385014	20090327	US20130914449	20130610	US20140283052	20140520
US20140263862	20140428	US20160192306	20160624		

Family:

Publication number	Publication date	Application number	Application date
AU2008207265 AA	20080724	AU20080207265	20080121
AU2008207265 BB	20130801	AU20080207265	20080121
AU2008207318 AA	20080724	AU20080207318	20080121
AU2008207318 BB	20131212	AU20080207318	20080121
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CA2675617 C	20161101	CA20082675617	20080121
CA2675619 AA	20090715	CA20082675619	20080121
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US8460195 BB	20130611	US20090385014	20090327	
US8712506 BB	20140429	US20080010207	20080122	
US8784321 BB	20140722	US20080010208	20080122	
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WO08086614 A1	20080724	WO2008CA00090	20080121	
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WO08086616 A1	20080724	WO2008CA00092	20080121	
WO08086616 B1	20080912	WO2008CA00092	20080121	

Probable Assignee: SUNNYBROOK HEALTH SCIENCES CENTRE

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Assignee(s): BROADCOM CORP ; UNIVERSITY HEALTH NETWORK ; SUNNYBROOK HEALTH SCIENCES CENTRE ; HEALTH NETWORK UNIV

Inventor(s):(std)**:** BRIAN COURTNEY ; COURTNEY BRIAN ; DONG YANG VICTOR XIAO ; FOSTER FRANCIS STUART ; ROBERT MUNCE NIGEL ; SINGH THIND AMANDEEP ; STUART FOSTER FRANCIS ; THIND AMANDEEP SINGH ; MUNCE NIGEL ROBERT ; YANG VICTOR XIAO DONG ; SOONG ALAN ; LI BRIAN HENG

Inventor(s): NIGEL ROBERT MUNCE ; AMANDEEP SINGH THIND ; VICTOR XIAO DONG YANG ; FRANCIS STUART FOSTER

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; HILL AND SCHUMACHER; HERNANDEZ YORCK; DENNEMEYER AND ASSOCIATES SA; RALPH A DOWELL OF DOWELL AND DOWELL PC; DOWELL AND DOWELL PC; LYNN C; STEPHEN W

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 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 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 ZA ZM ZW

International class (IPC 8–9): A61B1/00 A61B1/018 A61B1/04 A61B1/045 A61B1/05 A61B1/07 A61B10/00 A61B18/20 A61B5/00 A61B5/05 A61B6/00 A61B8/00 A61B8/08 A61B8/12 A61B8/14 G01D5/347 G01N29/24 G01R G02B26/10 (Advanced/Invention);
A61B8/00 A61B8/08 (Advanced/Non–invention);
A61B1/00 A61B1/012 A61B1/04 A61B1/045 A61B1/06 A61B10/00 A61B5/00 A61B6/00 A61B8/00 A61B8/12 A61B8/14 G01D5/26 (Core/Invention);
A61B G01D (Subclass/Invention)

CPC: A61B6/504 A61B5/0086 A61B5/0075 A61B5/0071 A61B5/7285 A61B8/4416 A61B8/5292 A61B5/0084 A61B5/742 A61B5/7207 A61B1/00172 A61B1/00183 A61B5/0066 A61B5/0095 A61B8/5238 A61B8/543 A61B5/0062 A61B5/6852 A61B8/4281 A61B8/445 A61B8/4461 A61B8/483 G10K11/002 A61B8/12 A61B5/0035

European class: A61B5/00P1 A61B5/00P1C A61B5/00T3 A61B5/68D1H A61B8/12 A61B8/44F A61B8/44N2 A61B8/44N6 A61B8/52D6 A61B8/54B K61B8/42F2 K61B8/54B

US class: 1/1 250/231.18 359/199.2 385/25 600/109 600/109P 600/137 600/173 600/407 600/425 600/427 600/459 600/459P 600/462 600/463 600/463P 600/466 600/467 600/476 600/476S 600/478 600/478S

Classification Explorer

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Abstract:
Source: US2008177138A The present invention provides scanning mechanisms for imaging probes using for imaging mammalian tissues and structures using high resolution imaging, including high frequency ultrasound and/or optical coherence tomography. The imaging probes include adjustable rotational drive mechanism for imparting rotational motion to an imaging assembly containing either optical or ultrasound transducers which emit energy into the surrounding area. The imaging assembly includes a scanning mechanism having including a movable member configured to deliver the energy beam along a path out of said elongate hollow shaft at a variable angle with respect to said longitudinal axis to give forward and side viewing capability of the imaging assembly. The movable member is mounted in such a way that the variable angle is a function of the angular velocity of the imaging assembly.

0) US2002025502A – ORTHODONTIC APPLIANCE CONTRACTION CONNECTOR

89) Family number: 28430274 (US2002025502A) © PatBase

Title: Orthodontic appliance contraction connector

Priority: AU19990036534 19990419 AU19990036534 19990419 US19990406426 19990927 US19980065344 19980423 US19980143071 19980828 EP19990918679 19990419 WO2002US32013 20021007 US20010975633 20011012 WO2001US49066 20011212 US20030439638 20030516 US20000750527 20001229 US20000598766 20000622 US20020186604 20020702 WO1999US08566 19990419 WO2004US15037 20040513

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Publication number	Publication date	Application number	Application date
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Inventor(s):(std)**:** MICHAEL O WILLIAMS ; WILLIAMS MICHAEL O

Inventor(s): WILLIAMS MICHAEL O GULFPORT

Agent(s): CALLINANS; DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; FISHER ADAMS KELLY CALLINANS; SMART AND BIGGAR; ZEITLER VOLPERT KANDLBINDER PATENT U RECHTSANWAELTE PARTNERSCHAFT MBB; ZEITLER VOLPERT KANDLBINDER; ZEITLER GISELHER; PAUL M

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

International class (IPC 8–9): A61C3/00 A61C7/00 A61C7/10 A61C7/22 A61C7/36 (Advanced/Invention);
A61C7/00 (Advanced/Non–invention);
A61C3/00 A61C7/00 (Core/Invention);
A61C (Subclass/Invention)

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CPC: A61C7/36 A61C7/10

European class: A61C7/00 A61C7/10 A61C7/36

US class: 433/17 433/18 433/18P 433/19 433/19P 433/21 433/21S 433/7 433/7S

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Abstract:
Source: US2002025502A A contracting connector between a maxillary apparatus and mandibular apparatus to treat an underbite. The connector has a telescoping outer sheath connected at its posterior end to the maxillary apparatus. A rod is slidingly engaged in the sheath. And connected at its anterior end to the mandibular apparatus. A spring connected between the rod and the posterior end of the sheath exerts adjustable contraction pressure on the rod and thus the mandible. In another embodiment, the rod has separate anterior and posterior segments The posterior segment of the rod is attached to the maxillary apparatus and the anterior segment is attached to the mandibular apparatus A spring connected between the anterior and posterior segments exerts adjustable contracting pressure on the two rod segments and thus on the maxilla and the mandible. In either embodiment the contracting pressure on the spring is adjusted by changing the length of the telescoping outer sheath. An improved channel lock for connectors also is disclosed.

0) US5944738A – PERCUTANEOUS CATHETER DIRECTED CONSTRICTING OCC...

90) Family number: 20686104 (US5944738A) © PatBase

Title: Percutaneous catheter directed constricting occlusion device

Priority: EP19980953347 19981012 EP20070014279 19981012 US19980019620 19980206 WO1998US21342 19981012

Family:

Publication number	Publication date	Application number	Application date
AT372727 E	20070915	AT19980953347T	19981012
AU199910748 A1	19990823	AU19990010748	19981012
AU737934 B2	20010906	AU19990010748	19981012
CA2319521 AA	20000803	CA19982319521	19981012
CA2319521 C	20040504	CA19982319521	19981012
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CN1283973 A	20010214	CN19988013470	19981012
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EA002106 B1	20011224	EA20000000739	19981012
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EP1052944 B1	20070912	EP19980953347	19981012
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US5944738 A	19990831	US19980019620	19980206
WO9939646 A1	19990812	WO1998US21342	19981012

Probable Assignee: ST JUDE MEDICAL CARDIOLOGY DIVISION INC

Assignee(s):(std)**:** AGA MEDICAL GROUP ; AGA MEDICAL CORP

Assignee(s): AGA MEDICAL CORP PLYMOUTH ; AFREMOV MICHAEL R ; AMPLATZ KURT ; BANK OF AMERICA NA ; LEHMAN COMMERCIAL PAPER INC ; ST JUDE MEDICAL CARDIOLOGY DIVISION INC

Inventor(s):(std)**:** AFREMOV MICHAEL ; AFREMOV MICHAEL R ; AMPLATZ KURT ; KURT AMPLATZ ; MICHAEL R AFREMOV

Agent(s): GRIFFITH HACK; RIDOUT AND MAYBEE LLP; ANDRAE WESTENDORP PATENTANWAELTE PARTNERSCHAFT; CHARIG RAYMOND JULIAN ET AL; CHARIG RAYMOND JULIAN; VALLEJO JUAN PEDRO

Designated states:

AM AT AU AZ BE BY CA CH CN CY DE DK ES FI FR GB GR IE IT JP KG KR KZ LI LU MC MD NL PT RU SE TJ TM

International class (IPC 8–9): A61B17/00 A61B17/08 A61B17/12 (Advanced/Invention); A61B17/08 A61B17/12 (Advanced/Non–invention)

International class (IPC 1–7): A61B17/00 A61B17/08 A61B17/12 A61F2/01

CPC: A61B17/0057 A61B2017/00575 A61B2017/00592 A61B2017/00597 A61B2017/00606

European class: A61B17/00P K61B17/00P5 K61B17/00P5E K61B17/00P5F K61B17/00P5H

US class: 606/213

Classification Explorer

Cited documents: WO9912478 A1, WO9802100 A1, WO9742878 A1, WO9731672 A1, WO9728744 A1, US64771296, US64771296, US5733294 A, US5725552 A, US5709707 A, US5702421 A, US5645558 A, US5634936 A, US5597378 A, US5527338 A, US5522822 A, US5466242 A, US5456693 A, US5451235 A, US5334217 A, US5246445 A, US5192301 A, US5190536 A, US5171259 A, US5108420 A, US5067957 A, US5067489 A, US4991602 A, US4917089 A, US4836204 A, US4665906 A, US4007743 A, US3874388 A, US08647712, FR1416, EP0545091 A2, EP0541063 A2, DE4222291 C1, AU489252 A1,

Forward Citations: WO15171268, WO14113632, WO13041721, WO12058244, WO11161136, WO10138277, WO10096324, WO10077599, WO09140195, WO07149337, WO07149337, WO07133254, WO07011353, WO06110147, WO05099365, WO05034723, WO05034723, WO04091411, WO04091411, WO04052213, WO03071920, WO03071920, WO0230335, WO02101118, WO02101118, WO02098298, WO0172367, WO0044308, USD732666, US9655602, US9649495, US9642993, US9642704, US9636204, US9636116, US9636094, US9631303, US9629736, US9629718, US9629635, US9622752, US9610088, US9597087, US9592120, US9585776, US9585754, US9585750, US9585749, US9585669, US9585651, US9585644, US9579194, US9561103, US9555219, US9554899, US9554783, US9545247, US9539088, US9532873, US9532872, US9532772, US9532703, US9528205, US9526609, US9517148, US9510945, US9510845, US9510832, US9510817, US9504568, US9504564, US9498329, US9492273, US9492263, US9492174, US9492148, US9486313, US9474517, US9474516, US9468442, US9468441, US9468437, US9468430, US9463105, US9463038, US9463037, US9456812, US9451965, US9451939, US9445799, US9445798, US9439757, US9439663, US9427243, US9421026, US9420940, US9415225, US9414842, US9414738, US9408730, US9408729, US9402727, US9399114, US9393115, US9393113, US9393112, US9393094, US9393034, US9393022, US9387076, US9387071, US9387001, US9381104, US9381041, US9381006, US9375333, US9375209, US9370421, US9364259, US9358371, US9358112, US9358111, US9358110, US9358106, US9351748, US9351715, US9345501, US9339382, US9333070, US9332977, US9331328, US9326873, US9326759, US9320599, US9314326, US9314259, US9314248, US9308085, US9307998, US9301834, US9295571, US9295550, US9295473, US9289298, US9289289, US9289198, US9277995, US9277991, US9265514, US9259337, US9259267, US9259225, US9259218, US9248017, US9247942, US9241695, US9237886, US9232997, US9232992, US9226826, US9220487, US9216014, US9211181, US9205236, US9204983, US9199085, US9198757, US9198670, US9198669, US9198666, US9192372, US9179918, US9161836, US9161758, US9155647, US9149374, US9149358, US9149357, US9149277, US9149263, US9138562, US9138314, US9138312, US9138208, US9131926, US9131836, US9114025, US9107669, US9095442, US9095344, US9095343, US9095342, US9089422, US9089332, US9084603, US9084589, US9078781, US9078658, US9078630, US9066799, US9060886, US9060857, US9060856, US9060777, US9056002, US9039726, US9039724, US9028527, US9028524, US9023097, US9023095, US9023074, US9017373, US9017351, US9011521, US9011482, US9005273, US9005242, US8998981, US8998979, US8998976, US8998947, US8992608, US8992556, US8986361, US8986336, US8986329, US8984733, US8979941, US8979923, US8974527, US8974516, US8974512, US8974484, US8966733, US8961593, US8961556, US8956402, US8956389, US8956319, US8951299, US8951286, US8951285, US8951280, US8945211, US8945179, US8945158, US8940014, US8932341, US8932311, US8926681, US8926654, US8926647, US8926641, US8926634, US8926603, US8920492, US8911461, US8894703, US8888812, US8882789, US8876896, US8876895, US8876881, US8876880, US8876791, US8870948, US8870916, US8870913, US8864822, US8864809, US8858620, US8858619, US8852229, US8852181, US8845723, US8840663, US8840662, US8840661, US8840655, US8834564, US8834563, US8828078, US8828051, US8828049, US8828027, US8828008, US8821529, US8814947, US8808369, US8801779, US8795329, US8795241, US8784478, US8784448, US8784437, US8777985, US8777980, US8777974, US8777967,

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Abstract:
Source: US5944738A A collapsible medical device and associated method for occluding an abnormal opening in, for example, a body organ, wherein the medical device is shaped from a shape memory metal fabric. The device may be used, for example, to non−surgically treat a patient having a Patent Foramen Ovale (PFO) and resulting paradoxical cerebral emboli. The device is preferably made from a continuous tubular metal fabric and includes two outer occluding portions and a resilient central, spring−like interconnecting member. The metal fabric may be heat treated within a mold in order to substantially set a desired shape of the device. The medical device includes a fastener for attaching to the end of a guide wire or delivery catheter. The medical device having the desired relaxed shape may be collapsed and delivered through a catheter or the like for deployment in a desired channel or opening in a patient's body.

0) US2009054875A – GUIDE–WIRE SLEEVE FOR FACILITATION OF LESION CR...

91) Family number: 35864714 (US2009054875A) © PatBase

Title: GUIDE–WIRE SLEEVE FOR FACILITATION OF LESION CROSSING

Priority: US20060775327P 20060222 US20070280379 20070222 WO2007CA00285 20070222 US20130135656 20131220 US20080280379 20081111 US20130773878P 20130307

Family:

Publication number	Publication date	Application number	Application date
EP1991141 A1	20081119	EP20070710640	20070222
EP1991141 A4	20130918	EP20070710640	20070222
JP2009527291 T2	20090730	JP20080555590T	20070222
US2009054875 AA	20090226	US20070280379	20070222
US2014107681 AA	20140417	US20130135656	20131220
US8617192 BB	20131231	US20070280379	20070222
US9345509 BB	20160524	US20130135656	20131220
WO07095751 A1	20070830	WO2007CA00285	20070222

Probable Assignee: BAYLIS MEDICAL CO INC

Assignee(s):(std)**:** BAYLIS MEDICAL CO INC ; STRAUSS BRADLEY H ; WARAM THOMAS C

Inventor(s):(std)**:** DAVIES GARETH ; LUK MARIA ; STRAUSS BRADLEY H ; WARAM THOMAS C

Agent(s): LORD MICHAEL; SUITA REIKO; CHIBA AKIO; ONO SHINJIRO; SHAMOTO ICHIO; KOBAYASHI YASUSHI; TOMITA HIROYUKI; ALSTON AND BIRD LLP; GLENN; NIR

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 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 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 ZA ZM ZW

International class (IPC 8–9): A61B17/22 A61B17/32 A61B17/3205 A61B17/3207 A61F2/84 A61L29/02 A61L29/08 A61L29/18 A61L31/00 A61M25/01 A61M25/02 A61M25/09 A61M25/10 A61M29/00 (Advanced/Invention);
A61B17/32 A61M25/00 A61M25/01 (Advanced/Non–invention);
A61B17/32 A61F2/82 A61L29/00 A61L31/00 A61M25/01 A61M25/02 A61M25/09 A61M25/10 (Core/Invention)

CPC: A61B17/320708 A61B17/32053 A61B2017/00845 A61B2017/22001 A61B2017/22038 A61B2017/320741 A61M25/0662 A61M2025/09183 A61B17/320725 A61B17/3207 A61B2017/320044 A61B2017/320056 A61M25/0021 A61M25/0045 A61M25/0051 A61M29/00 A61M2025/0047 A61M2025/0183

European class: A61B17/3207C A61M25/06H K61B17/00S4P K61B17/22A K61B17/22G K61B17/3205G K61B17/3207N K61M25/09T1

US class: 1/1 600/585 600/585S 604/528 604/528P 606/159

Classification Explorer

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Abstract:
Source: US2009054875A Flexible sleeve having a leading (distal) edge that can be advanced over a conventional angioplasty guide−wire to facilitate balloon angioplasty catheter and stent catheter crossing complex coronary lesions such as chronic total occlusions or heavily calcified, non−compliant lesions.

0) US2001031980A – CLOT CAPTURE COIL

92) Family number: 28172059 (US2001031980A) © PatBase

Title: CLOT CAPTURE COIL

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Designated states: AT AU BE CA CH DE DK ES FI FR GB GR IE IL IT JP LI LU MC NL PT SE

International class (IPC 8–9): A61B17/00 A61B17/22 A61B17/221 A61B17/24 A61B18/04 A61F2/00 A61F2/01 (Advanced/Invention);
A61B17/00 A61F2/00 (Advanced/Non–invention);
A61B17/22 A61F2/01 (Core/Invention);
A61B17/00 A61F2/00 (Core/Non–invention)

International class (IPC 1–7): A61B17/22 A61F2/00 A61F2/01 A61M29/00

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Abstract:
Source: US2001031980A A clot and foreign body removal device is described which comprises a catheter with at least one lumen. Located within the catheter is a clot capture coil that is connected to an insertion mandrel. In one embodiment, the clot capture coil is made out of a solid elastic or superelastic material which has shape memory, preferably nitinol. The elasticity or superelasticity of the coil allows it to be deformed within the catheter and to then reform its original coil configuration when the coil is moved outside of the catheter lumen. In another embodiment the coil is a biphasic coil which changes shape upon heating or passing an electric current. Once the coil configuration has been established, the coil can be used to ensnare and corkscrew a clot in a vessel. A clot is extracted from the vessel by moving the clot capture coil and catheter proximally until the clot can be removed or released into a different vessel that does not perfuse a critical organ. Foreign bodies are similarly captured by deploying the coil distal to the foreign body and moving the clot capture coil proximally until the foreign body is trapped within the coil. By removing the device from the body, the foreign material is also removed.

0) US5702412A – METHOD AND DEVICES FOR PERFORMING VASCULAR ANAS...

93) Family number: 20454893 (US5702412A) © PatBase

Title: METHOD AND DEVICES FOR PERFORMING VASCULAR ANASTOMOSIS

Priority: EP19960934040 19961003 US19950538575 19951003 WO1996US15926 19961003 US19960705190 19960829

Family:

Publication number	Publication date	Application number	Application date
AU199672557 A1	19970428	AU19960072557	19961003
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EP0956825 A2	19991117	EP19990116501	19961003
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WO9712555 A2	19970410	WO1996US15926	19961003
WO9712555 A3	19970522	WO1996US15926	19961003

Probable Assignee: CEDARS SINAI MEDICAL CENTER

Assignee(s):(std)**:** CEDARS SINAI MEDICAL CENTER

Assignee(s): CEDAR SINAI MEDICAL CENTER

Inventor(s):(std)**:** ALEXANDER POPOV ; BARATH PETER ; BARATH PETER A ; PETER BARATH ; POPOV ALEXANDER

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CN CU CZ DE DK EE ES FI FR GB GE GR HU IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SZ TJ TM TR TT UA UG UZ VN

International class (IPC 8–9): A61B17/11 A61M25/01 (Advanced/Invention); A61B17/03 A61M25/01 (Core/Invention)

International class (IPC 1–7): A61B17/11 A61B17/32

CPC: A61M25/0127 A61B17/11 A61B17/32053 A61B2017/1103 A61B2017/1107 A61B2017/1135 A61B2017/320064

European class: A61B17/11 A61M25/01C8 K61B17/11A K61B17/11B K61B17/11P

US class: 606/153 606/159 606/170 606/180

Classification Explorer

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Forward Citations: WO9962415, WO9948427, WO9938441, WO9855027, WO9855027, WO9838939, WO03030780, WO02074188, WO02074188, WO0200122, WO0162158, WO0162158, USRE45638, USRE43300, USRE42959, US9655643, US9655618, US9649480, US9649157, US9642993, US9629715, US9629687, US9622748, US9610073, US9585725, US9579129, US9545268, US9545248, US9522016, US9510831, US9492062, US9486227, US9474562, US9463012, US9456812, US9452015, US9445868, US9439728, US9439710, US9439642, US9421005, US9408603, US9402668, US9402605, US9358371, US9358112, US9358111, US9358040, US9345478, US9345461, US9314266, US9282961, US9277995, US9271779, US9271766, US9271741, US9265899, US9259218, US9254148, US9254125, US9232997, US9227078, US9226828, US9205236, US9204877, US9192395, US9173650, US9173647, US9168039, US9155558, US9155544, US9149281, US9144427, US9138230, US9138222, US9113878, US9089323, US9078654, US9078630, US9067362, US9066718, US9061115, US9060767, US9017371,

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Abstract:
Source: US5702412A A method and devices are provided for performing end−to−side anastomoses between the severed end of a first hollow organ and the side−wall of a second hollow organ utilizing transluminal approach with endoscopic assistance. In particular, the method utilizes a catheter, having a selectively operable cutter, which is introduced into the first hollow organ until the distal end of the catheter is substantially adjacent to the severed end of the first hollow organ. The severed end of the first hollow organ is positioned in proximity to the site for anastomoses on the side wall of the second hollow organ and the severed end is secured in sealing engagement with the side−wall, thereby defining a region of securement on the side wall of the second hollow organ. The severed end of the first hollow organ is preferably secured to the side wall of the second hollow organ by activating a corkscrew element in the catheter to penetrate the side−wall of the second hollow organ and hold the severed end of the first hollow organ in mating engagement with the side−wall of the second hollow organ. A plurality of clips can be applied to the seam between the first hollow organ and the second hollow organ. Alternatively, the first and second hollow organs can be secured by suturing. The cutter is then activated to remove a portion of the side−wall of the second hollow organ, thereby creating an opening within the region of securement and establishing the anastomosis.

94) Family number: 30037882 (US2001025174A) © PatBase

Title: VIEWING SURGICAL SCOPE FOR MINIMALLY INVASIVE PROCEDURES

Priority:

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CA19972207570 19970611 US19960627704 19960329 US19960664956 19960613
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US19970790193 19970130

Family:

Publication number	Publication date	Application number	Application date
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US6620153 BB	20030916	US20010854072	20010511	

Probable Assignee: CARDIOGENESIS CORP

Assignee(s):(std)**:** ECLIPSE SURGICAL TECH ; ECLIPSE SURGICAL TECHNOLOGIES INC ; ECLIPSE SURGICAL TECHNOL INC ; CARDIOGENESIS CORP

Assignee(s): CARDIOGENESIS CORP SUNNYVALE ; CRYOLIFE INC ; DANIEL STEVEN A ; DOWLING ROBERT ; HARMAN STUART D ; GENERAL ELECTRIC CAPITAL AGENT CORP AS ; ECLIPSE SURGICAL TECH INC ; GENERAL ELECTRIC CAPITAL AGENT AS CORP ; HEALTHCARE FINANCIAL SOLUTIONS LLC SUCCESSOR AGENT AS ; HEALTHCARE FINANCIAL SOLUTIONS LLC AGENT AS ; MUELLER RICHARD L ; REYNOLDS TIMOTHY C ; MURPHY CHUTORIAN DOUGLAS ; LATHROP ROBERT L JR ; RICHARDSON BRUCE J ; PADILLA HENRY N

Inventor(s):(std)**:** DANIEL STEVE A ; DANIEL STEVEN A ; DOWLING ROBERT ; DOWLING ROBERT D ; HARMAN STUART D ; LATHROP ROBERT L JR ; MCINTYRE JOHN ; MUELLER RICHARD L ; MURPHY CHUTORIAN DOUGLAS ; PADILLA HENRY N ; REYNOLDS TIMOTHY C ; RICHARDSON BRUCE J ; TIMOTHY C REYNOLDS ; STUART D HARMAN ; STEVEN A DANIEL ; ROBERT L LATHROP JR ; ROBERT DOWLING ; RICHARD L MUELLER ; PHIPPS RICHARD D ; LATHROP ROBERT L ; LATHROP JR ROBERT L ; JOHN MCINTYRE ; HENRY N PADILLA ; DOUGLAS MURPHY CHUTORIAN ; BRUCE J RICHARDSON

Agent(s): GRIFFITH HACK; RIDOUT AND MAYBEE LLP

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

International class(IPC 8–9)**:** A61B1/018 A61B1/267 A61B1/313 A61B17/00 A61B17/02 A61B17/22 A61B17/30 A61B17/32 A61B17/34 A61B18/20 A61B18/22 A61B18/24 A61B19/00 A61F9/008 A61M25/00 A61N5/06 (Advanced/Invention); A61B1/267 A61B1/313 A61B17/00 A61B17/02 A61B17/22 A61B17/30 A61B18/00 A61B18/20 A61B18/22 A61B19/00 A61F9/008 A61N5/06 (Advanced/Non–invention); A61B1/012 A61B17/00 A61B17/34 A61B18/20 A61N5/06 (Core/Invention); A61B1/267 A61B1/313 A61B17/00 A61B17/02 A61B17/22 A61B17/30 A61B19/00 A61F9/007 (Core/Non–invention)

International class(IPC 1–7)**:** A61B1/00 A61B1/04 A61B17/00 A61B17/22 A61B17/32 A61B17/36 A61B17/39 A61B18/00 A61B18/18 A61B18/22 A61B18/24 A61G18/20 A61M25/00 A61N5/06

CPC: A61B2017/0243 A61B17/00 A61B18/22 A61B2017/00172 A61B2017/22074 A61B2018/208 A61B17/3403 A61B90/37 A61B90/39 A61B2017/22075 A61B2017/22077 A61B1/00179 A61B1/00183 A61B2018/00166 A61B2018/00982 A61B2018/2238 A61B1/00154 A61B1/00098 A61B1/018 A61B1/267 A61B1/3132 A61B18/24 A61B2017/00247 A61B2017/306 A61B2018/00291 A61B2018/00392

European class: A61B1/00E4H8 A61B1/00P3 A61B1/00S4D A61B1/00S4H A61B1/018 A61B1/06 A61B17/34D A61B18/22 A61B18/24 K61B1/267 K61B1/313B K61B17/00C4P2 K61B17/00E1C2 K61B17/02H2 K61B17/22K2 K61B17/22K2M K61B17/22K2P K61B17/30S K61B18/00B16C K61B18/00B8 K61B18/00F6A8 K61B18/00R K61B18/20N K61B18/22C K61B19/52H K61B19/54

US class: 600/103 600/104 600/114 600/129 600/146 606/10 606/11 606/13 606/15 606/15P 606/15S 606/16 606/167 606/17 606/185 606/2 606/28 606/41 606/46 606/46S 606/7 606/7P 607/89

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Abstract:
Source: US2001025174A A viewing and treatment apparatus for performing minimally invasive surgery through an opening in a patient's chest, the apparatus includes a visualization scope with an elongated portion and a distal end, and a working device such as a tissue ablation energy delivery device. The working device is encompassed within a working channel that communicates with the distal end of the scope. In one embodiment, a bronchoscope is used whose catheter shafting includes an introducer sleeve at the distal section of the scope for providing stability during introduction to a patient's chest while stabilizing the treatment and visualization distal ends of the scope at a treatment site. This embodiment can include a needle piercing assembly that cooperatively works with the work device such as for drug delivery. In a second embodiment a rigid endoscope with a viewing channel has an introducer member that is slidably disposed and detachable from the viewing channel and has a transparent convex distal tip which provides non−articulation at the distal end. This introducer member can also be used in conjunction with the first embodiment where the catheter shaft requires non−articulation. Both types of visualization scopes include a working channel in which the working device can translationally egress from the scope's distal end. Additionally, the rigid introducer member can be modified to include a movable transparent rotatable member design for varying the direction which the working devices egresses the apparatus' distal end. The preferred surgical procedure is transmyocardial revascularization and the preferred working device is an optical fiber element that is translatable from the distal end of the apparatus during the procedure. The working device can optionally include a flexible piercing needle with an internal lumen which allows translation of a working device such as an optical fiber or act as a conduit for drug delivery.

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Family:

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WO04012589 A3	20040715	WO2003US24657	20030805
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WO04012805 A3	20041229	WO2003US24656	20030805

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Agent(s): SPRUSON AND FERGUSON; OSLER HOSKIN AND HARCOURT LLP; BRYAN CAVE LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 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

International class (IPC 8–9): A61B1/12 A61B18/18 A61B18/24 A61B5/00 A61B6/00 A61B8/12 A61M25/00 A61M25/01 A61M25/10 A61N5/06 (Advanced/Invention); A61B17/00 A61B17/22 (Advanced/Non–invention); A61B1/12 A61B18/20 A61B5/00 A61B6/00 A61M25/00 A61N5/06 (Core/Invention); A61B17/00 A61B17/22 (Core/Non–invention)

International class (IPC 1–7): A61B1/12 A61B18/24 A61B5/00 A61B6/00 A61B8/12 A61M25/00 A61M25/01 A61M25/10 A61N5/06

CPC: A61B5/6852 A61B5/0066 A61B5/0071 A61B5/0075 A61B5/0084 A61B5/0086 A61B18/245 A61B2017/00057 A61B2017/22067 A61N5/0601 A61N5/062

European class: A61B18/24B A61B5/00P12B A61B5/00P12B2 A61B5/00P1C A61B5/00P5 A61B5/68D1H A61N5/06B A61N5/06C8 K61B17/00C1L K61B17/22H7B K61B5/00P7

US class: 600/473 600/473S 600/476 600/476S 600/478 600/478P 606/15 606/7 607/88 607/88P 607/89 607/89S 607/93 607/93S

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Forward Citations: WO15192041, WO15072152, WO09130049, WO07143288, WO07143288, WO07058616, WO07041542, WO07001701, WO06049787, WO06049787, WO06037001, WO06031934, USD770616, USD765243, US9668765, US9622706, US9616197, US9612105, US9603618, US9596993, US9532772, US9492644, US9486143, US9478940, US9456872, US9413896, US9383263, US9367965, US9360630, US9339442, US9339173, US9324141, US9307926, US9301687, US9292918, US9291663, US9289226, US9286673, US9283040, US9248262, US9215970, US9168098, US9149334, US9101742, US9028520, US9011383, US8961551, US8954134, US8933416, US8887733, US8663210, US8608649, US8366606, US8260390, US8246574, US8206370, US8114068, US8097028, US8078261, US7993303, US7992573, US7952719, US7938828, US7927305, US7922654, US7912539, US7901441, US7848791, US7757695, US7730894, US7610081, US7539531, US7534204, US7515957, US7458967, US7449026, US7396354, US7313432, US7297154, US7273056, US7261730, US7153299, US7135034, US2015202002, US2015119724, US2014257371, US2012184924, US2012161032, US2012053614, US2010286531, US2010185187, US2010174196, US2010113906, US2010094109, US2010081873, US2009240154, US2009227993, US2009216300, US2009187108, US2009175576, US2009171265, US2008304074, US2008269846, US2008249399, US2008228032, US2008208180, US2008194973, US2008077225, US2008065014, US2008039715, US2008027517, US2008027408, US2007293821, US2007270779, US2007270717, US2007250149, US2007123957, US2007088195, US2007078500, US2007073364, US2007060995, US2007038204, US2007038123, US2007015979, US2006241503, US2006095065, US2006036164, US2005131510, US2005131500, US2005119523, US2005106710, US2005104059, US2005096642, US2005075704, US2004193149, US2004093044, US2004073102, KR101019464, JP2013512738, JP2012065902, JP2011087855, JP2009509690, JP2008530235, JP2008514303, EP2506792, EP2449994, EP2361549, EP2156804, EP2111896, EP1757218, DE102010047317, DE102006003181, DE102005032961, DE102005007574, CN105848713, CN104720752,

Abstract:
Source: US2004092830A The present invention provides a catheter for detecting and treating diseased tissue in a blood vessel or other hollow body organ. The catheter comprises an elongated tubular catheter shaft having a distal end comprising a light transmission zone. A first fiber lumen in the catheter shaft contains a diagnostic optical fiber having a distal end terminating within the light transmission zone for emitting and receiving light through the light transmission zone. A diagnostic subassembly at the proximal end and in communication with the diagnostic optical fiber processes diagnostic light for use in connection with a diagnostic method for detecting diseased tissue. A second fiber lumen can be provided in the catheter shaft for containing a treatment optical fiber for delivering treatment light from a light source at the proximal end of the catheter shaft to the light transmission

zone. The treatment optical fiber has a distal end terminating within the light transmission zone for emitting light for treatment of the diseased tissue. An occlusion balloon is positioned on the distal end of the catheter shaft adjacent to the light transmission zone and in fluid communication with an inflation lumen. One or more infusion ports formed on or near the light transmission zone and in fluid communication with an infusion lumen deliver infusion fluid to the hollow body organ.

96) Family number: 29612961 (US2003055441A) © PatBase

Title: MECHANICAL ANASTOMOSIS SYSTEM FOR HOLLOW STRUCTURES

Priority:

CA19982347767 19981022
JP20000517658 19981022
US20000529900 20000421
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US20030405676 20030401
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Family:

Publication number	Publication date	Application number	Application date
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US7022127 BB	20060404	US20030405677	20030401
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US8182498 BB	20120522	US20020162261	20020604
WO9921491 A1	19990506	WO1998NL00605	19981022

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Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW

International class (IPC 8–9): A61B17/04 A61B17/064 A61B17/08 A61B17/11 A61B17/115 (Advanced/Invention); A61B17/08 A61B17/11 (Advanced/Non–invention); A61B17/03 A61B17/064 (Core/Invention)

International class (IPC 1–7): A61B17/064 A61B17/08 A61B17/11 A61B17/115 A61B17/122 A61B17/128

CPC: Y10S227/901 Y10S227/902 A61B17/11 A61B17/0644 A61B17/08 A61B17/115 A61B2017/0641 A61B2017/1107 A61B2017/1135 A61B2017/1139

European class: A61B17/064D A61B17/11 A61B17/115 K61B17/064A K61B17/08 K61B17/115 K61B17/11B K61B17/11P K61B17/11Q

US class: 227/901 227/902 606/139 606/153 606/153P 606/194 623/1.1 623/1.15 623/1.36

Classification Explorer

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Abstract:
Source: US2003055441A A system for making anastomoses between hollow structures by mechanical means is provided with a device in the shape of an annular or tubular element comprising circumferentially provided means, such as pin−shaped elements, for joining the abutting walls of the hollow structures together. An applicator is intended for moving said annular or tubular element in position and activating the joining means thereof, so as to make the anastomosis. Possibly, intraluminal joining means can be inserted without using an annular or tubular element.

97) Family number: 42648813 (US2008305539A) © PatBase

Title: MEMBRANE SUPPORTED BIOREACTOR FOR CONVERSION OF SYNGAS COMPONENTS TO LIQUID PRODUCTS

Priority:

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Family:

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Probable Assignee: SYNATA BIO INC

Assignee(s):(std)**:** DATTA RATHIN ; HICKEY ROBERT ; COSKATA INC ; RAHUL BASU ; COSKATA ENERGY INC ; COSKATA ENERGY ; TSAI SHIH PERNG ; YOON SEONG HOON ; TOBEY RICHARD E ; BASU RAHUL

Assignee(s): CALIPER LIFE SCIENCES INC ; VINOD KHOSLA AND NEERU KHOSLA TRUSTEES OF KFT TRUST DATED NOVEMBER 17 1986 ; KHOSLA VENTURES III LP ; COSKATA ASSIGNMENT FOR BENEFIT OF CREDITORS LLC ; SYNATA BIO INC ; COSKATA INC WARRENVILLE ; ADVANCED TECHNOLOGY VENTURES VII B LP ; ADVANCED TECHNOLOGY VENTURES VII C LP ; ADVANCED TECHNOLOGY VENTURES VII LP ; ATV ENTREPRENEURS VII LP

Inventor(s):(std)**:** HICKEY ROBERT ; RAHUL BASU ; RATHIN DATTA ; SEONG HOON YOON ; SHIH PERNG TSAI ; TOBEY RICHARD E ; TSAI SHIH PERNG ; BASU RAHUL ; DATTA RATHIN ; YOON SEONG HOON

Inventor(s): YOON SEONG HOON NAPERVILLE ; DATTA RATHIN CHICAGO ; BASU RAHUL NAPERVILLE ; TSAI SHIH PERNG NAPERVILLE

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; HAYES ADRIAN CHETWYND; BOULT WADE TENNANT; CARDINAL LAW GROUP; HLETKO PAUL M

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 TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B01D53/22 B01D61/00 B01D69/08 C10G2/00 C10G5/00 C10L1/30 C12M1/00 C12M1/04 C12M1/12 C12M1/14 C12M1/34 C12M1/40 C12M3/00 C12N1/20 C12N5/00 C12N5/02 C12P1/00 C12P1/04 C12P7/00 C12P7/04 C12P7/06 C12P7/14 C12P7/16 C12P7/18 C12P7/30 C12P7/40 C12P7/52 C12P7/54 C12R1/145 (Advanced/Invention); B01D61/00 C10G2/00 C10G5/00 C12M1/00 C12M1/04 C12P7/04 C12P7/06 C12P7/52 C12R1/145 (Advanced/Non–invention); C10G5/00 C10L1/10 C12M1/00 C12M1/04 C12M1/12 C12M3/00 C12N1/20 C12P1/00 C12P1/04 C12P7/00 C12P7/02 C12P7/40 (Core/Invention)

International class (IPC 1–7): C10G5/00 C10L1/30 C12P7/04

CPC: C12M23/58 C12M41/28 C12P7/065 Y02E50/17 C12P7/04 C12M21/12 C12M23/24 C12M23/44 C12M25/10 C12M29/16

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US class: 435/132 435/132S 435/136 435/140 435/140P 435/141 435/141S 435/154 435/157 435/157S 435/160 435/160S 435/161 435/161P 435/161S 435/162 435/162S 435/165 435/170 435/170P 435/170S 435/252.7 435/252.700P 435/279.2 435/284.1 435/286.6 435/287.8 435/289.1 435/289.100P 435/289.100S 435/293.1 435/294.1 435/294.100S 435/297.1 435/297.100P 435/297.100S 435/297.2 435/297.3 435/297.4 435/297.400S 435/297.5 435/299.1 435/304.1 435/305.1 435/400 435/401 435/41 435/41S

Classification Explorer

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US7163632 BA, US7118672 BB, US7083956 BB, US6919488 BB, US6908547 BB, US6899743 BB, US6844187 BA, US6755975 BB, US6723886 BB, US6558549 BB, US6387262 BA, US6340581 BA, US6228607 BA, US6136577 A, US6043392 A, US5958243 A, US5954858 A, US5938922 A, US5851267 A, US5821111 A, US5753474 A, US5702503 A, US5595893 A, US5173429 A, US5116506 A, US5106506 A, US4746435 A, US4442206 A, US4440853 A, US4377638 A, US4336335 A, US4266026 A, US4181604 A, US3993816 A, US2010105116 AA, US2010034518 AA, US2009286296 AA, US2009215163 AA, US2009215153 AA, US2009215142 AA, US2009215139 AA, US2009104676 AA, US2009035848 AA, US2009029434 AA, US2009017514 AA, US2008305540 AA, US2008305539 AA, US2008264860 AA, US2008057554 AA, US2007275447 AA, US2007056893 AA, US2006163157 AA, US2006096918 AA, US2006096912 AA, US2006037896 AA, US2006021936 AA, US2006014274 AA, US2005260739 AA, US2005082227 AA, US2005054087 AA, US2005009159 AA, US20050009159, US2004229343 AA, US2004211723 AA, US2004065607 AA, US2004045890 AA, US2003211585 AA, US2003187367 AA, US1258180 A, US1211734 A, JP3164169 A2, JP2007082437 A2, JP2004504058 T2, JP2002543793 T2, JP1312993 A2, JP1265881 A2, CN1747903, CN1444658, CN1228124,

Forward Citations: WO16065217, WO16044348, WO15181180, WO15138627, WO15089675, WO15088568, WO15030624, WO15002552, WO14204326, WO14151158, WO14149123, WO14140339, WO14140336, WO14113209, WO14093743, WO14011867, WO13188858, WO13188858, WO13188852, WO13188161, WO13130947, WO13119866, WO13096665, WO13086458, WO13081779, WO13043513, WO13043511, WO12156683, WO12083244, WO12083244, WO12080421, WO11116124, WO11116124, WO11097566, WO11088364, WO11087821, WO11087821, WO11085251, WO11085251, WO11073977, WO11068576, WO11005313, WO10148392, US9624512, US9551013, US9534261, US9512057, US9504739, US9493709, US9469860, US9433903, US9428778, US9388419, US9376697, US9364805, US9340802, US9255281, US9212375, US9181565, US9175408, US9133042, US9127296, US9034179, US9022059, US9011578, US8980597, US8969067, US8955690, US8940520, US8940171, US8936927, US8906655, US8906143, US8900836, US8895274, US8889400, US8883464, US8828692, US8809027, US8802405, US8771999, US8759047, US8691538, US8673603, US8658415, US8658408, US8652816, US8637286, US8609380, US8597934, US8551746, US8541214, US8518691, US8507228, US8445244, US8377665, US8376736, US8354269, US8354257, US8349587, US8308939, US8303849, US8293509, US8263372, US8222026, US8222013, US8212093, US8211692, US8211679, US8198055, US8183035, US8178330, US8143037, US8119844, US8119378, US8101387, US8062873, US8058058, US8017384, US7972824, US7927513, US2015225748, US2014349358, US2014329285, US2014273121, US2014227769, US2014206066, US2014187826, US2014065701, US2014037688, US2014017747, US2013295659, US2013055897, US2013040350, US2012288928, US2012252082, US2012247327, US2012091602, US2011256597, US2011236919, US2011229947, US2011226997, US2011195462, US2011183390, US2011171706, US2011125118, US2011104770, US2011097701, US2011095234, US2011000836, US2010298450, US2010294642, US2010252443, US2010210017, US2010200504, US2010105116, US2010047886, US2009286296, US2009215153, US2009215142, US2009215139, US2009035848, US2009029434, US2009017514, US2008305540, KR101571322, KR101474230, KR101134688, JP2015527056, JP2013521807, GB2524024, EP2865735, EP2861710, EP2861539, EA024718, CN104619652, CN104302778, CN104136405, CN103958690, CN102939372, CN102939372, CN102695678, CN102502904, AU2012312678, AU2011227281,

Abstract:
Source: US2008305539A Ethanol and other liquid products are produced by contacting syngas components such as CO or a mixture of CO2 and H2 with a surface of a membrane and transferring these components in contact with a biofilm on the opposite side of the membrane. These steps provide a stable system for producing liquid products such as ethanol, butanol and other chemicals. The gas fed on the membrane's gas contact side transports through the membrane to form a biofilm of anaerobic microorganisms that converted the syngas to desired liquid products. The system can sustain production with a variety of microorganisms and membrane configurations.

98) Family number: 16057341 (US6338913B) © PatBase

Title: DOUBLE–MEMBRANE MICROCELL ELECTROCHEMICAL DEVICES AND ASSEMBLIES, AND METHOD OF MAKING AND USING THE SAME

Priority: AU20010282953 20010723 AU20010282953 20010723 AU20040202981 20040630 US20000624070 20000724 US20000621228 20000724 US20000621713 20000724 WO2001US23220 20010723 US20000624303 20000724 US20000625218 20000724 US20000625219 20000724

Family:

Publication number	Publication date	Application number	Application date
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AU2001282953 BB	20050707	AU20010282953	20010723
AU200182953 A5	20020205	AU20010082953	20010723
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KR20030038678 A	20030516	KR20037001123	20030124
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NZ530851 A	20050624	NZ20010530851	20010723
NZ539683 A	20061130	NZ20010539683	20010723
US6338913 BA	20020115	US20000624070	20000724
US6399232 BA	20020604	US20000621228	20000724
US6403248 BA	20020611	US20000624303	20000724
US6403517 BA	20020611	US20000625218	20000724
US6444339 BA	20020903	US20000625219	20000724
US6495281 BA	20021217	US20000621713	20000724
WO0209212 A1	20020131	WO2001US23220	20010723

Probable Assignee: MICROCELL CORP

Assignee(s):(std)**:** MICROCELL CORP

Assignee(s): ESHRAGHI RAY R

Inventor(s):(std)**:** ESHRAGHI RAY ; ESHRAGHI RAY R ; ESHRAGUI R ; ESHRAGUI RAY ; R ESHRAGUI ; RAY ESHRAGUI

Inventor(s): RAY ESHRAGHI

Agent(s): CALLINANS; FISHER ADAMS KELLY CALLINANS; KIRBY EADES GALE BAKER

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

International class (IPC 8–9): B01D69/08 C01B13/02 C01B3/50 H01M10/04 H01M2/18 H01M2/20 H01M2/32 H01M4/04 H01M4/86 H01M4/88 H01M6/10 H01M6/44 H01M8/02 H01M8/04 H01M8/06 H01M8/10 H01M8/24 (Advanced/Invention); H01M2/16 H01M2/18 H01M2/20 H01M4/02 H01M8/02 H01M8/04 (Advanced/Non–invention); B01D69/00 C01B13/02 C01B3/00 H01M10/04 H01M2/14 H01M2/20 H01M4/04 H01M4/86

H01M4/88 H01M6/04 H01M6/42 H01M8/02 H01M8/04 H01M8/06 H01M8/10 H01M8/24 (Core/Invention);
H01M2/16 H01M2/20 H01M4/02 H01M8/02 H01M8/04 (Core/Non–invention)

International class (IPC 1–7): H01M2/18 H01M2/20 H01M2/32 H01M4/04 H01M4/86 H01M4/88 H01M6/10 H01M6/44 H01M8/02 H01M8/04 H01M8/06 H01M8/24

CPC: H01M4/0452 H01M4/8626 H01M8/0252 H01M8/0286 H01M8/04014 H01M8/1076 H01M8/2485 H01M2008/1095 H01M4/0404 H01M4/0411 H01M4/0416 H01M8/04171 H01M8/08 H01M10/12 H01M4/661 H01M4/75 H01M8/1097 H01M2/204 H01M8/24 H01M8/2465 H01M10/0436 H01M2/1022 H01M10/0404 B01D69/08 C01B3/501 C01B13/0251 C01B2203/0283 C01B2203/041 C01B2203/047 C01B2203/0475 C01B2203/0495 C01B2203/066 C01B2210/0053 H01M2/1673 H01M2/18 H01M2/20 H01M8/0206 H01M8/0228 H01M8/04029 H01M8/04291 H01M8/0637 H01M8/0687 H01M8/2475 H01M10/04 H01M8/243 H01M2/145 H01M2/185 H01M4/70 H01M4/8668 H01M4/8846 H01M4/8864 H01M4/8892 H01M4/94 H01M6/44 H01M8/004 H01M8/0247 H01M8/04007 H01M8/04074 H01M8/0668 H01M8/241 H01M8/249 H01M10/0472 H01M2004/022 Y10T29/49108 H01M4/04 H01M10/613 H01M10/625 H01M10/643 H01M10/6557 H01M10/6567 Y02P70/56 H01M8/1007 Y02E60/566

European class: B01D69/08 C01B13/02D4B C01B3/50B H01M10/04 H01M10/50C2 H01M10/50D4 H01M10/50H2 H01M10/50K10K2 H01M10/50K12D H01M2/14M H01M2/18 H01M2/18M H01M4/70 H01M4/86M2 H01M4/88G14 H01M4/88G6 H01M4/88K4 H01M4/94 H01M6/44 H01M8/00B2 H01M8/02C6 H01M8/04B H01M8/06B2D H01M8/06C2 H01M8/06C8 H01M8/10B H01M8/24B2 H01M8/24B2H2 M01B203/02H M01B203/04B2 M01B203/04P12 M01B203/04P2 M01B203/04P4 M01B203/06H M01B210/00W12 T01M10/04N T01M2/16E T01M2/20 T01M4/02F T01M8/02C2A T01M8/02C2K2 T01M8/04B14B T01M8/04B4 T01M8/04F T01M8/24D2A T01M8/24P Y02E60/12 Y02E60/50 Y02E60/52B

US class: 29/623.1 429/133 429/140 429/141 429/218.2 429/26 429/27 429/34 429/40 429/41 429/412 429/437 429/450 429/452 429/453 429/458 429/467 429/469 429/470 429/498 429/505 429/516 429/521 429/535 429/94 502/101

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Abstract:
Source: US6338913B A fibrous microcell structure comprising at least one electrically conductive fibrous element circumscribed by a porous membrane separator having coated, impregnated or extruded at an inner surface thereof a first electrocatalyst layer having an electrically conductive hydrogen– or oxygen–permselective membrane thereon, with an electrolyte disposed in porosity of the porous membrane separator. The structure includes a central lumen, at least one electrically conductive fibrous element and interstitial volume accommodating flow of feed through the lumen, at least one electrically conductive fibrous element in contact with the second electrocatalyst layer, and the porous membrane separator at its outer surface being in contact with an electrocatalyst and at least one electrically conductive fiber.

99) Family number: 30996446 (US2002099332A) © PatBase

Title: BIODEGRADABLE POLYMERIC ENDOLUMINAL SEALING PROCESS, APPARATUS AND POLYMERIC PRODUCTS FOR USE THEREIN

Priority:

CA19890609264	19890824	CA19890616970	19890824	EP19890909957	19890823
EP19940930606	19941006	JP19950511004	19941006	CA19890616971	19890824
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WO1989US03593	19890823				

Family:

Publication number	Publication date	Application number	Application date
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AT424223 E	20090315	AT19940930606T	19941006
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ES2015496 AF	19900816	ES19890003342	19891004
FR2637331 A1	19900406	FR19890012172	19890918
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US5213580 A	19930525	US19920857700	19920325	
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WO9509659 A1	19950413	WO1994US11304	19941006	

Probable Assignee: ENDOLUMINAL THERAPEUTICS INC

Assignee(s):(std)**:** ENDOLUMINAL THERAPEUTICS INC ; FAIRCHILD IND ; REXNORD HOLDINGS INC ; FOCAL INC ; MASSIA STEPHEN P ; MARVIN SLEPIAN ; STEPHEN P MASSIA ; REXNORD INC ; SLEPIAN MARVIN J ; SCHINDLER ANTON ; VSI CORP ; SLEPIAN MARVIN

Assignee(s): VSI A CORP OF DE CORP ; WILMINGTON TRUST CO A DE BANKING CORP ; CITICORP USA INC ; SLEPIAN MARVIN J CLEVELAND HEIGHTS OHIO US ; SURIPIAN MAABIN JEI ; VSI CORP CHANTILLY VA US ; WILMINGTON TRUST CO ; REXNORD HOLDINGS INC A DE CORP ; MARVIN J SLEPIAN ; REXNORD HOLDINGS INC BROOKFIELD WIS US ; RETSUKUSUNORUDO INC ; GENZYME CORP ; HUCK PATENTS INC ; FAIRCHILD IND INC ; ENDORUMINARU SERAPYUUTEITSUKUSU INC ; FAIRCHILD HOLDING CORP

Inventor(s):(std)**:** ENDOLUMINAL THERAPEUTICS INC ; SLEPIAN MARVIN ; STEPHEN P MASSIA ; ROBIN W ELCOCK ; MASSIA STEPHEN P ; MARVIN SLEPIAN ; BELEN A GUEVARA ; SLEPIAN MARVIN J ; SCHINDLER ANTON ; ROBIN DABURIYUU ERUKOTSUKU ; MASSIA STEPHEN ; BEREN EI GUEBARA ; GUEVARA BELEN A ; ELCOCK ROBIN W

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International class (IPC 8–9): A61F2/00 A61F2/02 A61F2/04 A61F2/06 A61F2/82 A61F2/84 A61F2/88 A61F2/958 A61K38/04 A61K38/17 A61K47/30 A61L24/00 A61L24/04 A61L24/06 A61L26/00 A61L27/00 A61L27/16 A61L27/18 A61L27/34 A61L27/52 A61L27/54 A61L27/58 A61L29/00 A61L29/08 A61L31/00 A61L31/06 A61L31/10 A61L31/14 A61L31/16 A61M25/00 A61M25/10 A61M29/00 A61M29/02 A61M31/00 A61M35/00 A61M37/00 A61P9/14 B82B1/00 F16B37/04 F16B37/12 F16B39/06 (Advanced/Invention);
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A61F2/00 A61F2/02 (Core/Non–invention)

International class (IPC 1–7): A61B17/00 A61E2/06 A61F11/00 A61F2/02 A61F2/04 A61F2/06 A61F2/36 A61F2/54 A61K9/22 A61L25/00 A61L27/00 A61L29/00 A61L31/00 A61M25/00 A61M25/10 A61M29/00 A61M31/00 F16B21/16 F16B37/04 F16B37/12 F16B39/06

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European class: A61F2/06B A61F2/06S A61F2/06S2 A61F2/06S2B A61F2/06S6C A61F2/82 A61F2/88 A61F2/95 A61F2/958 A61L24/00H2 A61L24/00H7 A61L24/00H9 A61L24/04R A61L24/06 A61L27/16 A61L27/18 A61L27/34 A61L27/52 A61L27/54 A61L27/58 A61L29/08B A61L31/10 A61L31/14F A61L31/16 A61M25/00S A61M25/10D A61M25/10P A61M29/02 A61M35/00 A61M37/00 F16B39/06 K61F2/06S6C K61F2/30A1W1 K61F2/30A3W18C K61F2/30A5D K61F2/88 K61F2/945 K61F210/00A K61F210/00P K61F250/00W5 K61L300/256 K61L300/258 K61L300/40 K61L300/410 K61L300/412 K61L300/414 K61L300/416 K61L300/420 K61L300/602 K61L300/604 K61L300/606 K61L300/620 K61L300/640 K61M25/00C K61M25/10A K61M25/10D K61M25/10Z23 K61M25/10Z4 R16B37/12B

US class: 128/898 29/469.5 411/110 411/292 411/322 411/939 411/944 424/423 600/36 604/101 604/101.03 604/101.05 604/102 604/103.02 604/103.020S 604/113 604/522 604/890.1 604/891.1 604/919 604/96.01 604/96.010P 606/108 606/159 606/194 606/214 606/214P 623/1 623/1.1 623/1.11 623/1.21 623/1.210S 623/1.38 623/1.41 623/1.42 623/1.46 623/11 623/12 623/23.64 623/23.72 623/66 623/903 623/916 623/920 623/921 977/773 977/788 977/795

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US2004215172, US2004215140, US2004213756, US2004211429, US2004208845, US2004206358, US2004204677, US2004199155, US2004193255, US2004191404, US2004191293, US2004186587, US2004185086, US2004181271, US2004181206, US2004180044, US2004177700, US2004175823, US2004163651, US2004162609, US2004162516, US2004161451, US2004161446, US2004159271, US2004158316, US2004153120, US2004153048, US2004151702, US2004148016, US2004138614, US2004133225, US2004133154, US2004131554, US2004127976, US2004122506, US2004115164, US2004111150, US2004107006, US2004104512, US2004101518, US2004098120, US2004098119, US2004098110, US2004098106, US2004098097, US2004098090, US2004098015, US2004097778, US2004097777, US2004096969, US2004096504, US2004092787, US2004086550, US2004086542, US2004081676, US2004079377, US2004077780, US2004073298, US2004073294, US2004072961, US2004072922, US2004072756, US2004072726, US2004071523, US2004068266, US2004064090, US2004064089, US2004063613, US2004059283, US2004057942, US2004054104, US2004052859, US2004052858, US2004052850, US2004049265, US2004049187, US2004047980, US2004047978, US2004047909, US2004044358, US2004039331, US2004033598, US2004033264, US2004029952, US2004024419, US2004022826, US2004018228, US2004014936, US2004008999, US2004006296, US2004002692, US2003232089, US2003229332, US2003226804, US2003220245, US2003212373, US2003211165, US2003208279, US2003208257, US2003195613, US2003191496, US2003191476, US2003181856, US2003176663, US2003166197, US2003163192, US2003158302, US2003157142, US2003152609, US2003149489, US2003135264, US2003135261, US2003133954, US2003130672, US2003120256, US2003107145, US2003105518, US2003100942, US2003097173, US2003097170, US2003093111, US2003083738, US2003077253, US2003074049, US2003072868, US2003069570, US2003068355, US2003068296, US2003065380, US2003065377, US2003059906, US2003055398, US2003045927, US2003045681, US2003044468, US2003032892, US2003032734, US2003031697, US2003023644, US2003021848, US2003009214, US2003004568, US2003003469, US2002193813, US2002193812, US2002183581, US2002183244, US2002182659, US2002173586, US2002169413, US2002151050, US2002120234, US2002115958, US2002111673, US2002107563, US2002082680, US2002065493, US2002059001, US2002058640, US2002026235, US2002010126, US2002004680, US2001029349, US2001007083, TWI397426, RU2556570, KR100906547, JP4856339, JP3155869, JP2014193400, JP2014193399, JP2012526635, JP2011516204, JP2010533052, JP2009535338, JP2009034515, JP2008529742, JP2008515598, JP2007525444, JP2004223268, GB2381457, GB2303555, FR2851922, FR2750747, FR2701401, ES2094077, EP3093039, EP2927241, EP2789342, EP2586386, EP2586385, EP2497780, EP2380499, EP2374454, EP2344230, EP2344230, EP2336319, EP2319526, EP2308861, EP2301533, EP2292225, EP2098230, EP2063950, EP2022410, EP2000136, EP1961435, EP1914230, EP1847279, EP1847279, EP1804767, EP1803476, EP1779816, EP1738759, EP1686124, EP1600181, EP1587453, EP1538990, EP1489983, EP1300165, EP1295571, EP1292249, EP1281357, EP1265654, EP1264613, EP1261337, EP1230944, EP1214057, EP1181903, EP1175875, EP1105180, EP1019141, EP1011457, EP0972535, EP0963182, EP0953364, EP0953320, EP0935479, EP0901352, EP0873732, EP0850604, EP0836448, EP0819446, EP0804128, EP0767685, EP0724463, EP0723462, EP0722702, EP0712615, EP0701802, EP0696185, EP0615769, EP0604022, EP0543653, EP0529173, EP0528993, EP0521573, EP0479557, EP0428479, DE19911942, DE19911942, DE19739086, DE19732793, DE19731834, DE102013112014, DE102013112011, DE102012223416, DE102010046218, CZ302458, CN104093445, CN104093445, CN103596506, CN103068411, CN102271747, AU772166, AU741078, AU740657, AU739331, AU736584, AU686634, AU682896, AU2012253748, AU2008203078, AU2007346705, AU2004224439, AT411328,

Abstract:
Source: US2002099332A A novel process for paving or sealing the interior surface of a tissue lumen by entering the interior of the tissue lumen and applying a polymer to the interior surface of the tissue lumen. This is accomplished using a catheter which delivers the polymer to the tissue lumen and causes it to conform to the interior surface of the lumen. The polymer can be delivered to the lumen as a monomer or prepolymer solution, or as an at least partially preformed layer on an expansile member.

0) US2012163999A – PUMP MODULE, PUMP BASE MODULE AND PUMP SYSTEM

100) Family number: 50932470 (US2012163999A) © PatBase

Title: PUMP MODULE, PUMP BASE MODULE AND PUMP SYSTEM

Priority:

EP20010873800	20101013	EP20010873818	20101013	EP20100187377	20101013
EP20100187378	20101013	EP20100187380	20101013	EP20100187381	20101013
EP20110769877	20111013	EP20110768023	20111013	EP20110768024	20111013
EP20110769878	20111013	US20100392490P	20101013	US20100392492P	20101013
US20100392494P	20101013	US20100392495P	20101013	US20110272257	20111013
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WO2011EP67911	20111013	WO2011EP67913	20111013	WO2011EP67917	20111013
WO2011EP67915	20111013	US20140333202	20140716		

Family:

Publication number	Publication date	Application number	Application date
AU2011315481 AA	20120419	AU20110315481	20111013
AU2011315481 BB	20150129	AU20110315481	20111013
AU2011315482 AA	20120419	AU20110315482	20111013
AU2011315482 BB	20150205	AU20110315482	20111013
AU2011315484 AA	20120419	AU20110315484	20111013
AU2011315484 BB	20150305	AU20110315484	20111013
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CA2814588 AA	20130412	CA20112814588	20111013
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CN103221081 B	20151125	CN201180055649	20111013
CN103221082 A	20130724	CN201180055653	20111013
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CN103338796 B	20160608	CN201180055650	20111013
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IN03180DN2013 A	20141128	IN2013DN03180	20130410
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JP2013541666 T2	20131114	JP20130533219T	20111013
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JP6040155 B2	20161207	JP20130533219T	20111013

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KR20140114264 A	20140926	KR20137012146	20111013	
MX2013004165 A1	20130605	MX20130004165	20111013	
MX2013004167 A1	20130605	MX20130004167	20111013	
US2012163999 AA	20120628	US20110272257	20111013	
US2012207635 AA	20120816	US20110272244	20111013	
US2012207636 AA	20120816	US20110272254	20111013	
US2013011284 AA	20130110	US20110272251	20111013	
US2014328707 AA	20141106	US20140333202	20140716	
US8784079 BB	20140722	US20110272251	20111013	
US9062672 BB	20150623	US20110272254	20111013	
US9062673 BB	20150623	US20110272257	20111013	
US9157430 BB	20151013	US20110272244	20111013	
US9470220 BB	20161018	US20140333202	20140716	
WO12049260 A2	20120419	WO2011EP67911	20111013	
WO12049260 A3	20121220	WO2011EP67911	20111013	
WO12049261 A1	20120419	WO2011EP67913	20111013	
WO12049262 A2	20120419	WO2011EP67915	20111013	
WO12049262 A3	20121220	WO2011EP67915	20111013	
WO12049263 A1	20120419	WO2011EP67917	20111013	

Probable Assignee: FRESENIUS KABI DEUTSCHLAND GMBH

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Inventor(s):(std)**:** BECKER MICHAEL ; BECKER MICHAEL DR ; DR BECKER MICHAEL

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Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; BERESKIN AND PARR LLP SENCRL SRL; KUSCHE ROBERT HANS RICHARD; RICHLY ERIK; FRESENIUS KABI DEUTSCHLAND GMBH; KUSCHE ROBERT; OCCHIUTI AND ROHLICEK LLP; BRANDT MAXIMILIAN 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 QA RO RS RU RW 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

International class (IPC 8–9): A61M39/24 A61M39/26 A61M5/14 A61M5/142 A61M5/168 F01C1/02 F01C1/063 F01C5/00 F01C9/00 F03C2/00 F03C4/00 F04B43/02 F04B43/08 F04B43/12 F04B43/14 F04B45/04 F04C2/00 F04C5/00 F04C9/00 F16K31/126 (Advanced/Invention); A61M1/10 A61M39/24 A61M39/26 A61M5/168 (Advanced/Non–invention)

CPC: F04B43/12 F01C9/005 F04B43/082 F04B43/123 F04B43/1238 F04B43/1253 F04C9/005 A61M5/1413 A61M5/14232 A61M39/24 A61M39/26 A61M2005/16868 A61M2005/16872 A61M2205/128 A61M2205/3351 A61M2205/3355 A61M2205/6045 F04B43/1207 F04B43/14 F16K31/126

European class: A61M5/142G8 A61M5/14M F04B43/12B F04B43/14 K61M205/12V K61M205/33P10 K61M205/33P11 K61M205/60H K61M39/24 K61M39/26 K61M5/168D6D K61M5/168D6U

US class: 1/1 417/474 417/474S 417/476 417/476S 417/477.2 417/53 417/53P 418/49 418/49 418/49P

Classification Explorer

Cited documents: WO9729285 A1, WO200656895, WO10129128 A1, WO10088143 A1, WO07092618 A2, WO06056895 A2, US8790096 BB, US8784079 BB, US7393189 BB, US6595950 BA, US6296460 BA, US6293926 BA, US5992462 A, US5720721 A, US5533886 A, US5466133 A, US5466133, US5458469 A, US5281111 A, US4856339 A, US4544329 A, US4483666 A, US4392794 A, US4351797 A, US3922119 A, US3666230 A, US3131646 A, US2752852 A, US2671412 A, US2636444 A, US2010243087 AA, US2010057058 AA,

US2009221964 AA, US2009053085 AA, US2008317605 AA, US03922119, US02671412, NL7509443 A, JP6235381 A2, JP6235381, JP5928967, JP59028967 A2, JP59028967, JP10502153 T2, JP10502153, GB604740 A, GB1495797 A, FR2690621 A1, FR2079955 A5, EP2226504 A1, EP1099854 A1, EP0604740 B1, EP0604740 A1, EP0149691 A1, DE3227051 A1, DE1528971 A1, DE1528971, DE1078447 B, CN1174940 A,

Forward Citations: WO16198197, WO16146382, WO16146381, WO15173926, WO15136084, US9470220, US2014328707, JP6067187, JP2016523169, GB2528031,

Abstract:
Source: US2012163999A The invention−based pump module (1) comprising a base (2) and a flexibly deformable membrane (4), wherein the base (2) and the membrane (4) form a line−shaped pump channel (5) that is curved at least in sections, and the base (2) comprises a pump channel inlet (6) and a pump channel outlet (7), wherein the pump channel inlet (6) and the pump channel outlet (7) are connected with the pump channel (5) for supplying and discharging a fluid in the pump channel (5) in such a way, so that through a periodically rotating deformation of the membrane (4) a fluid can be pumped through the pump channel (5) from the pump channel inlet (6) to the pump outlet (7).

0) US2003167038A – OCCLUSION CATHETER FOR THE ASCENDING AORTA

101) Family number: 23208865 (US2003167038A) © PatBase

Title: Occlusion catheter for the ascending aorta

Priority: CA20012342597 20010403 JP19990283371 19991004 US20030715646 20031118 US20010846002 20010430 JP20010104525 20010403 JP20000158152 20000529

Family:

Publication number	Publication date	Application number	Application date
CA2342597 AA	20011129	CA20012342597	20010403
CA2342597 C	20100525	CA20012342597	20010403
DE60104482 D1	20040902	DE20016004482	20010403
DE60104482 T2	20050818	DE20016004482T	20010403
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EP1159984 B1	20040728	EP20010108396	20010403
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JP2002052083 A2	20020219	JP20010104525	20010403
JP4955154 B2	20120620	JP20010104525	20010403
US2003167038 AA	20030904	US20010846002	20010430
US2004102734 AA	20040527	US20030715646	20031118
US6679861 BB	20040120	US20010846002	20010430
US7041079 BB	20060509	US20030715646	20031118

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Assignee(s): KUMENO TAKASHI ; YOZU RYOHEI ; TSUTSUI NOBUMASA ; K K VAYU ; KABUSHIKI KAISHA VAYU ; KABUSHIKI KAISHA VAYU NAGOYA SHI ; KK VAYU

Inventor(s):(std)**:** KUMENO TAKASHI ; SHITSU RIYOUHEI ; TSUTSUI NOBUMASA ; YOZU RYOHEI

Agent(s): GOWLING LAFLEUR HENDERSON LLP; DAVIS AND BUJOLD PLLC

Designated states: DE FR GB IT NL

International class (IPC 8–9): A61B17/12 A61F2/958 A61M1/36 A61M25/00 A61M25/04 A61M25/10 A61M29/00 A61M39/00 A61M39/10 (Advanced/Invention); A61B17/00 A61M25/00 A61M29/02 (Advanced/Non–invention); A61M25/00 (Core/Invention)

International class (IPC 1–7): A61B17/12 A61M1/36 A61M25/00 A61M25/04 A61M25/10 A61M29/00 A61M39/00

CPC: A61B17/12109 A61B17/12136 A61B2017/00243 A61M25/0029 A61M25/003 A61M25/10 A61M25/1002 A61M2025/004 A61M2025/1052 A61M2025/1056 A61M2025/1095 A61M2025/1097 A61M2210/127 A61M25/0032

European class: A61B17/12P4 A61B17/12P5B A61B17/12P7B A61M25/00R1M6 A61M25/10 A61M25/10A K61B17/00E1C K61M210/12C K61M25/00R1M20 K61M25/00R1M4 K61M25/00R1M8 K61M25/10 K61M25/10Z23 K61M25/10Z24 K61M25/10Z4 K61M25/10Z6

US class: 604/101.01 604/101.010P 604/102.01 604/102.010P 604/102.02 604/103.07 604/103.070S 604/104 604/96.01 606/192 606/194

Classification Explorer

Cited documents: WO9930766 A1, WO9848884 A2, US6347247 BA, US6346074 BA, US6322577 BA, US6132397 A, US6117105 A, US6045531 A, US6021340 A, US5997558 A, US5855563 A, US5814016 A, US5312344 A, US5046503 A, US5024234 A, US5021045 A, US4950239 A, US4892519 A, US4592340 A, JP62041635 A2, JP59067969 A2, JP4027946 A2, JP2000140120 A2, JP2000014764 A2, JP11342196 A2,

Forward Citations: WO16158294, WO14107178, WO14022802, WO13111848, WO11161146, WO07129312, WO05011794, WO04012805, WO04012805, US9561035, US9474882, US9439758, US9332999, US9332998, US9308019, US9265938, US9237897, US9126035, US9060802, US8961494, US8870813, US8784471, US8636712, US8636670,

US8634935, US8632556, US8512310, US8409132, US8403881, US8337425, US8333589, US8323261, US8317776, US8068920, US7844090, US7749193, US7561727, US7463758, US7396354, US6835188, US2015025567, US2013245552, US2013109906, US2011166644, US2010241070, US2010069945, US2010063534, US2010057181, US2009216094, US2009088685, US2009076447, US2008082136, US2007106320, US2007005010, US2006280350, US2006274927, US2006195135, US2005177105, US2005154373, JP4441159, JP2014524293, JP2014524292, JP2010194300, JP2003250898, FR2961683, EP1642537,

Abstract:
Source: US2003167038A An occlusion catheter for the ascending aorta capable of obstructing the blood flow within the ascending aorta without inserting through the femoral artery. The occlusion catheter is provided with a drug release aperture formed in the region, which is closer to the proximal end of the catheter tube than a balloon on the outer circumference of the distal end and which is to be located in the vicinity of the coronary ostium when the balloon is placed within the ascending aorta. The present occlusion catheter, when inserted directly into the ascending aorta in the vicinity of the heart to obstruct the blood flow therewithin, enables delivery of a cardiac muscle protective drug to the vicinity of the coronary ostium without inserting the occlusion catheter through the femoral artery in the conventional manner.

0) US2002053346A – NASAL CANNULA

102) Family number: 30003246 (US2002053346A) © PatBase

Title: NASAL CANNULA

Priority: US19970045080P 19970429 US19980184111 19981102 US20010837720 20010418 US20030627502 20030725 US20070902935P 20070222 US20080035744 20080222 US20050155901 20050617 WO2006US23513 20060616 WO1998US05573 19980403

Family:

Publication number	Publication date	Application number	Application date
AT307632 E	20051115	AT19980914270T	19980403
CA2288010 AA	19991026	CA19982288010	19980403
CA2288010 C	20070731	CA19982288010	19980403
CA2612566 AA	20071217	CA20062612566	20060616
CA2612566 C	20141014	CA20062612566	20060616
DE69832061 D1	20051201	DE19986032061	19980403
DE69832061 T2	20060727	DE19986032061T	19980403
EP0979117 A1	20000216	EP19980914270	19980403
EP0979117 A4	20020327	EP19980914270	19980403
EP0979117 B1	20051026	EP19980914270	19980403
EP1893271 A2	20080305	EP20060773360	20060616
EP1893271 A4	20091209	EP20060773360	20060616
JP2002503982 T2	20020205	JP19980546975T	19980403
JP2008543448 T2	20081204	JP20080517156T	20060616
JP4145961 B2	20080903	JP19980546975T	19980403
US2002053346 AA	20020509	US19980184111	19981102
US2004045552 AA	20040311	US20030627502	20030725
US2005284484 AA	20051229	US20050155901	20050617
US2010113956 AA	20100506	US20080035744	20080222
US6439234 BA	20020827	US19980184111	19981102
US6655385 BA	20031202	US20010837720	20010418
US7640932 BB	20100105	US20050155901	20050617
WO06138580 A2	20061228	WO2006US23513	20060616
WO06138580 A3	20070920	WO2006US23513	20060616
WO06138580 C1	20071206	WO2006US23513	20060616
WO9848876 A1	19981105	WO1998US05573	19980403

Probable Assignee: SALTER LABS

Assignee(s):(std)**:** CHUA JAMES ; CURTI JAMES N ; CURTI JAMES NOAH ; SALTER LABS ; SALTER PETER W ; SALTERS LABS ; SALTERS LABS ARVIN

Assignee(s): SALTER LABS100 WEST SYCAMORE ROADARVINCA93203US ; GENERAL ELECTRIC CAPITAL CORP ; HEALTHCARE FINANCIAL SOLUTIONS LLC SUCCESSOR AGENT AS

Inventor(s):(std)**:** CURTI NOAH ; SALTER W ; SALTER PETER W ; CURTI JAMES N ; CHUA JAMES ; CURTI JAMES NOAH

Inventor(s): CURTI JAMES ; SALTER PETER ; SALTER PETER WUS ; CHUA JAMESUS ; CURTI JAMES NUS

Agent(s): THOMPSON DOUGLAS B; WOODRUFF NATHAN V; WATTS PETER GRAHAM; DAVIS AND BUJOLD PLLC

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 LA 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

International class (IPC 8–9): A61B5/087 A61B5/097 A61G10/00 A61M15/00 A61M15/08 A61M16/00 A61M16/06 (Advanced/Invention); A61B5/08 (Core/Invention)

International class (IPC 1–7): A61M15/08 A61M16/00 A61M16/06 A62B7/00

CPC: Y10S128/912 A61M16/085 A61M16/0666 A61B5/083 A61B5/087 A61B5/097 A61B5/4806 A61B5/4818 A61B5/6819 A61M2210/0625 A61M2230/432 A61M2016/0021 A61M2016/0027 A61M2016/0039 A61M2202/0208 A61M16/1055 A61M16/106 A61M2205/7536

European class: A61B5/083 A61B5/087 A61B5/097 A61B5/48C A61B5/68B2B4 A61M16/06L K61B5/48C8 K61M16/00A10 K61M16/00A14B4 K61M16/00A8B2 K61M16/08D6G K61M202/02A K61M210/06D K61M230/43C

US class: 128/200.26 128/200.260S 128/203.22 128/204.18 128/204.21 128/204.22 128/204.23 128/206.11 128/206.110S 128/207.18 128/207.180P 128/912 600/538 600/538P

Classification Explorer

Cited documents: WO8909565 A1, WO05044331 A2, WO05035021 A2, WO05011556 A2, US7108659 BB, US7007694 BB, US6655385 BA, US6439234 BA, US6422240 BA, US6379312 BB, US6213955 BA, US5735268 A, US5682881 A, US5664567 A, US5626131 A, US5477852 A, US5400781 A, US5335656 A, US5299118 A, US5137017 A, US5131387 A, US5046491 A, US4958075 A, US4753233 A, US4660555 A, US4156426 A, US3643660 A, US2693800 A, US2007175473 AA, US2005103347 AA, US2005051176 AA, US2002029004 AA, US2001031929 AA, JP3067090 U1, JP2007518451 T2, JP2004506457 T2, JP2002503982 T2, JP2000084080 A2, FR2622115 A1,

Forward Citations: WO16118922, WO16035035, WO15189438, WO15051064, WO14143847, WO14124953, WO13036839, WO12149512, WO12149512, WO12037469, WO12037469, WO11129681, WO10115168, WO10076713, WO10076712, WO06017059, WO06017059, WO06015224, WO06015224, WO05018524, WO03022341, WO0189381, USRE42843, USD757927, USD753816, USD747471, USD724720, USD703312, USD678510, USD669576, USD665496, USD659237, USD652909, USD645557, USD627059, USD626646, USD623288, USD597659, USD597199, USD591419, USD583049, USD583048, USD583047, USD551340, USD550836, US9656037, US9604024, US9561339, US9561338, US9550039, US9550038, US9549795, US9539405, US9517317, US9492106, US9486599, US9480809, US9440039, US9381316, US9358358, US9339624, US9339622, US9333315, US9320866, US9308234, US9295800, US9259542, US9238116, US9227034, US9220860, US9216266, US9216265, US9180270, US9162034, US9149594, US9138555, US9138553, US9138169, US9132250, US9119931, US9067033, US9044565, US9044562, US9032959, US9032955, US9027556, US9027553, US9022029, US8997747, US8991395, US8985099, US8979823, US8960196, US8955518, US8944061, US8944060, US8944059, US8939152, US8925548, US8925545, US8915861, US8915251, US8915250, US8910635, US8905031, US8905028, US8887727, US8887725, US8881730, US8869798, US8869797, US8807135, US8789532, US8783257, US8776793, US8770199, US8770193, US8757162, US8746251, US8733358, US8707950, US8683998, US8677999, US8667964, US8652064, US8616211, US8613281, US8613280, US8578935, US8573219, US8573215, US8573214, US8573213, US8567404, US8567399, US8555885, US8550084, US8550083, US8550082, US8550081, US8528561, US8522784, US8517023, US8485192, US8425428, US8418694, US8381729, US8333200, US8297285, US8291906, US8261745, US8196585, US8171935, US8136527, US8136525, US8091554, US8042539, US8025058, US7997271, US7958893, US7942150, US7942148, US7905232, US7866320, US7832400, US7753991, US7708017, US7658189, US7640932, US7559327, US7509741, US7481219, US7472707, US7406966, US7305988, US7234465, US7191781, US7188624, US7156096, US7152604, US7096867, US7066180, US7059328, US7047974, US7017576, US7013898, US7007694, US7007692, US7000613, US6997177, US6994089, US6986353, US6913017, US6848446, US6807967, US6799575, US6776162, US6679265, US6637434, US2016120441, US2014276169, US2012289851, US2012234324, US2012199135, US2012160248, US2012111331, US2011284001, US2011108033, US2011046500, US2010192957, US2010168601, US2010113955, US2010081955, US2009247891, US2009178679, US2009173350, US2009069646, US2009032018, US2009000616, US2008275357, US2008216843, US2008196728, US2008129063, US2008121230, US2008078393, US2008076094, US2008060657, US2007272249, US2007272247, US2007186930, US2007144518, US2007137653, US2007125380, US2007113856, US2007113850, US2007113848, US2007113847, US2007107737, US2007095347, US2006283461, US2006278232, US2006201512, US2006174887,

US2006174885, US2006169281, US2006156548, US2006150982, US2006021615, US2006005842, US2006000472, US2005284484, US2005279351, US2005257794, US2005236000, US2005235999, US2005166929, US2005166928, US2005161049, US2005133040, US2005126574, US2005121033, US2005103347, US2005092329, US2005092322, US2005092321, US2005066976, US2005045182, US2005039757, US2005028823, US2005028821, US2004231675, US2004219810, US2004134498, US2004103899, US2004065330, US2004035431, US2004020493, US2003127094, US2003111081, US2003047185, US2002017300, RU2537062, JP4694755, JP2015062727, JP2012522609, JP2012513856, JP2012513806, JP2009172347, JP2008543448, JP2003038647, GB2509922, FR2958169, FR2958168, EP3075406, EP2371413, EP2247331, EP2247331, EP2236080, EP2112937, EP2112937, EP1694193, EP1694193, EP1680164, EP1680164, EP1425060, CN103037925, CN102481425, CN102271740, CN101856230,

Abstract:
Source: US2002053346A This invention is a nasal cannula (10) having a septum (15) therein, and two nares (13, 14) each having a hole (37, 35) therein to help prevent occlusion of the device from secretions. The cannula is connected to an oxygen source (G) and a CO2 monitor (A).

103) Family number: 47843127 (US2011009799A) © PatBase

Title: ANTITHROMBOGENIC HOLLOW FIBER MEMBRANES AND FILTERS

Priority:

EP20100014044	20100514	EP20100754844	20100514	JP20130516412	20100514
JP20140051179	20100514	JP20130516412T	20100514	JP20150020185	20100514
US20100780200	20100514	US20100834730	20100712	WO2010CA00746	20100514
US20090178861P	20090515	US20140491324	20140919	JP20150020185	20150204
US20160132846	20160419	WO2010CA00746	20090515		

Family:

Publication number	Publication date	Application number	Application date
AU2010224421 AA	20101202	AU20100224421	20100924
AU2010224421 BB	20150611	AU20100224421	20100924
AU2010224421 BI	20151008	AU20100224421	20100924
CA2716502 AA	20100930	CA20102716502	20100514
CA2716502 C	20150616	CA20102716502	20100514
CL2010001051 A1	20110715	CL20100001051	20100930
CN102316965 A	20120111	CN201080001316	20100514
CN102316965 B	20160518	CN201080001316	20100514
DE602010035273 D1	20160922	DE201060035273T	20100514
DK2295132 T3	20161205	DK20100014044T	20100514
DK2295132 T3	20161205	DK19100014044T	20100514
EP2295132 A1	20110316	EP20100014044	20100514
EP2295132 B1	20160810	EP20100014044	20100514
EP2295132 B8	20161214	EP20100014044	20100514
EP2295132 B8	20170315	EP20100014044	20100514
ES2602757 T3	20170222	ES20100014044T	20100514
HR20161441 T1	20170127	HR20160001441	20161102
HR20161441 T8	20170224	HR20160001441	20161102
JP2014138881 A2	20140731	JP20140051179	20140314
JP2015131118 A2	20150723	JP20150020185	20150204
JP2016052525 A2	20160414	JP20150206895	20151021
JP5702857 B1	20150415	JP20130516412T	20100514
JP5871977 B2	20160301	JP20140051179	20140314
KR101331056 B1	20131119	KR20107021872	20100514
PL2295132 T3	20170228	PL20100014044T	20100514
PT2295132 T	20161115	PT20100014044T	20100514
US2011009799 AA	20110113	US20100834730	20100712
US2015008179 AA	20150108	US20140491324	20140919
US2016228632 AA	20160811	US20160132846	20160419
US8877062 BB	20141104	US20100834730	20100712

Probable Assignee: INTERFACE BIOLOGICS INC

Assignee(s):(std)**:** CHANG WEILUN ; CHEN HANJE ; ESFAND ROSEITA ; INTERFACE BIOLOG INC ; INTERFACE BIOLOGICS INC ; NTERFACE BIOLOGICS INC ; NTERFACE BIOLOG INC ; STEEDMAN MARK ; MULLICK SANJOY

Assignee(s): INTERFACE BIOLOGICS INC TORONTO

Inventor(s):(std)**:** SANJOY MULICK ; WEILUN CHANG ; STEEDMAN MARK ; SANJOY MULLICK ; ROSEITA ESFAND ; MULLICK SANJOY ; MARK STEEDMAN ; HANJE CHEN ; ESFAND ROSEITA ; CHEN HANJE ; CHANG WEILUN ; STEEDMAN MARK A ; MULICK SANJOY

Agent(s): SPRUSON AND FERGUSON; BORDEN LADNER GERVAIS LLP; SARGENT; LAHRTZ FRITZ; CARVAJAL Y ISABEL; ARAI EIICHI; FUJITA TAKASHI; TANAKA NATSUO;

HIRAKI YUSUKE; CLARK AND ELBING LLP; KRISTINA

Designated states: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

International class (IPC 8–9): A61K35/14 A61L33/00 A61L33/06 A61M1/00 A61M1/14 A61M1/16 A61M1/18 A61M1/34 A61M1/36 A61M1/38 B01D61/00 B01D61/20 B01D61/24 B01D61/28 B01D63/02 B01D63/04 B01D67/00 B01D69/02 B01D69/08 B01D71/06 B01D71/26 B01D71/44 B01D71/68 B01D71/76 B01J41/00 B29C47/14 C07K1/34 C08G18/78 C08L27/06 C08L39/06 C08L75/04 C08L81/06 (Advanced/Invention); B29C47/00 B29L23/00 B29L31/00 (Advanced/Non–invention)

CPC: A61M1/3672 B01D63/022 B01D67/0093 B01D69/02 B01D69/087 B01D71/44 B01D71/68 B01D2323/30 B29C47/00 B29C47/0014 B29C47/0026 B29L2023/00 B29L2031/731 B01D2323/36 B01D63/023 A61M1/3673 A61M2202/0413 B01D69/08 A61L33/062

European class: A61M1/36H B01D63/02B10 B01D63/02B10B B01D67/00R18 B01D69/02 B01D69/08 B01D69/08H B01D71/44 B01D71/68 L29C47/00 L29C47/00J2 L29C47/00J7 L29L23/00 L29L31/731

US class: 138/118 210/295 210/295S 210/321.61 210/321.8 210/321.800S 210/321.89 210/500.23 210/500.230S 210/500.24 210/500.240S 210/500.27 210/500.41 210/500.43 210/645 210/646 210/646S 264/177.2 264/177.200S 521/25 521/25S 604/19 604/5.01 604/6.01 604/6.09 604/6.14 604/6.140P

Classification Explorer

Cited documents: WO9834718 A1, WO9706195 A1, WO9526993 A1, WO11072398 A1, WO10025398 A1, WO10000746 A1, WO08076345 A1, WO07084514 A2, WO04056459 A1, US9266708 P, US8877062 BB, US8178620 BB, US8071683 BB, US6685832 BB, US6448364 BA, US6353057 BA, US6348152 BA, US6254645 BA, US6127507 A, US6127485 A, US6111049 A, US611049 A, US6001288 A, US5969082 A, US5954966 A, US5929201 A, US5908701 A, US5779897 A, US5589563 A, US5543200 A, US5542200 A, US5486570 A, US5428123 A, US5395525 A, US5242995 A, US5232601 A, US5149576 A, US5145727 A, US5064871 A, US4994503 A, US4966699 A, US4906375 A, US4879032 A, US4874522 A, US4861830 A, US4792354 A, US4788083 A, US4743629 A, US4742090 A, US4661530 A, US4584362 A, US4424311 A, US4332927 A, US4312907 A, US4284506 A, US4256617 A, US4031012 A, US3962094 A, US3872058 A, US3722695 A, US3708071 A, US3551331 A, US3546209 A, US3503515 A, US3483150 A, US3442088 A, US3427366 A, US3423491 A, US3392183 A, US3362921 A, US3339341 A, US3228877 A, US3228876 A, US2972349 A, US2012220724 AA, US2012148774 AA, US2011207893 AA, US2011009799 AA, US2010063585 AA, US2009211968 AA, US2008237127 AA, US2008228253 AA, US2007037891 AA, US2005176893 AA, US2004234575 AA, US2004121175 AA, US2004063200 AA, US2003021826 AA, RU2215012 C2, KR910009393 B1, KR910009393, KR910002208 B1, KR910002208, KR20080034988 A, KR20010071241 A, JP612868 A2, JP61002868 A2, JP2004248904 A2, JP2004248904, JP2001300272 A2, JP2001300272, JP2000317275 A2, EP0894823 B1, EP0894823 A1, EP0615778 A1, EP0335664 A2, EP0332261 A1, EP0231927 A2, EP0073978 A2, EP0068509 A2, CN1894302 A, CN1711127 A,

Forward Citations: US9517296, US9415152, US9360129, US9358331, US9354640, US9352282, US9308307, US9295772, US9206283, US9199022, US9157786, US8877062, US8784402, US8771511, US8603070, US8597505, US8535522, US8395761, US8338537, US8318867, US8178620, US2015008179, US2014343178, US2011207893, US2010252490, US2010234786, US2010140149, EP2990099, CN104906971, CN104841285,

Abstract:
Source: US2011009799A The invention relates to extracorporeal blood circuits, and components thereof (e.g., hollow fiber membranes, potted bundles, and blood tubing), including 0.005 percent to 10 percent (w/w) surface modifying macromolecule. The extracorporeal blood circuits have an antithrombogenic surface and can be used in hemofiltration, hemodialysis, hemodiafiltration, hemoconcentration, blood oxygenation, and related uses.

104) Family number: 31383613 (US2004244896A) © PatBase

Title: EXPANDABLE SPINDLE PLUG ASSEMBLY FOR USE WITH AUTOMATIC TIRE INFLATION SYSTEMS

Priority:

AU19990040720	19990506	US19980079571	19980514	US20030457793	20030609
US20040851441	20040521	US20010993019	20011113	US20000522623	20000310
US20070963612	20071221	US20080130765	20080530	US20080146287	20080625
WO1999US10073	19990506	US20050051314	20050204	US20040941774	20040915
US20070761310	20070611	US20050220425	20050907	WO2004IB01867	20040608

Family:

Publication number	Publication date	Application number	Application date
AT335620 E	20060915	AT19990924151T	19990506
AT343485 E	20061115	AT20040736328T	20040608
AU199940720 A1	19991129	AU19990040720	19990506
AU2003244585 AA	20031002	AU20030244585	20030905
AU2003244585 BB	20060413	AU20030244585	20030905
AU761342 B2	20030605	AU19990040720	19990506
BRPI9910453 A	20010130	BR1999PI10453	19990506
CA2332294 AA	20001114	CA19992332294	19990506
CA2332294 C	20050426	CA19992332294	19990506
CA2528537 AA	20051207	CA20042528537	20040608
CN100431858 C	20081112	CN200510070922	19990506
CN1204012 C	20050601	CN19998007643	19990506
CN1306478 A	20010801	CN19998007643	19990506
CN1676354 A	20051005	CN200510070922	19990506
CN1805864 A	20060719	CN200480016138	20040608
DE602004002955 D1	20061207	DE200460002955T	20040608
DE602004002955 T2	20070531	DE200460002955T	20040608
DE69932718 D1	20060921	DE19996032718	19990506
DE69932718 T2	20070913	DE19996032718T	19990506
EP1077816 A1	20010228	EP19990924151	19990506
EP1077816 A4	20030604	EP19990924151	19990506
EP1077816 B1	20060809	EP19990924151	19990506
EP1631464 A1	20060308	EP20040736328	20040608
EP1631464 B1	20061025	EP20040736328	20040608
JP2002514540 T2	20020521	JP20000548175T	19990506
JP3843213 B2	20061108	JP20000548175T	19990506
KR20010043577 A	20010525	KR20007012715	20001114
MXPA00011195 A1	20030519	MX2000PA11195	19990506
US2004244896 AA	20041209	US20030457793	20030609
US2005000615 AA	20050106	US20040851441	20040521
US2005115655 AA	20050602	US20040941774	20040915
US2005133134 AA	20050623	US20050051314	20050204
US2006005908 AA	20060112	US20050220425	20050907
US2007227640 AA	20071004	US20070761310	20070611
US2008185086 AA	20080807	US20070963612	20071221
US6105645 A	20000822	US19980079571	19980514
US6585019 BA	20030701	US20000522623	20000310
US6938658 BB	20050906	US20030457793	20030609
US6968882 BB	20051129	US20040851441	20040521

US7117909 BB	20061010	US20040941774	20040915	
US7302980 BB	20071204	US20050220425	20050907	
US7418989 BB	20080902	US20070761310	20070611	
US7975739 BA	20110712	US20080130765	20080530	
US8028732 BA	20111004	US20080146287	20080625	
WO04108440 A1	20041216	WO2004IB01867	20040608	
WO9958353 A1	19991118	WO1999US10073	19990506	

Probable Assignee: AIRGO IP LLC

Assignee(s):(std)**:** AIRGO IP LLC ; AIRGO IP LLP ; ANTHONY INGRAM ; ANTHONY L INGRAM ; INGRAM ANTHONY L ; JARRETT LARRY G ; JONES JOHNATHAN G ; INGRAM ANTHONY

Assignee(s): AIRGO SYSTEMS LLC ; AIRGO IP LLC PO BOX

Inventor(s):(std)**:** ANTHONY L INGRAM ; JARRETT LARRY G ; JARRETT LARRY G JONES JOHNATHA ; JONES JOHNATHAN G ; ROBERTS PATRICK E ; PENWELL MICHAEL H ; JONES G ; JARRETT G ; BURGESS CALVIN ; INGRAM ANTHONY L

Inventor(s): JONES JOHNATHAN ; INGRAM ANTHONY ; JARRETT LARRY

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; SMART AND BIGGAR; HOLLAND AND KNIGHT LLP; RICHARD E; LYON JR RICHARD E; FELLERS SNIDER ET AL; DANIEL P

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 UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): B60B23/10 B60B27/02 B60C23/00 B60C23/10 B60C29/00 B60C29/06
F16N99/00 (Advanced/Invention);
B60C23/00 (Advanced/Non–invention);
B60C23/00 (Core/Invention)

International class (IPC 1–7): B60C23/00 B60C23/10 B60C29/00

CPC: Y10T403/7054 Y10T403/7056 B60C23/003

European class: B60C23/00B2

US class: 152/415 152/416 152/417 184/5.1 184/5.100S 301/105.1 301/108.1 301/124.1 403/369 403/370

Classification Explorer

Cited documents: US7418989 BB, US7418989 B1, US7302980 BB, US7117909 BB, US6968882 BB, US6968882 B1, US6938658 BB, US6938658 BA, US6892778 BB, US6892778 BA, US6698482 BB, US6698482 BA, US6585019 BA, US6527472 BA, US6484774 BA, US6425427 BA, US6394556 BA, US6325463 BA, US6269691 BA, US6244316 BA, US6145559 A, US6131631 A, US6105645 A, US6085782 A, US6024417 A, US5860708 A, US5769979 A, US5767398 A, US5752746 A, US5584949 A, US5558408 A, US5538330 A, US5538062 A, US5492393 A, US5482358 A, US5429167 A, US5398743 A, US5377736 A, US5287906 A, US5236028 A, US5174839 A, US5080157 A, US5080156 A, US4924926 A, US4883106 A, US4844138 A, US4805681 A, US4685501 A, US4641698 A, US4582107 A, US4387931 A, US3847493 A, US3838717 A, US3705614 A, US3367722 A, US3276503 A, US2976606 A, US2849047 A, US2685906 A, US2657731 A, US2242207 A, US2177042 A, US2156841 A, US2090089 A, US2005133134 AA, US1827662 A, US1205504 A, US1165057 A, US1083847 A, US1072907 A, US1054504 A, US1016896 A, JP61153017 A2, JP61149615 A2, FR2678030 A1,

Forward Citations: WO17072140, WO16205135, WO16126936, WO16019057, WO16005936, WO15070214, WO14197800, WO13119634, WO12170721, WO12027335, WO12016195, WO12015669, WO11163274, WO11163274, WO10091843, WO10036870, WO08063863, WO08063863, WO07077754, WO05027065, WO04080729, WO04080729, US9616710, US9592708, US9511635, US9511624, US9457624, US9446637, US9409449, US9375985, US9370974, US9365074, US9346330, US9308786, US9221447, US9221308, US9151727, US9132704, US8919401, US8910683, US8881586, US8869850, US8789730, US8746305, US8528611, US8505600, US8393205, US8327895, US8245746, US8186403, US8141590, US8047246, US8042585, US8028732,

US7975739, US7963159, US7926530, US7896045, US7669465, US7530379, US7458256, US7422031, US7418989, US7416005, US7306020, US7302980, US7302979, US7273082, US7225940, US7207365, US7201066, US7185688, US7117909, US7117909, US6968882, US6938658, US6892778, US6871683, US6705369, US6698482, US6585019, US6435238, US6427739, US6425427, US6394556, US6394159, US6325124, US6286565, US6244316, US2016193870, US2016031270, US2016009148, US2015231937, US2014265533, US2014196812, US2014028080, US2013269849, US2013199685, US2013087262, US2012318422, US2012067482, US2012032793, US2012024445, US2011180192, US2010237111, US2010180678, US2010129149, US2010032043, US2009283190, US2009242092, US2009241655, US2008185086, US2008127773, US2007227640, US2006231184, US2006207705, US2006179929, US2006018766, US2006005908, US2005257872, US2005200123, US2005194080, US2005194079, US2005161136, US2005156463, US2005133134, US2005115655, US2005072079, US2005052074, US2005000615, US2004238093, US2004173296, US2004155516, US2002139463, KR101401556, KR100868317, JP2013137215, JP2007176364, EP3144161, EP3103662, EP3028879, EP2972107, EP2812197, EP2799260, EP2598347, EP2582977, EP1930188, EP1714803, EP1714803, EP1265761, DE202015105702, DE102012008002, CN105764716, CN105431669, CN104648055, CN104139674, CN104129242, CN103282655, CN103282655, CN103025546, CN103025546, CN103003074, CN103003074, CN102317131, CN102317131, AU2012267894, AU2012244247, AU2011283659, AU2011271099, AU2007324042,

Abstract:
Source: US2004244896A An assembly to be mounted in an axial spindle for communicating pressurized air from the axle to a rotary union in a tire inflation system. The assembly includes an arbor having an air flow channel extending therethrough, a flange intermediary of the arbor ends and an axially inclined portion proximate the flange. A sealing member is carried by the flange for forming an airtight seal with the axle spindle. A split ring locking assembly is disposed about the inclined portion of the arbor that is comprised of a plurality of segments held by an expansible retention spring. The segments move radially outwardly upon the locking assembly being moved along the inclined arbor portion and engage the axle spindle, securing the plug assembly within the spindle. A fastening member threadably engages the arbor for urging the locking assembly along the inclined arbor portion to effect securement of the plug assembly within the axle spindle.

105) Family number: 32586477 (US2006024266A) © PatBase

Title: SIDE–CHAIN CRYSTALLIZABLE POLYMERS FOR MEDICAL APPLICATIONS

Priority:

AU20070207700	20070116	AU20110200350	20110128	CA20072636004	20070116
US20050176638	20050707	US20040586796P	20040708	EP20070716622	20070116
JP20080551307	20070116	CA20132636004	20131107	CA20072831518	20070116
WO2007US01011	20070116	WO2005US24289	20050707	US20060335771	20060118
US20110101391	20110505	US20110101499	20110505	US20110101504	20110505

Family:

Publication number	Publication date	Application number	Application date
AU2005269868 AA	20060209	AU20050269868	20050707
AU2005269868 BB	20081023	AU20050269868	20050707
AU2007207700 AA	20070726	AU20070207700	20070116
AU2007207700 BB	20101028	AU20070207700	20070116
AU2011200350 AA	20110217	AU20110200350	20110128
AU2011200350 BB	20110707	AU20110200350	20110128
CA2570322 AA	20061214	CA20052570322	20050707
CA2570322 C	20100629	CA20052570322	20050707
CA2636004 AA	20080702	CA20072636004	20070116
CA2636004 C	20140114	CA20072636004	20070116
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CA2831518 C	20150630	CA20072831518	20070116
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JP2012111959 A2	20120614	JP20120038904	20120224
JP5107706 B2	20121226	JP20070520544T	20050707
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RU2383558 C2	20100310	RU20070104489	20050707
RU2445979 C2	20120327	RU20080133340	20070116
US2006024266 AA	20060202	US20050176638	20050707
US2006182779 AA	20060817	US20060335771	20060118
US2011212050 AA	20110901	US20110101499	20110505
US2011213090 AA	20110901	US20110101504	20110505
US2011213456 AA	20110901	US20110101391	20110505

US7939611 BB	20110510	US20050176638	20050707	
US8124700 BB	20120228	US20110101504	20110505	
US8133959 BB	20120313	US20110101499	20110505	
US8703113 BB	20140422	US20060335771	20060118	
WO06014596 A1	20060209	WO2005US24289	20050707	
WO07084444 A2	20070726	WO2007US01011	20070116	
WO07084444 A3	20080717	WO2007US01011	20070116	

Probable Assignee: REVA MEDICAL INC

Assignee(s):(std)**:** BRANDOM DONALD K ; MALLON JOSEPH J ; MCGRATH JAMES E ; REVA MEDICAL INC ; REVA MEDIKAL INK ; ZELTINGER JOAN ; SCHMID ERIC V ; SCHULTZ ROBERT K

Assignee(s): REVA MEDICAL INC SAN DIEGO

Inventor(s):(std)**:** BRANDOM DONALD K ; BRANDOM DONALD K ZELTINGER JOA ; BREHNDOM DONAL D K ; JOAN ZELTINGER ; MAKGRAT DZHEJMS E ; MALLON DZHOZEF D ; MALLON JOSEPH J ; MCGRATH JAMES E ; SCHMID ERIC V ; SCHULTZ ROBERT K ; SHMID EHRIK V ; SHUL TS ROBERT K ; ZELTINGER DZHOAN ; ZELTINGER JOAN

Inventor(s): ZELTINGER JOAN ENCINITAS ; BRANDOM DONALD ; SHUL'TS ROBERT K. ; SCHULTZ ROBERT K POWAY ; SCHMID ERIC V SAN DIEGO ; SCHULTZ ROBERT ; MCGRATH JAMES E BLACKSBURG ; ROBERT K SCHULTZ ; SCHMID ERIC ; MCGRATH JAMES ; MALLON JOSEPH ; JOSEPH J MALLON ; BREHNDOM DONAL'D K. ; DONALD K BRANDOM ; ERIC V SCHMID ; JAMES E MCGRATH ; BRANDOM DONALD K ZELTINGER JOAN SCHMID ERIC V ; BRANDOM DONALD K ZELTINGER JOAN SCHMID ERIC V MALL ; BRANDOM DONALD K DAVIS

Agent(s): FB RICE; SPRUSON AND FERGUSON; SIM AND MCBURNEY; AIRD AND BERLIS IP PARTNERSHIP LTD; BECKER KURIG STRAUS; STRAUS ALEXANDER; KNOBBE MARTENS OLSON AND BEAR 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 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 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

International class (IPC 8–9): A61F2/02 A61F2/06 A61F2/82 A61F2/92 A61K31/74 A61K31/785 A61K49/00 A61K49/04 A61L27/00 A61L29/00 A61L31/00 A61L31/04 A61L31/06 A61L31/12 A61L31/14 A61L31/16 A61L31/18 A61P17/02 A61P29/00 A61P35/00 C08F10/00 C08F130/02 C08F14/04 C08F20/00 C08F20/28 C08F212/14 C08F220/00 C08F220/06 C08F220/18 C08F220/28 C08F26/06 C08F265/04 C08F28/06 C08F299/00 C08F30/02 C08F8/00 C08F8/14 C08F8/16 C08G63/00 C08G63/685 C08G64/12 C08G65/40 C08G69/00 C08G77/24 C08G77/44 C08G79/04 C08G85/00 (Advanced/Invention); A61F2/92 C08F8/14 (Advanced/Non–invention); A61K31/74 A61K49/00 A61K49/04 A61L27/00 A61L31/12 A61L31/14 C08F20/00 C08G63/00 C08G64/00 C08G65/00 C08G69/00 C08G77/00 C08G79/00 C08G85/00 (Core/Invention); C08G (Subclass/Invention)

International class (IPC 1–7): C08G63/685 C08G64/12 C08G65/40

CPC: A61B17/12022 A61B17/12036 A61B17/12145 A61B17/12186 A61K31/74 A61K33/18 A61K45/06 A61K49/0442 A61K49/0476 A61L24/0042 A61L31/148 C08F220/18 C08G63/68 C08G63/6826 C08G63/6856 C08G63/6886 C08G63/916 C08G64/10 C08G64/12 C08G64/42 C08G65/40 C08G77/24 C08G2261/126 A61L31/18 A61F2/92 A61L31/06 C08F220/00 C08G63/00

European class: A61B17/12P1P A61B17/12P7C1 A61B17/12P7Z1 A61K31/74 A61K33/18 A61K45/06 A61K49/04H4 A61K49/04H8P A61L24/00H9 A61L31/06 A61L31/14K A61L31/18 C08F220/00 C08G63/00 C08G63/68 C08G63/682D2 C08G63/685D2 C08G63/688D2 C08G63/91D2 C08G64/10 C08G64/12 C08G64/42 C08G65/40 C08G77/24 K61B17/12P K61F2/92 M08F220/18 M08G261/126

US class: 424/423 424/423P 424/78.08 424/78.17 424/78.170P 424/78.18 424/78.31 424/78.34 424/78.37 424/78.370P 525/288 525/288P 525/386 525/386S 525/410 525/410S 526/240 526/240S 526/256 526/258 526/274 526/293 526/293S 526/296 528/208 528/208S 528/30 528/30S 623/1.11 623/1.110S 623/1.15 623/1.150P 623/1.34

Cited documents: WO9924391 A1, WO9846286 A1, WO9836013 A1, WO9820928 A1, WO9014046 A1, WO06020616 A1, WO06014596 A1, WO04110313 A1, WO04086458 A2, WO04086458, US8133959 BB, US8124700 BB, US7939611 BB, US7473417 BB, US6932930 BB, US6831116 BB, US6652572 BB, US6623521 BB, US6599448 BA, US6562021 BA, US6550480 BB, US6544453 BB, US6492462 BB, US6475477 BA, US6447508 BA, US6409752 BA, US6388043 BA, US6375669 BA, US6238687 BA, US6224626 BA, US6200338 BA, US6036715 A, US6033436 A, US6019785 A, US6015424 A, US60152604 P, US6007545 A, US5989280 A, US5984963 A, US5912225 A, US5910816 A, US5876419 A, US5836965 A, US5800393 A, US5769868 A, US5755708 A, US5749888 A, US5741293 A, US5735872 A, US5733328 A, US5670602 A, US5626600 A, US5618299 A, US5613952 A, US5607467 A, US5607467, US5549662 A, US5549556 A, US5545138 A, US5545135 A, US5527337 A, US5496346 A, US5496275 A, US5469867 A, US5466439 A, US5451233 A, US5449382 A, US5445646 A, US5443500 A, US5443477 A, US5441515 A, US5423321 A, US5350395 A, US5344426 A, US5306286 A, US5300085 A, US5242399 A, US5232445 A, US5230349 A, US5198507 A, US5197978 A, US5163952 A, US5158548 A, US5151100 A, US5108416 A, US5092877 A, US5061273 A, US5059211 A, US5040548 A, US4980449 A, US4929494 A, US4863735 A, US4762129 A, US4755573 A, US4748982 A, US4733665 A, US4638045 A, US20065605, US2005106119 AA, US2004127970 AA, US2004088458 AA, US2004086461 AA, US2004086458 AA, US2004086458, US2001046505 AA, US1626904 A, JP8503386 T2, JP7300555 A2, JP7300555, JP7027766 A2, JP7027766, JP62034101 A2, JP62034101, JP34101, JP300555, JP27766, JP259298, JP2001522826 T2, JP2001522826, JP2001514618 T2, JP2001514618, JP10309313 A2, JP10259298 A2, JP10259298, GB1244207 A,

Forward Citations: WO16103224, WO09126479, WO09126479, WO08100346, WO08100346, WO07106594, WO07106594, US9649412, US9605112, US9456860, US9452068, US9416090, US9408732, US9402859, US9314354, US9259515, US9173751, US9149378, US9080015, US9066827, US9062141, US9050402, US8939933, US8771253, US8765161, US8735644, US8703113, US8702716, US8685367, US8617235, US8617140, US8551511, US8545547, US8540762, US8523936, US8512394, US8507639, US8501290, US8476399, US8460363, US8415449, US8292944, US8288590, US8277500, US8235939, US8226719, US8172894, US8163974, US8133959, US8124700, US8084664, US8034365, US8029498, US8008528, US7988721, US7947071, US7939611, US7914574, US7763769, US7763065, US7722662, US7704275, US7700819, US7473417, US2011245909, US2011213456, US2011213090, US2011212050, US2011172759, US2011086001, US2010292773, US2010268176, US2010228343, US2010211159, US2010168688, US2010137908, US2009157017, US2009125031, US2008183275, US2008112999, US2008064848, US2007264204, US2007237720, US2007219585, US2007219497, US2007219489, US2007219471, US2007142901, US2007032854, US2006189910, US2006136041, US2006034769, US2006026815, US2006020324, US2005106119, JP5166423, JP4768736, JP2013501107, JP2012180497, JP2010507011, JP2010507010, EP2211773, EP2083764, EP2083764, EP1992371, AU2010257431, AU2007347158, AU2007225053,

Abstract:
Source: US2006024266A Inherently radiopaque side–chain crystallizable polymers (IRSCCP's) are useful in various medical applications. An example of a IRSCCP is a polymer that comprises a main chain, a plurality of crystallizable side chains, and a plurality of heavy atoms attached to the polymer, the heavy atoms being present in an amount that is effective to render the polymer radiopaque. A polymeric material that includes a IRSCCP may be fabricated into a medical device useful for at least partially occluding a body cavity. For example, such a medical device may be an embolotherapy product.

0) US2004039311A – ULTRASOUND CATHETER FOR DISRUPTING BLOOD VESSEL...

106) Family number: 30317101 (US2004039311A) © PatBase

Title: ULTRASOUND CATHETER FOR DISRUPTING BLOOD VESSEL OBSTRUCTIONS

Priority: JP20040531258 20030826 JP20040531258T 20030826 US20020229371 20020826 US20060466835 20060824 US20060466738 20060823 US20110153359 20110603 US20120673848 20121109 US20140244247 20140403 US20160098984 20160414 WO2003US26976 20030826

Family:

Publication number	Publication date	Application number	Application date
AU2003262952 AA	20040311	AU20030262952	20030826
AU2003262952 AH	20040311	AU20030262952	20030826
EP1553996 A2	20050720	EP20030793436	20030826
EP1553996 A4	20101229	EP20030793436	20030826
EP1553996 B1	20170315	EP20030793436	20030826
JP2005537051 T2	20051208	JP20040531258T	20030826
JP2010221064 A2	20101007	JP20100134566	20100611
JP4783014 B2	20110928	JP20040531258T	20030826
JP5178780 B2	20130410	JP20100134566	20100611
US2004039311 AA	20040226	US20020229371	20020826
US2007021690 AA	20070125	US20060466738	20060823
US2007021691 AA	20070125	US20060466835	20060824
US2011237983 AA	20110929	US20110153359	20110603
US2013072824 AA	20130321	US20120673848	20121109
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US8308677 BB	20121113	US20110153359	20110603
US8690819 BB	20140408	US20120673848	20121109
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WO04018019 A2	20040304	WO2003US26976	20030826
WO04018019 A3	20040527	WO2003US26976	20030826

Probable Assignee: FLOWCARDIA INC

Assignee(s):(std)**:** FLOWCARDIA INC ; NGUYEN SIMON ; NITA HENRY ; SARGE JEFF ; TRAN MARTINOS

Inventor(s):(std)**:** NGUYEN SIMON ; NITA HENRY ; SARGE JEFF ; TRAN MARTINOS

Inventor(s): HENRY NITA ; JEFF SARGE ; MARTINOS TRAN ; SIMON NGUYEN

Agent(s): HOFFMANN EITLE; ONO SHINJIRO; KOBAYASHI YASUSHI; TOMITA HIROYUKI; CHIBA AKIO; TOTSUKA KIYOTAKA; TOWNSEND AND TOWNSEND AND CREW LLP; KNOBBE MARTENS OLSON AND BEAR LLP; CR BARD INTELLECTUAL PROPERTY; BUCHALTER

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 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 UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): A61B17/20 A61B17/22 A61B18/00 A61H1/00 A61M1/00 A61M25/00 A61M31/00 A61M37/00 A61N7/00 (Advanced/Invention);
A61B17/00 A61B17/32 (Advanced/Non–invention);
A61B17/20 A61B17/22 A61B18/00 A61H1/00 A61M25/00 A61M31/00 (Core/Invention);

A61B17/32 (Core/Non–invention)

International class (IPC 1–7): A61B17/20 A61B18/00 A61H1/00 A61M A61M1/00 A61M25/00

CPC: A61B17/22012 A61B17/22 A61B2017/00477 A61B2017/22015 A61B2017/22018 A61B2017/320072 A61B2017/320084 A61M37/0092 A61B2017/22038

European class: A61B17/22B2 K61B17/00K K61B17/22B2B2 K61B17/22B2B2S K61B17/32U2 K61B17/32U4

US class: 1/1 601/2 601/2P 604/22 604/500 606/169

Classification Explorer

Cited documents: WO9925412, WO9852637, WO9851224, WO9835721, WO9827874, WO9745078, WO9721462, WO9705739, WO9635469, WO9515192, WO9509571, WO9508954, WO9414382, WO9412140, WO9316646, WO9308750, WO9211815, WO9107917, WO9004362, WO9001300 A1, WO9000130 A1, WO8906515 A1, WO8705793, WO8705739 A1, WO06049593, WO05053769 A2, WO04112888, WO04093736 A2, WO04012609, WO03039381, WO0067830, WO0053341 A1, US8226566 BB, US8083727 BB, US7938819 BB, US7776025 BB, US7384407 BB, US7335180 BB, US7297131 BB, US7267650 BB, US7150853 BB, US7056294 BB, US7004173 BB, US6936025 BA, US6866670 BB, US6855123 BB, US6761698 BB, US6733451 BB, US6729334 BA, US6719725 BB, US6702750 BB, US6702748 BA, US6695810 BB, US6695782 BB, US6695781 BB, US6689086 BA, US6685657 BB, US6682502 BB, US6676900 BA, US6660013 BB, US6652547 BB, US6650923 BA, US6635017 BA, US6623448 BB, US6616617 BA, US6615062 BB, US6596235 BB, US6589253 BA, US6573470 BA, US6562031 BB, US6558502 BB, US6554846 BB, US6551337 BA, US6547754 BA, US6544215 BA, US6524251 BB, US6511458 BB, US6508784 BA, US6508781 BA, US6506781 BA, US6494891 BA, US6491707 BB, US6454997 BA, US6454757 BA, US6450975 BA, US6434418 BA, US6433464 BB, US6423026 BA, US6423026, US6416533 BA, US6398736 BA, US6394956 BA, US6387109 BA, US6379378 BA, US6315741 BA, US6309358 BA, US6302875 BA, US6296820 BA, US6296620 BA, US6287317 BA, US6287285 BA, US6287271 BA, US6283983 BA, US6277084 BA, US6241703 BA, US6241692 BA, US6235007 BA, US6231587 BA, US6231546 BA, US6217543 BA, US6210356 BA, US6206842 BA, US6190353 BA, US6179809 BA, US6179809 B1, US6165188 A, US6165127 A, US6159176 A, US6149596 A, US6123698 A, US6113558 A, US6051010 A, US6030357 A, US6029671 A, US6024764 A, US6022309 A, US6007514 A, US6007499 A, US6004280 A, US5997497 A, US5989208 A, US5976119 A, US5971949 A, US5967984 A, US5964223 A, US5957899 A, US5957882 A, US5944737 A, US5937301 A, US5935144 A, US5935142 A, US5916912 A, US5916192 A, US5904667 A, US5902287 A, US5895397 A, US5830222 A, US5827203 A, US5816923 A, US5797876 A, US5738100 A, US5728062 A, US5720724 A, US5715825 A, US5695507 A, US5695460 A, US5658282 A, US5649935 A, US5626593 A, US5618266 A, US5611807 A, US5607421 A, US5597882 A, US5597497 A, US5542917 A, US5540856 A, US5540656 A, US5527273 A, US5516043 A, US5507738 A, US5487757 A, US5484398 A, US5480379 A, US5474531 A, US5465733 A, US5451209 A, US5449369 A, US5447509 A, US5443078 A, US5431663 A, US5431168 A, US5427118 A, US5421923 A, US5417872 A, US5417703 A, US5417672 A, US5409483 A, US5405318 A, US5397301 A, US5397293 A, US5391144 A, US5389096 A, US5383460 A, US5382228 A, US5380316 A, US5380274 A, US5378234 A, US5376084 A, US5368558 A, US5368557 A, US5362309 A, US5346502 A, US5344395 A, US5342292 A, US5341818 A, US5328004 A, US5326342 A, US5325860 A, US5324260 A, US5324255 A, US5318570 A, US5318014 A, US5312328 A, US5304131 A, US5304115 A, US5290229 A, US5287858 A, US5269793 A, US5269297 A, US5269291 A, US5267954 A, US5255669 A, US5248296 A, US5243997 A, US5242385 A, US5238004 A, US5234416 A, US5226421 A, US5221255 A, US5215614 A, US5195955 A, US5183470 A, US5180363 A, US5171216 A, US5163421 A, US5156143 A, US5127917 A, US5116350 A, US5114414 A, US5109859 A, US5100423 A, US5091205 A, US5076276 A, US5058570 A, US5053008 A, US5046503 A, US5026384 A, US5015227 A, US5000185 A, US4936845 A, US4936281 A, US4932863 A, US4931047 A, US4924863 A, US4923462 A, US4920954 A, US4886060 A, US4870953 A, US4865908 A, US4854325 A, US4838853 A, US4827911 A, US4811743 A, US4808153 A, US4750902 A, US4721117 A, US4700705 A, US4679558 A, US4665906 A, US4664112 A, US4585589 A, US4572184 A, US4565787 A, US4565589 A, US4545767 A, US4505787 A, US4505767 A, US4486680 A, US4425115 A, US4417578 A, US4368410 A, US4337090 A, US4136700 A, US4033331 A, US4016882 A, US3896811 A, US3839841 A, US3823717 A, US3719737 A, US3631848 A, US3612038 A, US3585062 A, US3565082 A, US3565062 A, US3433226 A, US2011130834 AA, US2008228111 AA, US2008221506 AA, US2007260172 AA, US2007037119 AA, US2006264809 AA, US2006264759 AA, US2006206039 AA, US2005228286 AA, US2005222557 AA, US2005215946 AA, US2004204670 AA, US2004167507 AA, US2004138570 AA, US2004049148 AA, US2003225332 AA,

US2003216732 AA, US2003199817 AA, US2003036705 AA, US2003009153 AA, US2002077643 AA, US06423026, US06296620, US05989208, US05916192, US05380274, US05267954, JPU03067608, JPS4920563, JP9503137, JP7509146 T2, JP7506284 T2, JP7500752 T2, JP7500752, JP6507081 T2, JP61272045, JP4920563, JP49020563 A2, JP3067608, JP2071510, JP2007116260, JP2006522644, JP2006086822, JP2005253874, JP2002186627, JP2001321388, JP2001104356, JP2000291543 A2, JP2000291543, JP1099547, JP10216140, JP07509146, JP07506284, JP07500752, JP06507081, GB1106957, EP1323481 A2, EP0820728, EP0541249, EP0443256, EP0394583, EP0379156, EP0376562, EP0316796, EP0316789 B1, EP0316789 A2, EP0005719, DE8910040, DE4042435, DE3821836 A1, DE2438868 A1, DE2438648 A1, DE2256127,

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Abstract:
Source: US2004039311A Ultrasound catheter devices and methods provide enhanced disruption of blood vessel obstructions. Generally, an ultrasound catheter includes an elongate flexible catheter body with one or more lumens. An ultrasound transmission member or wire extends longitudinally through the catheter body lumen and, in many embodiments, a guide wire tube also extends through the same lumen. A distal head is fixed to or otherwise mechanically coupled with the distal end of the ultrasound transmission member or wire and is positioned adjacent the distal end of the catheter body. Although the distal end of the catheter body overlaps the distal head, the distal head is not directly affixed to the distal end of the catheter body. Thus, the distal tip may move freely, relative to the distal end of the catheter body when ultrasonic energy is applied through the ultrasound transmission member. Such a freely floating distal head enhances the efficiency of an ultrasound catheter, enabling the catheter to ablate calcific occlusions and increasing the useful life of the ultrasound transmission member and catheter.

107) Family number: 43710509 (US2011015580A) © PatBase

Title: DEVICES, ASSEMBLIES, AND METHODS FOR CONTROLLING FLUID FLOW

Priority: EP20090717015 20090304 JP20130518441T 20110615 US20080033702P 20080304 US20080033702 20080304 US20090920807 20090304 JP20160092477 20160502 WO2009US36088 20090304 US20100831564 20100707 US20100920807 20100902 US20110163999 20110620 WO2011US40583 20110615 US20130914381 20130610 US20150863279 20150923

Family:

Publication number	Publication date	Application number	Application date
AU2011276708 AA	20120112	AU20110276708	20110615
AU2011276708 BB	20140828	AU20110276708	20110615
CA2717754 AA	20090911	CA20092717754	20090304
CA2804526 AA	20130104	CA20112804526	20110615
DE602009035370 D1	20160218	DE200960035370T	20090304
EP2259839 A2	20101215	EP20090717015	20090304
EP2259839 A4	20130626	EP20090717015	20090304
EP2259839 B1	20151223	EP20090717015	20090304
EP2590708 A2	20130515	EP20110804029	20110615
JP2013530014 T2	20130725	JP20130518441T	20110615
JP2016165504 A2	20160915	JP20160092477	20160502
JP5934201 B2	20160615	JP20130518441T	20110615
JP6138315 B2	20170512	JP20160092477	20160502
US2011015580 AA	20110120	US20090920807	20090304
US2011048540 AA	20110303	US20100831564	20100707
US2011266477 AA	20111103	US20110163999	20110620
US2013317455 AA	20131128	US20130914381	20130610
US2016144109 AA	20160526	US20150863279	20150923
US8251346 BB	20120828	US20100831564	20100707
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WO12005908 A2	20120112	WO2011US40583	20110615
WO12005908 A3	20120412	WO2011US40583	20110615

Probable Assignee: INFUSION INNOVATIONS

Assignee(s):(std)**:** INFUSION INNOVATIONS ; INFUSION INNOVATIONS INC ; STROUP DAVID K

Assignee(s): INFUSION INNOVATIONS INC LA JOLLA

Inventor(s):(std)**:** DAVID K STROUP ; STROUP DAVID K ; STROUP DAVID KARL

Inventor(s): STROUP DAVID K EL CAJON

Agent(s): ADAMS PLUCK; MACRAE AND CO; VIERING JENTSCHURA AND PARTNER MBB PATENT U RECHTSANWAELTE; VIERING JENTSCHURA AND PARTNER; VIERING JENTSCHURA AND PARTNER MBB PATENT U RECHTSANWAELTE; SHOBAYASHI MASAYUKI; PROCOPIO CORY HARGREAVES AND SAVITCH LLP; STEPHEN C; ENGLISH WILLIAM A; BEUERLE STEPHEN C 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 TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): A61M31/00 A61M39/02 A61M39/10 A61M39/12 A61M39/20 A61M39/22 A61M39/26 A61M5/00 A61M5/168 A61M5/178 A61M5/31 F15D1/00 F16K31/524 F16L29/00 F16L37/26 F16L37/28 (Advanced/Invention); A61M31/00 A61M39/00 A61M5/00 (Core/Invention)

CPC: A61M39/12 A61M2039/1033 A61M2039/263 A61M5/16813 Y10T137/0318 A61M39/26 A61M5/178 A61M39/20 A61M2039/1066 A61M2039/1038 A61M2205/6018 A61M5/16881 A61M39/10

European class: A61M39/10 A61M39/26 A61M5/168F1

US class: 137/1 137/1P 251/149.5 251/149.6 251/152 251/152P 251/251 251/251S 251/252 251/262 251/262S 604/207 604/207P 604/246 604/248 604/249 604/256 604/537 604/537S

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Forward Citations: WO17074420, WO17008012, WO15065958, WO13148655, WO12162259, WO12162259, WO12151222, WO12005908, WO12005908, USD786427, US9636494, US9610223, US9440060, US9381137, US9370466, US9364396, US9358182, US9352140, US9351906, US9278206, US9238129, US9220661, US9212772, US9205243, US9205026, US9205025, US9198832, US9192753, US9192449, US9186707, US9168366, US9126029, US9126028, US9114242, US9108034, US9107809, US9079686, US8968271, US8911421, US8894627, US8882739, US8870850, US8834444, US8814849, US8801689, US8758306, US8721612, US8690854, US8603047, US8469940, US8460252, US8414556, US8414555, US8414554, US8414542, US8251346, US2016144112, US2016106967, US2015377398, US2014364814, US2014265318, US2013317455, US2011266477, US2011112501, US2011015580, JP6138315, JP5992919, JP5934201, JP2016165504, JP2015530191, JP2014505518, JP2013530014, EP2857062, EP2814560, CN104755131, AU2011276708,

Abstract:
Source: US2011015580A Connector assemblies are provided for controlling flow in a fluid line that include an outer shell, an inner housing, and a tubular member. The inner housing is disposed within the outer shell and includes a boss disposed adjacent a first end of the outer shell. The inner housing is movable axially within the outer shell between first and second positions when a device is connected to the first end. The tubular member is carried by the inner housing and includes a fluid passage extending between a second end of the outer shell. The tubular member moves axially as the inner housing moves between the first and second positions, and cam features on the outer shell and the tubular member cause the tubular member to rotate as the inner housing moves between first and second positions, thereby opening a fluid path between the fluid passage and the first end.

0) US2002032391A – GUIDEWIRE FOR PRECISION CATHETER POSITIONING

108) Family number: 28851279 (US2002032391A) © PatBase

Title: GUIDEWIRE FOR PRECISION CATHETER POSITIONING

Priority:
US19960966001 19961107 US19970966001 19971107 US19980099079P 19980904
US19980081614P 19980413 US19980081631P 19980413 US19980103447P 19981007
US19990389772 19990903 US19990289850 19990412 US20010930540 20010814
US19990289849 19990412 US20020057708 20020124 WO1998US23832 19981106
US19990417228 19991013 US19990290510 19990412 WO2000US28529 20001013
WO1999US20399 19990903 WO1999US07977 19990412

Family:

Publication number	Publication date	Application number	Application date
AU199934914 A1	19991101	AU19990034914	19990412
AU200114328 A5	20010423	AU20010014328	20001013
CA2309428 AA	20000502	CA19982309428	19981106
CA2327255 AA	20001005	CA19992327255	19990412
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US2002032391 AA	20020314	US20010930540	20010814
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WO9952421 A1	19991021	WO1999US07977	19990412

Probable Assignee: MCFANN TIMOTHY B

Assignee(s):(std)**:** MCFANN TIMOTHY B ; PROLIFIX MEDICAL INC ; WILLIAMS RONALD G

Assignee(s): MUSKIVITCH JOHN C ; PASSAFARO JAMES D ; ROGERS LARRY ; PATTERSON GREG R ; KUPIECKI DAVID J ; MAH KATHY M

Inventor(s):(std)**:** DAVID J KUPIECKI ; HUYNH JOAN ; JAMES D PASSAFARO ; JOHN C MUSKIVITCH ; KATHY M MAH ; KUPIECKI DAVID J ; MAH KATHY M ; MC FANN TIMOTHY B ; MCFANN TIMOTHY B ; MUSKIVITCH JOHN C ; PASSAFARO JAMES D ; PASSFARO JAMES D ; PATTERSON GREG R ; PERKINS ROGER W ; ROGERS LARRY ; ROGERS LARRY B ; RONALD G WILLIAMS ; TIMOTHY B MCFANN ; WILLIAMS RONALD G

Agent(s): FETHERSTONHAUGH AND CO

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN 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 NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

International class (IPC 8–9):
A61B17/00 A61B17/22 A61B17/32 A61B19/00 A61B5/00 A61F2/84 A61M25/00 A61M25/01 A61M25/09 A61M29/00 (Advanced/Invention);
A61B17/00 A61B17/22 A61B19/00 A61M25/01 A61M25/09 (Advanced/Non–invention);
A61B17/22 A61B17/32 A61F2/82 A61M25/01 A61M25/09 A61M29/00 (Core/Invention);

A61B17/00 A61B19/00 (Core/Non-invention)

International class (IPC 1-7): A61B17/22 A61B17/32 A61B5/00 A61M25/00 A61M25/01 A61M25/09 A61M29/02

CPC: A61M29/02 A61M2025/09108 A61B2017/320766 A61M2025/09141 A61M2025/09175 A61M2205/0266 A61B2017/00685 A61B50/30 A61B2050/314 A61B2090/064 A61B17/221 A61B17/320758 A61B2017/00867 A61B2017/22042 A61B2017/2217 A61M25/09 A61M2025/09083

European class: A61B17/221 A61B17/3207R A61M25/01B A61M25/09 A61M29/00 A61M29/02 K61B17/00S12 K61B17/221S K61B17/22G3 K61B17/3207R2 K61B19/46H K61M205/02S K61M25/09 K61M25/09E3 K61M25/09G K61M25/09M1 K61M25/09T

US class: 128/898 600/434 600/585 600/585P 600/587 600/587S 606/159 606/159S

Classification Explorer

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Forward Citations: WO16187037, WO16093252, WO16061213, WO16001932, WO15015203, WO14140817, WO14138513, WO14106847, WO14093068, WO12158998, WO10049121, WO10049121, WO10030728, WO10030728, WO09097008, WO08022262, WO08005891, WO08005891, WO08005888, WO08005888, WO07026555, WO05117687, WO03086209, WO03086209, WO03041784, WO03006086, WO03006086, WO03005896, WO03005895, WO02083011, WO0126725, WO0101869, USD777926, USD777925, USD754357, USD724745, USD699359, USD512147, USD450843, US9668811, US9668767, US9649156, US9649048, US9642646, US9636031, US9616201, US9615850, US9603661, US9597110, US9592386, US9592075, US9585717, US9579157, US9579030, US9572557, US9572509, US9572492, US9557156, US9554848, US9554716, US9549685, US9532844, US9532831, US9532799, US9532724, US9526573, US9526519, US9526440, US9522254, US9521961, US9510901, US9504822, US9504821, US9498600, US9498247, US9492228, US9492227, US9492193, US9492192, US9492097, US9486355, US9486273, US9486237, US9480525, US9474543, US9463062, US9456843, US9456766, US9452017, US9452016, US9451978, US9445862, US9445834, US9445734, US9439713, US9433760, US9420955, US9415188, US9408661, US9402684, US9381104, US9381062, US9381032, US9364284, US9358365, US9351648, US9345511, US9345510, US9345422, US9345406, US9345398, US9339206, US9333007, US9327100, US9326789, US9326751, US9314263, US9308016, US9297845, US9289255, US9282992, US9277955, US9265969, US9265443, US9259264, US9254143, US9241733, US9233015, US9220561, US9220558, US9220530, US9211403, US9211107, US9204983, US9204964, US9198685, US9198679, US9198666, US9198592, US9192790, US9192468, US9192435, US9192406, US9186211, US9186210, US9186209, US9179974, US9174050, US9173696, US9162046, US9162037, US9155647, US9155589, US9138292, US9125667, US9125666, US9125578, US9125562, US9119662, US9119634, US9119633, US9119632, US9119600, US9113955, US9107691, US9095371, US9095343, US9089350, US9084609, US9079000, US9072902, US9072511, US9060761, US9050106, US9050049, US9037259, US9028512, US9028485, US9028472, US9023070, US9023034, US9017352, US9017321, US9017320, US9017294, US9011423, US8998937, US8992717, US8986248, US8986241, US8986224, US8974451, US8971994, US8961546, US8951251, US8940002, US8939970, US8932287, US8920450, US8920448, US8920414, US8920411, US8920402, US8911459, US8906011, US8894588, US8888801, US8880185, US8870755, US8864676, US8858455, US8849382, US8845621, US8845552, US8814890, US8808186, US8801745, US8801693, US8801691, US8795306, US8784440, US8784336, US8781555, US8777841, US8774907, US8764779, US8747332, US8747300, US8728035, US8727996, US8726909, US8708932, US8696695, US8696545,

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Abstract:
Source: US2002032391A The present invention comprises a guidewire having a compressible guide section capable of deflecting a catheter to abut a lumen wall. The compressible guide section exerts an outward radial force while it is at least partially compressed within a lumen. The guide section permits a physician to precisely locate a catheter within a body lumen and adjust a catheter tip orientation to be directed to a particular side of a body lumen. A method is disclosed for properly matching a guidewire and a catheter to operate together in the present invention, along with a force measuring instrument to assist in measuring a catheter's resistance force value. This method and systems of the present invention involve determining the exact force relationship between the compressible guide section and the resistance of the catheter in vitro.

109) Family number: 48394834 (US2011054503A) © PatBase

Title: SYSTEMS, METHODS AND DEVICES FOR ABLATION, CROSSING, AND CUTTING OF OCCLUSIONS

Priority: EP20100814335 20100830 US20090239321P 20090902 US20120648144 20121009 WO2009US55950 20090903 US20090570677 20090930 US20150682782 20150409 WO2010US47170 20100830

Family:

Publication number	Publication date	Application number	Application date
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AU2010289659 BB	20150730	AU20100289659	20100830
CA2772024 AA	20120223	CA20102772024	20100830
CN102762159 A	20121031	CN201080049452	20100830
CN102762159 B	20150617	CN201080049452	20100830
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EP2473122 A4	20140115	EP20100814335	20100830
EP2473122 B1	20160810	EP20100814335	20100830
JP2013503701 A2	20130204	JP20120527953	20100830
JP2013503701 T2	20130204	JP20120527953T	20100830
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US2011054503 AA	20110303	US20090570677	20090930
US2013035750 AA	20130207	US20120648144	20121009
US2015209063 AA	20150730	US20150682782	20150409
US9204893 BB	20151208	US20090570677	20090930
WO11028203 A1	20110310	WO2009US55950	20090903
WO11028665 A2	20110310	WO2010US47170	20100830
WO11028665 A3	20110929	WO2010US47170	20100830

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Inventor(s):(std)**:** ISA RIZK ; JOHN FULKERSON ; REFLOW MEDICAL INC ; RIZK ISA ; FULKERSON JOHN

Inventor(s): FULKERSON JOHN RANCHO SANTA MARGARITA ; RIZK ISA SAN DIEGO

Agent(s): FB RICE; OYEN WIGGS GREEN AND MUTALA LLP; DONALD JENNY SUSAN; INO SARI; KURASAWA ICHIRO; MATSUSHITA MITSURU; DESHIMARU TAKESHI; KUMAKURA YOSHIO; PERKINS COIE LLP; BENTLEY MARK; GLUCK PETER 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 TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): A61B17/00 A61B17/22 A61B17/3205 A61B17/3207 A61B17/34 A61F2/84 A61M25/06 A61M25/09 A61M25/10 A61M29/00 (Advanced/Invention); A61B17/22 A61F2/95 A61M25/00 A61M29/02 (Advanced/Non–invention)

CPC: A61B17/3207 A61B2017/22094 A61M2025/0042 A61F2/95 A61M25/0021 A61M29/02

European class: A61B17/3207 K61B17/22T K61M25/00R3 K61M29/02

US class: 1/1 606/159 606/159P 606/185 606/185S 623/1.11

Classification Explorer

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Forward Citations: US9622762, US9456842, US9204893, US2014018833, CN104887293, CN103300938, CN103300938,

Abstract:
Source: US2011054503A Ablation, crossing, and cutting systems, devices and associated methods, including a crossing device, comprising, in combination: a spring−enhanced handle and body configured to controllably extend and retract a blade within a microcatheter for addressing an occlusion within a vessel of a patient to provide improved access for supplemental treatment and reperfusion.

0) US2001029389A – BONE MARROW SHIELDING APPARATUS AND METHOD OF B...

110) Family number: 28098573 (US2001029389A) © PatBase

Title: Bone marrow shielding apparatus and method of bone marrow–shielded cancer chemotherapy

Priority: US19980073004P 19980129 US19980074002P 19980209 US19980075128P 19980214 US20010820523 20010328 US19990239511 19990128 US19980080817P 19980406 WO1999US01940 19990128

Family:

Publication number	Publication date	Application number	Application date
AU199924829 A1	19990816	AU19990024829	19990128
CA2318603 AA	20000718	CA19992318603	19990128
EP1051117 A1	20001115	EP19990904428	19990128
US2001029389 AA	20011011	US20010820523	20010328
US6210423 BA	20010403	US19990239511	19990128
WO9938442 A1	19990805	WO1999US01940	19990128

Probable Assignee: KIM SINIL

Assignee(s):(std)**:** KIM SINIL ; SINIL KIM

Inventor(s):(std)**:** KIM SINIL

Inventor(s): SINIL KIM

Agent(s): GOWLING LAFLEUR HENDERSON LLP

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW

International class (IPC 8–9): A61B17/132 A61B17/135 A61F5/34 (Advanced/Invention)

International class (IPC 1–7): A61B17/00 A61B17/132 A61B17/135 A61F5/34 A61M29/00

CPC: A61B17/1325 A61B17/135 A61F5/34

European class: A61B17/132G2 A61B17/135 A61F5/34

US class: 128/898 606/203 606/203P

Classification Explorer

Cited documents: WO9011744 A1, USB14469099, US5584853 A, US5514155 A, US5496358 A, US5486194 A, US5454831 A, US5411518 A, US5288286 A, US5263473 A, US5234459 A, US4957105 A, US4829994 A, US4635635 A, US4469099 A, US4372297 A, US4329997 A, US4240415 A, US4228792 A, US4210147 A, US3454010 A, US3032033 A, US2811970 A, DE8610887 U, DE821824 A,

Forward Citations: WO05035026, USD709197, USD709048, USD708338, US9610213, US9393025, US9205019, US9119761, US9119759, US8821496, US8790266, US8764789, US8753283, US8480842, US7717855, US2014296757, US2012232578, US2012130419, US2011190807, US2010305607, US2010292619, US2010268267, US2010160799, US2009099518, US2008243232, US2008139949, US2008082175, EP1996086, EP1996086,

Abstract:
Source: US2001029389A The invention provides a variety of bone marrow–shielding tourniquets and methods for using them to perform bone marrow–shielded chemotherapy with or without general and without the need to remove a patient's bone marrow for protection during the procedure. In the invention method, pressure is applied to at least one body part of the patient that contains myelopoietic bone marrow to temporarily occlude arterial flow to the bone marrow while blood circulation through the remainder of the body is maintained. Then an effective amount of at least one myelosuppresive chemotherapeutic agent is administered to the blood circulation in the remainder of the patient while the arterial flow through the at least one body part is occluded and so that the myelosuppresive effect of the agent is substantially dissipated within the maximum safe period for the occlusion of

the arterial flow, or about three hours. The pressure is removed to restore blood circulation to the bone marrow when the effect has substantially dissipated and within the maximum safe period. By the invention method, a tumor located in the remainder of the body is treated by the at least one chemotherapeutic agent without destruction of a substantial portion of the bone marrow in the occluded body part. The bone marrow shielding tourniquets for use in the invention chemotherapeutic method are designed to substantially cover at least the shoulder or hip area of a human so as to occlude arterial flow therein and include inflatable bladders that apply the requisite pressure when the tourniquet is applied to the wearer. The shoulder tourniquet optionally is designed to occlude arterial flow into the proximal scapula as well as into the shoulder area. Bilateral tourniquets are also provided for simultaneous occlusion of bilateral shoulders and, optionally, bilateral scapulae.

0) US2005049667A – SELF–ALIGNING STENT GRAFT DELIVERY SYSTEM, KIT,...

111) Family number: 43811633 (US2005049667A)

© PatBase

Title: SELF–ALIGNING STENT GRAFT DELIVERY SYSTEM, KIT, AND METHOD

Priority:

AU20040270186	20040902	AU20100224344	20100920	AU20120200481	20120127
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Family:

Publication number	Publication date	Application number	Application date
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AU2004270186 AA	20050317	AU20040270186	20040902
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Forward Citations: WO16181249, WO16172629, WO16125137, WO16049037, WO15167997, WO14188412, WO14188412, WO14172501, WO14172501, WO14158958, WO14149022, WO14130235, WO14093150, WO13162685, WO13154749, WO13154677, WO13118362, WO13118352, WO13074990, WO13074266, WO12128846, WO12067714, WO12051532, WO12051532, WO12026965, WO12026965, WO12006602, WO12006602, WO11156533, WO11156533, WO11139747, WO11133271, WO11126690, WO11056638, WO10129685, WO10120553, WO10120553, WO10105195, WO10042458, WO10042210, WO10024869, WO10014834, WO10008571, WO10005524, WO10005524, WO09140545, WO09140545, WO09134801, WO09128939, WO09124124, WO09102440, WO09023221, WO08102589, WO07092276, WO07082189, WO06135551, USD741992, US9655756, US9655712, US9649211, US9629644, US9615924, US9610181, US9603731, US9603730, US9603696, US9603600, US9602786, US9597485, US9597204, US9597182, US9592123, US9592112, US9585782, US9585743, US9585681, US9584777, US9566178, US9561124, US9561122, US9554929, US9549835, US9549818, US9545322, US9545309, US9545308, US9526642, US9526641, US9526638, US9504812, US9498364, US9498363, US9498239, US9486348, US9486341, US9480561, US9468517, US9456914, US9456910, US9452070, US9445929, US9440054, US9439795, US9439751, US9433766, US9433520, US9427339, US9427307, US9408952, US9408735, US9408734, US9408607, US9393021, US9387314, US9387101, US9387077, US9375337, US9375336, US9375327, US9375308, US9370422, US9364327, US9364314, US9351860, US9345603, US9345595, US9339385, US9339384, US9339197, US9333104, US9332993, US9332992, US9320632, US9320631, US9320590, US9314360, US9308349, US9308109, US9301864, US9301831, US9295568, US9254209, US9237960, US9233015, US9233014, US9226814, US9226813, US9220906, US9220620, US9220619, US9220617, US9220616, US9220613, US9204958, US9198786, US9198781, US9192500, US9180030, US9173756, US9173755, US9168164, US9168162,

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Abstract:
Source: US2005049667A A delivery system and kit for endovascularly delivering a prosthesis along a guidewire to an curved implantation site includes a control handle having a handle body with a prosthesis movement control assembly movably disposed thereto. A proximal end of a catheter is connected to the control handle. A prosthesis delivery assembly is movably disposed in the catheter. The delivery assembly has a guidewire lumen slidably receiving therein the guidewire and having a curved distal end orienting the delivery assembly when passing through a curved vessel portion. A method for automatic endovascular alignment of the prosthesis includes loading it in the distal delivery assembly, positioning the guidewire into the curved implantation site, and threading the guidewire lumen over the guidewire with the delivery assembly and into the implantation site to at least approximately align the curved distal portion to a curve of the curved implantation site and, thereby, orient the prosthesis.

0) US2004024347A – CATHETER WITH MULTIPLE ULTRASOUND RADIATING MEM...

112) Family number: 29028300 (US2004024347A) © PatBase

Title: CATHETER WITH MULTIPLE ULTRASOUND RADIATING MEMBERS

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Family:

Publication number	Publication date	Application number	Application date
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Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 NE NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): A61B17/20 A61B17/22 A61B18/00 A61B8/14 A61H1/00 A61K31/7048 A61K41/00 A61M25/00 A61M31/00 A61M37/00 A61N1/30 A61N7/00 B23P17/04 B32B37/00 H01R43/00 H05K13/00 (Advanced/Invention);
A61B17/00 (Advanced/Non–invention);
A61K31/7042 (Core/Invention);
A61B17/00 (Core/Non–invention);
A61M (Subclass/Invention)

International class (IPC 1–7): A61B17/20 A61B17/22 A61B8/14 A61M25/00 A61M37/00 A61N7/00

CPC: A61M2025/0034 A61M2025/0039 Y10T29/49007 Y10T29/49117 Y10T29/49169 Y10T29/49826 A61B17/22 A61B2017/00084 A61B2017/22021 A61B2017/22082 B29C63/42 A61B17/2202 A61B2017/22084 A61B2017/22088 A61M25/0029 A61M25/0032 A61N2007/0078 A61M37/0092 A61N7/00

European class: A61B17/22 A61B17/22B2D A61M25/00R1M4 A61M25/00R1M8 A61M37/00U A61N7/00 B29C63/42 K61B17/00C1T K61B17/22B2D K61B17/22B2D2 K61B17/22S K61B17/22S2 K61B17/22S7 K61M25/00R1M10 K61M25/00R1M18 K61N7/00N

US class: 1/1 156/86 156/86P 29/428 29/428S 29/595 29/825 29/854 600/439 600/459 600/459P 600/459S 600/463 600/466 600/466S 600/467 600/467S 601/2 601/2P 604/19 604/19S 604/22 604/22P 604/510 604/510P

Classification Explorer

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Abstract:
Source: US2004024347A A catheter for delivering ultrasonic energy and therapeutic compounds to a treatment site within a patient's vasculature comprises a tubular body. The tubular body has a proximal region and a distal region opposite the proximal region. The catheter further comprises a plurality of fluid delivery lumens formed into the tubular body. The catheter further comprises an inner core configured for insertion into the tubular body. The inner core comprises an elongate electrical conductor having a plurality of flattened regions, each flattened region having a first flat side and a second flat side opposite the first flat side. The inner core further comprises a plurality of ultrasound radiating members mounted in pairs to the flattened regions of the elongate electrical conductor. A first ultrasound radiating member is mounted to the first flat side of the elongate electrical conductor, and a second ultrasound radiating member is mounted to the second flat side of the elongate electrical conductor. The catheter further comprises control electronics configured to apply a driving signal to at least two, but fewer than all, of the ultrasound radiating members.

113) Family number: 30001470 (US2002127676A) © PatBase

Title: Cell–permeable peptide inhibitors of the JNK signal transduction pathway

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Probable Assignee: XIGEN SA

Assignee(s):(std): BONNY CHRISTOPHE ; UNIV LAUSANNE ; RUSSELL D WADE ; WADE RUSSELL D ; XIGEN S A ; UNIVERSITY OF LAUSANNE ; XIGEN INFLAMMATION LTD ; XIGEN SA

Assignee(s): LAUSANNE UNIV OF ; UNIVERSITE DE LAUSANNE ; OF LAUSANNE UNIV ; RUSSELL D ; UNIVERSITY OF LAU NNE RUE DE BUGNON SA ; DE LAUSANNE UNIV ; GENERAL UNIV ; GENERAL UNIV HOSPITAL OF LAUSANNE ; LAU NNE UNIVERSITY SA ; LAUSANNE UNIV

Inventor(s):(std): WADE RUSSELL D ; RUSSELL D WADE ; CHRISTOPHE BONNY ; BONNY CHRISTOPHE

Inventor(s): D WADE RUSSELL ; D

Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD; SMART AND BIGGAR; RIDOUT AND MAYBEE LLP; GRAF VON STOSCH PATENTANWALTSGESELLSCHAFT MBH; GRAF VON STOSCH ANDREAS ET AL; GRAF VON STOSCH ANDREAS; AZNAREZ PABLO; MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO PC; MORGAN LEWIS AND BOCKIUS LLP; MICHAEL I

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 NE NI NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): A61K31/70 A61K31/7088 A61K38/00 A61K38/08 A61K38/10 A61K38/16 A61K38/17 A61K38/21 A61K38/46 A61K38/55 A61K39/39 A61K39/395 A61K48/00 A61P1/00 A61P1/18 A61P11/16 A61P13/12 A61P15/08 A61P17/00 A61P17/02 A61P17/06 A61P17/14 A61P17/16 A61P19/02 A61P21/00 A61P21/02 A61P25/00 A61P25/08 A61P25/14 A61P25/16 A61P25/18 A61P25/28 A61P27/00 A61P27/10 A61P27/16 A61P29/00 A61P3/00 A61P3/10 A61P31/18 A61P35/00 A61P35/02 A61P37/00 A61P37/02 A61P37/04 A61P37/06 A61P37/08 A61P39/00 A61P39/06 A61P41/00 A61P43/00 A61P5/48 A61P7/00 A61P9/00 A61P9/10 C07H21/04 C07K14/00 C07K14/16 C07K14/47 C07K16/00 C07K16/10 C07K16/18 C07K16/40 C07K19/00 C07K7/04 C07K7/06 C07K7/08 C12N1/15 C12N1/19 C12N1/21 C12N15/00 C12N15/09 C12N15/11 C12N15/12 C12N15/62 C12N15/63 C12N5/02 C12N5/06 C12N5/10 C12N9/00 C12N9/12 C12N9/99 C12P21/02 C12P21/06 H04M1/00 H04M1/05 (Advanced/Invention); A61K31/7088 A61K38/00 A61K39/395 A61K48/00 A61P3/00 A61P35/00 A61P37/00 A61P39/00 A61P43/00 A61P9/00 C07K14/155 C07K16/18 C07K19/00 C07K7/04 C12N1/15 C12N1/19 C12N1/21 C12N15/09 C12N5/10 C12N9/99 C12P21/02 (Advanced/Non–invention); A61K31/70 A61K38/00 A61K38/17 A61K38/43 A61K38/55 A61K39/39 A61P1/00 A61P21/00 A61P25/00 A61P27/00 A61P31/00 A61P35/00 A61P37/00 A61P43/00 A61P9/00 C07K14/43 C07K14/435 H04M1/00 H04M1/04 (Core/Invention); A61K38/00 C07K14/435 C07K7/00 C12N9/99 (Core/Non–invention); A61K A61P C07K C12N (Subclass/Invention)

International class (IPC 1–7): A61K31/7088 A61K38/00 A61K38/10 A61K38/17 A61K38/48 A61K38/55 A61K39/395 A61K48/00 A61P1/18 A61P15/08 A61P17/02 A61P17/16 A61P21/00 A61P25/00 A61P25/14 A61P25/16 A61P25/18 A61P25/28 A61P27/16 A61P3/00 A61P3/10 A61P31/18 A61P35/00 A61P37/00 A61P37/08 A61P39/00 A61P39/06 A61P43/00 A61P5/48 A61P9/00 A61P9/10 C07H21/04 C07K14/00 C07K14/16 C07K14/47 C07K16/10 C07K16/18 C07K16/40 C07K16/44 C07K19/00 C07K2/00 C07K4/00 C07K7/06 C07K7/08 C12N1/15 C12N1/19 C12N1/21 C12N15/09 C12N15/11 C12N15/12 C12N15/62 C12N15/63 C12N5/06 C12N5/10 C12N9/99 C12P21/02 H04M1/00

CPC: H04M1/05 C07K14/4703 C07K14/4743 A61K38/00 C07K2319/00 C07K2319/10 C07K14/00 A61K38/1709

European class: A61K38/17A2 C07K14/47A1A H04M1/05 K61K38/00 M07K207/00 M07K319/00 M07K319/10

US class: 379/430 379/449 424/139.1 424/139.100P 424/94.63 424/94.630P 435/184 435/184P 435/254.2 435/254.200S 435/320.1 435/320.100S 435/325 435/325S 435/348 435/348S 435/375 435/375S 435/69.1 435/69.100S 435/69.2 435/69.200S 455/575.2 514/1.1 514/1.100P 514/1.2 514/1.200S 514/12 514/12.2 514/12.200S 514/13 514/14 514/15 514/15.1 514/15.100P 514/15.100S 514/17.2 514/17.200S 514/17.7 514/17.8 514/17.800S 514/17.9 514/17.900S 514/18.2 514/18.200S 514/18.9 514/18.900S 514/19.3 514/19.300S 514/2 514/2.4 514/2.400S 514/20.7 514/21.3 514/21.300P 514/21.300S 514/21.4 514/21.400S 514/3.8 514/3.800S 514/44.00RS 514/44R 514/6.7 514/7.5 514/7.500S 514/8.3 530/300 530/324 530/324S 530/325 530/326 530/326S 530/328 530/332 530/350 530/350S 530/387.3 530/387.300S 530/387.9 530/387.900S 530/388.26 530/388.260S 536/23.1 536/23.100S 536/23.2 536/23.200S

Classification Explorer

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Forward Citations: WO17075013, WO16055160, WO15197098, WO15197097, WO14206563, WO14206427, WO14206426, WO13091896, WO13091670, WO13079213, WO10151638, WO10113753, WO09144038, WO09144037, WO09143865, WO09143864, WO08154700, WO08015841, WO07035553, WO07035553, WO07031280, WO07031280, WO07031098, WO07011762, WO07011762, WO06104983, WO06056370, WO06050930, WO06050930, WO06001453, WO03103698, WO03057725, WO03057725, USD717538, US9624267, US9617337, US9610330, US9603796, US9511020, US9493562, US9486405, US9427472, US9393302, US9388242, US9333171, US9314416, US9290538, US9255124, US9233068, US9211248, US9205048, US9180159, US9180081, US9173864, US9150618, US9132087, US9067984, US9066855, US9060588, US9040246, US9006185, US8981052, US8974774, US8962548, US8946381, US8937163, US8900579, US8861769, US8852626, US8846770, US8828980, US8822409, US8818734, US8784870, US8748395, US8741289, US8680083, US8680082, US8658640, US8658626, US8648119, US8592414, US8580257, US8575122, US8569447, US8568740, US8546363, US8540988, US8518414, US8501812, US8496957, US8431126, US8415313, US8404249, US8399018, US8398997, US8349353, US8318898, US8318817, US8278413, US8236924, US8216582, US8183339, US8168181, US8114581, US8112060, US8092788, US8080517, US8063012, US8030297, US8022179, US7989160, US7943574, US7932226, US7897572, US7838294, US7807780, US7803749, US7635681, US7613294, US7539525, US7508932, US7457643, US2015189052, US2014185855, US2012101046, US2012058137, US2011207677, US2011183888, US2011140747, US2010331061, US2010273864, US2010261499, US2010256041, US2010224744, US2010166835, US2010104575, US2010093639, US2010086537, US2010036000, US2010022661, US2010021502, US2010021416, US2010016450, US2010016218, US2010015263, US2010015228, US2010009952, US2010004225, US2009325938, US2009324552, US2009306225, US2009305968, US2009305309, US2009298763, US2009297533, US2009247464, US2009226387, US2009176761, US2009163412, US2009087457, US2009069234, US2009054051, US2008287351, US2008242366, US2008233152, US2008226551, US2007116724, US2007060514, US2007003517, US2006281504, US2006276425, US2006199625, US2006135223, US2005284901, US2005239705, US2005196414, US2004220100, US2004082509, US2003229034, KR101305533, JP5904277, JP5727393, JP2017008026, JP2015232008, JP2015120694, JP2015034171, JP2014236729, JP2014224126, JP2014111646, JP2014064580, JP2014001211, JP2013175694, JP2012513428, JP2012095657, JP2011524861, JP2011521919, JP2010516707, JP2010254672, JP2009509916, JP2009507502, JP2008521759,

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Abstract:
Source: US2002127676A The invention provides cell−permeable peptides that bind to JNK proteins and inhibit JNK−mediated effects in JNK−expressing cells.

114) Family number: 30249923 (US2004006330A) © PatBase

Title: MEDICAL VALVE WITH POSITIVE FLOW CHARACTERISTICS

Priority:

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US20130898182	20130520	WO2001US21904	20010711	US20140524524	20141027
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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: ICU MEDICAL INC

Assignee(s):[(std)]**:** AJ SI JU MEDIKAL INK ; FANGROW JR THOMAS F ; FANGROW THOMAS F JR ; ICU MEDICAL INC

Assignee(s): FANGROW THOMAS F

Inventor(s):[(std)]**:** FANGROW T F JR ; FANGROW THOMAS F ; FEHNGROU TOMAS F MLADSHIJ ; FANGROW THOMAS R JR ; FANGROW THOMAS FJR ; FANGROW THOMAS F JR ; NATAUPSKY STEVEN J ; FANGROW T F ; FANGROW JR THOMAS F ; FANGROW F

Inventor(s): JR FANGROW THOMAS F ; JR ; FANGROW THOMAS ; THOMAS F FANGROW JR ; THE DESIGNATION OF THE INVENTOR HAS NOT YET... ; TF FANGROW ; T F FANGROW JR ; T F FANGROW ; JR THOMAS F ; TF FANGROW JR ; FANGROW

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; FETHERSTONHAUGH AND CO; GOWLING LAFLEUR HENDERSON LLP; VOSSIUS AND PARTNER; KNOBBE MARTENS OLSON AND BEAR LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN 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 NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

International class (IPC 8–9): A61M25/14 A61M25/16 A61M25/18 A61M31/00 A61M39/00 A61M39/02 A61M39/04 A61M39/06 A61M39/10 A61M39/22 A61M39/26 A61M5/00 A61M5/168 A61M5/178 B29C45/14 B29C70/76 B29C70/84 (Advanced/Invention);
A61M39/00 A61M39/26 (Advanced/Non–invention);
A61M25/16 A61M31/00 A61M39/00 A61M39/02 A61M5/00 A61M5/168 B29C45/14 B29C70/00 (Core/Invention);
A61M (Subclass/Invention)

International class (IPC 1–7): A61M A61M25/16 A61M31/00 A61M39/00 A61M39/02 A61M39/04 A61M39/26 A61M5/168 A61M5/178

CPC: A61M39/02 A61M39/045 A61M39/26 A61M2039/263 A61M39/06 A61M39/0247 A61M2039/062 A61M2039/0205 A61M2039/0258 A61M2039/027 A61M39/10

European class: A61M39/02 A61M39/04B A61M39/26 K61M39/26D

US class: 1/1 251/149.1 264/25 264/250 264/252 264/255 264/263 264/275 285/283 604/167.01 604/167.03 604/167.04 604/167.06 604/247 604/256 604/533 604/533S 604/537 604/537P 604/539 604/905

Classification Explorer

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Abstract:
Source: US2004006330A A valve for selectively permitting a fluid flow between first and second medical implements is disclosed. The valve has a housing with an interface suitable for receiving a connector portion of a first medical device such as a catheter, and a seal made of a flexible material. The seal has a first end in fluid communication with the interface, a second end suitable for receiving the second medical device, and at least one slit in fluid communication with the first end and the second end. The slit defines a restricted fluid flow path and a relatively small interior volume when in an undisturbed state, defines an expanded fluid flow path and a larger

interior volume upon the introduction of the second medical instrument into the slit, and retracts to define a restricted flow path and a small interior volume upon the withdrawal of the second medical device from the seal. The slit is constructed such that its upstream end initially is sealed as the second medical device is withdrawn. A fluid occupying the small interior volume of the slit is forced toward the downstream end of the slit.

0) US2008003142A – MICROFLUIDIC DEVICES

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Title: MICROFLUIDIC DEVICES

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International class (IPC 8–9): B01D57/00 B01F13/00 B01F3/08 B01F5/06 B01J19/00 B01J2/02 B01L3/00 B01L3/02 B03C5/00 B03C5/02 B29C33/38 B81B1/00 B81C1/00 C12M1/00 C12M1/34 C12N15/09 C12N15/10 C12N9/00 C12P19/34 C12Q1/00 C12Q1/25 C12Q1/68 C40B50/08 G01N1/10 G01N1/28 G01N1/38 G01N11/00 G01N15/14 G01N21/05 G01N21/64 G01N27/26

G01N27/327 G01N33/00 G01N33/50 G01N35/08 G01N37/00 (Advanced/Invention); B01L7/00 B01L9/00 G01N1/10 G01N21/03 G01N35/00 (Advanced/Non-invention); B01D57/00 B01F13/00 B01F3/08 B01J19/00 B01L3/00 B29C33/38 B81B1/00 B81C1/00 C12M1/00 C12N15/09 C12N9/00 C12P19/00 C12Q1/00 C12Q1/68 C40B50/08 G01N1/28 G01N11/00 G01N15/14 G01N21/64 G01N27/26 G01N33/00 G01N33/50 G01N35/08 G01N37/00 (Core/Invention)

CPC: G01N21/6486 G01N27/3275 C12N15/1068 C12Q1/6837 C12Q1/6855 C12Q1/6869 G01N21/6428 G01N21/6445 G01N2021/6439 G01N2021/6482 C12Q1/6827 G01N1/38 G01N35/085 C12Q2563/159 C12Q2565/629 C12Q2537/143 C12Q2531/113 C12Q2535/131 G01N21/05 G01N21/64 G01N2021/0346 G01N2201/024 C12N15/1086 C12Q2525/191 C12Q2535/101 C12Q2563/149 Y10T137/87571 Y10T137/87619 Y10T137/87652 C12Q1/6816 C12Q1/686 B01J19/0093 B01J2219/00783 B01J2219/00788 B01J2219/00828 B01J2219/00831 B01J2219/00833 B01J2219/00837 B01J2219/00853 B01J2219/0086 B01J2219/00869 B01J2219/00889 B01J2219/00903 B01J2219/0097 B01J2219/00988 B01L3/502715 B01L3/502746 B01L3/502784 B01L3/565 B01L7/525 B01L9/527 B01L2200/0636 B01L2200/0647 B01L2200/0673 B01L2200/10 B01L2300/0816 B01L2300/0861 B01L2300/165 B01L2400/0424 B01L2400/086 B03C5/005 B03C5/026 B03C2201/26 C12N15/1075 C12Q1/00 C12Q1/6806 C12Q1/6844 C12Q1/6874 C12Q2565/628 G01N15/147 G01N35/08 G01N2035/00158 G01N2035/00237 G01N2035/00326 B01L2200/028 B01F2215/0037 B01F3/0807 B01F13/0062 B01L2200/027 B01L2300/0636 B01L2300/0864 B01L2300/0867 B01L2400/0415 B01L2400/0487 B01F5/0646 B01F5/0653 B01J19/0046 B01J2219/00286 B01J2219/00351 B01J2219/00418 B01J2219/00479 B01J2219/00576 B01J2219/00585 B01J2219/0059 B01J2219/00592 B01J2219/00599 B01J2219/0065 B01J2219/00657 B01J2219/00664 B01J2219/00702 B01J2219/0072 B01J2219/00722 B01J2219/0074 B01J2219/00743 B01L3/502761 B01L7/52 B01L2300/0645 B01L2300/0654 B01L2300/0681 C40B40/04 C40B50/08 G01N33/5008 G01N2500/00

European class: B01F13/00M2A B01F3/08C B01J19/00R B01L3/00B4 B01L3/00C6M18C B01L3/5027J4 B01L3/565 B03C5/00B B03C5/02B4 C12Q1/00 C12Q1/68A4 C12Q1/68D C12Q1/68E4 G01N15/14H1 G01N21/05 G01N21/64 G01N35/08 L01L200/02D2 L01L200/06G L01L200/06J L01L200/06K L01L200/10 L01L3/5027B L01L3/5027F L01L300/06B2 L01L300/08B4 L01L300/08E L01L300/08E2 L01L300/08E4 L01L300/16A4 L01L400/04F6 L01L400/04F6D L01L400/04M8 L01L400/08P2 L01L7/525 L01L9/527 M12Q565/628 S01N201/024 S01N35/00D5 S01N35/00D9

US class: 1/1 137/602 137/602S 137/892 137/892S 137/896 137/896S 204/450 204/554 264/219 264/219S 422/100 422/100S 422/400 422/400S 422/82.08 422/82.080 422/82.080P 435/183 435/183S 435/283.1 435/287.2 435/287.200P 435/34 435/4 435/4S 435/5 435/6 435/6.11 435/6.12 435/6P 435/91.2 435/91.200 435/91.200S 436/501 506/18 506/2 506/26 506/27 506/27S 506/9 73/53.01 73/53.010 73/53.010S 73/54.01 73/54.010 73/54.010S 73/61.41 73/61.410 73/61.410S 73/863.21 73/863.210 73/863.210S

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Abstract:
Source: US2008003142A The present invention provides novel microfluidic substrates and methods that are useful for performing biological, chemical and diagnostic assays. The substrates can include a plurality of electrically addressable, channel bearing fluidic modules integrally arranged such that a continuous channel is provided for flow of immiscible fluids.

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Title: TISSUE REMOVAL DEVICE FOR USE WITH IMAGING DEVICES IN NEUROSURGICAL AND SPINAL SURGERY APPLICATIONS

Priority:

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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

International class (IPC 8–9): A01N1/02 A61B1/00 A61B1/018 A61B10/00 A61B10/02 A61B17/00 A61B17/20 A61B17/22 A61B17/295 A61B17/32 A61B17/3205 A61B17/3207 A61B17/34 A61B18/00 A61B18/16 A61B18/18 A61B19/00 A61B19/02 A61B8/00 A61B8/06 A61B90/40 A61F9/007 A61M1/00 A61M31/00 B65D81/38 G01N1/31 (Advanced/Invention); A61B17/00 A61B17/22 A61B17/3207 A61B17/34 A61B18/00 A61B18/02 A61B19/00 A61B90/20 A61M1/00 (Advanced/Non–invention); A61B1/012 A61B10/00 A61B10/02 A61B17/00 A61B17/32 A61B17/34 A61F9/007 A61M1/00 (Core/Invention)

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European class: A61B1/018 A61B1/313 A61B10/02P6N A61B17/16S4 A61B17/3207R A61B17/32E2 A61B17/34G4 A61B19/52H12 A61M1/00H10 K61B10/02A K61B10/02P6N K61B10/02P8 K61B17/00C K61B17/00E1D K61B17/00F4 K61B17/00H K61B17/00H4 K61B17/00Q12 K61B17/00Q14 K61B17/00S32 K61B17/00V K61B17/00V2 K61B17/22L K61B17/29J2R K61B17/3205G K61B17/3207S K61B17/3207S2 K61B17/32E2R K61B17/32E2S K61B17/32K K61B17/32T K61B17/34G4 K61B17/34G4M K61B18/00A K61B18/22 K61B19/26 K61B19/38 K61B19/48H8 K61B19/52F K61B19/54D K61B19/54L K61B217/00Q16 K61B217/00Q18 K61M1/00H10 K61M1/00H14 K61M1/00H1A K61M1/00K4 K61M1/00T

US class: 1/1 128/898 128/898S 435/284.1 435/284.100S 435/307.1 600/104 600/104P 600/439 600/439P 600/564 600/566 600/566P 600/567 600/567P 600/567S 600/568 604/22 604/22S 604/317 604/317S 606/13 606/13S 606/167 606/167P 606/167S 606/170 606/170P 606/171 606/171P 606/171S 606/177 606/180 606/180P 606/180S 606/41 606/41S

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Abstract:
Source: US2010152533A A tissue cutting device that is especially suited for neurosurgical applications is disclosed and described. The device includes a handpiece and an outer cannula in which a reciprocating inner cannula is disposed. The inner cannula includes a hinge between a body section and a cutting section that allows the cutting section to pivot when the inner cannula reciprocates within the outer cannula. A tissue collector is also provided and is in fluid communication with the lumen of the inner cannula. The tissue cutting device may be used with imaging device such as microscopes and endoscopes during neurosurgery procedures.

117) Family number: 41802075 (US2008135053A) © PatBase

Title: METHODS, SYSTEMS AND DEVICES FOR PERFORMING GYNECOLOGICAL PROCEDURES

Priority:

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Family:

Publication number	Publication date	Application number	Application date
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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 TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): A61B1/00 A61B1/012 A61B1/018 A61B1/06 A61B1/303 A61B10/02 A61B17/00 A61B17/02 A61B17/12 A61B17/22 A61B17/29 A61B17/30 A61B17/32 A61B17/3201 A61B17/3205 A61B17/3207 A61B17/34 A61B17/42 A61B18/14 A61B19/00 A61B5/00 A61B8/12 A61B90/30 A61F6/00 A61F6/06 A61F6/20 A61F6/22 A61M1/00 A61M25/00 A61M25/09 A61M25/10 A61M29/00 A61M29/02 A61M31/00 A61M37/00 A61N5/06 A61N7/02 (Advanced/Invention);
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US class: 1/1 128/831 128/832 128/898 128/898S 600/104 600/104P 600/114 600/154 600/154P 600/156 600/156S 600/158 600/158S 600/37 604/106 604/164.01 604/164.010P 604/22 604/27 604/28 604/28S 604/514 604/515 604/517 606/115 606/119 606/119P 606/119S 606/170 606/170P 606/171 606/171P 606/180 606/193 606/193S 606/198 606/198S

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AU2011319797, AU2010337128,

Abstract:
Source: US2008135053A Methods, systems and devices for performing gynecological procedures. According to one embodiment, there is provided a device for occluding a fallopian tube, the device including an outer member and an inner member. The outer member may be a hollow, frusto−conical structure shaped to include an open proximal end, an open distal end, and a side wall. The outer member may be self−expandable such that the distal end is biased radially outwardly. In addition, the side wall may have a porous structure to permit the ingrowth of tissue therethrough. Tines may be provided on the outer surface of the side wall to promote the anchoring of the outer member in a fallopian tube. The inner member, which may be structured to induce scarring, may comprise an elongated fibrous body fixed at its proximal end to the proximal end of the outer member. A bore may extend distally from the proximal end of the inner member to receive a delivery rod. The inner member, which may have pores or interstices to permit the ingrowth of tissue thereinto, is coated or impregnated with a sclerosing agent.

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Title: COATING FOR IMPLANTABLE DEVICES AND A METHOD OF FORMING THE SAME

Priority:

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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 UM US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): A61F13/00 A61F2/00 A61F2/02 A61F2/04 A61F2/06 A61F2/24 A61F2/82 A61F2/84 A61F2/844 A61F2/86 A61F2/90 A61F2/91 A61K31/337 A61K31/436 A61K31/439 A61K31/4745 A61K31/56 A61K31/573 A61K45/00 A61K45/06 A61K9/00 A61K9/16 A61K9/22 A61K9/52 A61L2/00 A61L27/00 A61L27/30 A61L27/34 A61L27/54 A61L27/58 A61L29/00 A61L29/08 A61L29/16 A61L31/00 A61L31/08 A61L31/10 A61L31/14 A61L31/16 A61L33/00 A61L33/10 A61M25/00 A61M29/02 A61M37/00 A61P1/02 A61P1/16 A61P13/02 A61P29/00 A61P3/06 A61P3/10 A61P31/04 A61P31/12 A61P35/00 A61P37/00 A61P37/06 A61P43/00 A61P7/00 A61P7/02 A61P7/04 A61P9/00 A61P9/08 A61P9/10 A61P9/14 B05C13/02 B05D1/02 B05D1/38 B05D3/00 B05D3/02 B05D3/04 B05D3/10 B05D5/00 B05D7/00 B29C65/10 B29C65/76 B29C71/02 B29D11/00 (Advanced/Invention);
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A61F2/00 A61F2/06 A61F2/82 A61K31/337 A61K31/4353 A61K31/4738 A61K31/56 A61K31/57 A61K45/00 A61K9/00 A61L27/00 A61L29/00 A61L31/00 A61L31/08

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A61F2/06 A61F2/82 (Core/Non–invention)

International class (IPC 1–7): A61F2/00 A61F2/02 A61F2/06 A61K31/337 A61K31/436 A61K47/30 A61K47/32 A61K47/34 A61K9/00 A61K9/14 A61L2/00 A61L27/00 A61L27/34 A61L27/54 A61L29/00 A61L29/08 A61L29/16 A61L31/00 A61L31/10 A61L31/14 A61L31/16 A61L33/00 A61L33/10 A61M29/02 A61M31/00 B05D1/36 B05D1/40 B05D3/00 B05D3/06 B05D7/20 B05D7/22 C08F116/06 C08K3/00 C08K5/15

CPC: A61L2300/41 A61L2300/45 A61L31/146 A61L2300/00 A61K31/56 A61L2300/222 A61L2300/406 A61K31/436 A61L2300/42 A61F2240/001 B29C71/02 Y10S514/822 B05D1/38 A61K31/573 C08L29/04 A61L27/306 A61L2300/608 A61L2300/216 A61L2420/06 Y10T428/2495 Y10T428/2955 A61L33/0011 A61L27/34 A61L29/085 A61L29/16 A61L31/10 Y10T428/1393 B05D3/0466 B05D3/0473 B05D3/048 A61L27/54 A61L2300/416 A61L2300/602 A61L2300/606 A61F2210/0004 B05D3/0254 A61L2420/08 Y10T428/31507 Y10T428/31551 Y10T428/31725 Y10T428/31786 Y10T428/31855 A61F2250/0067 A61F2250/0068 A61K9/0024 A61K9/1647 A61K31/4745 A61L27/58 A61F2310/00389 A61K2300/00 A61L31/08 A61K31/439 A61L31/14 A61L31/148 A61L2300/604 A61L2300/204 A61F2/91 B29C65/76 A61F2/86 B29C65/10 A61F2210/0076 B29K2067/046 B29K2105/258 B29L2031/7534 A61F2/82 A61F2002/30062 A61F2002/30064 A61L2420/02 B05D1/02 A61F2/844 A61L31/16

European class: A61F2/06S A61F2/82 A61F2/91 A61K31/436 A61K31/4745 A61K31/56 A61K31/573 A61L27/30R A61L27/34 A61L27/54 A61L29/08B A61L29/16 A61L31/10 A61L31/14H A61L31/14K A61L31/16 A61L33/00H2 B05D3/04N B29C71/02 K61F2/06S6N2 K61F2/82 K61F2/91 K61F210/00A K61F240/00M K61F250/00W5 K61F250/00W5R K61L300/00 K61L300/406 K61L300/410 K61L300/416 K61L300/420 K61L300/450 K61L300/602 K61L300/606 K61L300/608 K61L420/02 K61L420/08 L05D3/02S L05D3/04N3 L05D3/04N5

US class: 1/1 118/58 118/58S 264/249 264/345 264/345P 42/7.225 424/400 424/422 424/422P 424/422S 424/423 424/423P 424/424 424/425 424/425S 424/426 424/426P 424/484 424/486 424/486S 424/78.08 427/2.1 427/2.100P 427/2.100S 427/2.13 427/2.130S 427/2.14 427/2.140S 427/2.21 427/2.210P 427/2.24 427/2.240S 427/2.25 427/2.250P 427/2.28 427/2.280S 427/2.3 427/21 427/21.4 427/214 427/22.5 427/23 427/230 427/232 427/235 427/258 427/261 427/286 427/287 427/316 427/318 427/331 427/346 427/355 427/372.2 427/384 427/407.1 427/409 427/420 427/421 427/425 427/427.4 427/446 427/447 427/553 427/554 427/555 427/556 428/213 428/36.91 428/387 428/412 428/423.1 428/474.4 428/480 428/500 514/171 514/171S 514/291 514/291S 514/449 514/772.2 514/772.3 514/822 523/105 523/105S 523/112 523/112S 523/113 523/113S 523/121 524/113 524/173 524/173S 524/315 524/315S 524/379 524/379S 524/428 524/429 524/503 525/56 525/57 525/60 525/60P 604/500 604/500S 604/890.1 604/890.100S 606/230 62/3.115 623/1.1 623/1.11 623/1.12 623/1.14 623/1.15 623/1.150P 623/1.150S 623/1.2 623/1.34 623/1.39 623/1.42 623/1.420P 623/1.420S 623/1.43 623/1.44 623/1.45 623/1.46 623/1.460P 623/1.49 623/11 623/11.5 623/114 623/12 623/14.2 623/14.3 623/14.4 623/14.6 623/14.9 623/144 623/145 623/149 623/23.7

Classification Explorer

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Abstract:
Source: US2001014717A Coatings for implantable devices or endoluminal prosthesis, such as stents, are provided, including a method of forming the coatings. The coatings can be used for the delivery of an active ingredient or a combination of active ingredients.

119) Family number: 30505871 (US2005277086A) © PatBase

Title: OCCLUDATOR, FACE BOW, OCCLUSION–CONFIRMING SYSTEM AND TEMPOROMANDIBULAR JOINT–REPRODUCING SYSTEM

Priority: JP20020283250 20020927 WO2003JP12345 20030926

Family:

Publication number	Publication date	Application number	Application date
AU2003268686 AA	20040419	AU20030268686	20030926
CN1684639 A	20051019	CN20038023187	20030926
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FI20050301 A	20050321	FI20050000301	20050321
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JP4552004 B1	20100929	JP20040539558	20030926
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WO04028396 A1	20040408	WO2003JP12345	20030926

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Assignee(s): NIHON UNIVERSITY ; NIHON UNIV

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Agent(s): YOUNG AND BASILE PC; YOUNG BASILE NANION MACFARLANE AND HELMHOLDT PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR 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 LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ 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

International class (IPC 8–9): A61C11/00 A61C11/02 A61C19/04 A61C19/045 G06T1/00 (Advanced/Invention); A61C11/00 (Advanced/Non–invention); A61C11/00 A61C19/04 (Core/Invention)

International class (IPC 1–7): A61C A61C11/00 A61C19/04

CPC: B33Y80/00 A61C19/045 A61C11/005 A61C11/022

European class: A61C11/02A A61C19/045 K61C11/00M

US class: 433/54 433/57 433/64 433/73

Classification Explorer

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Forward Citations: WO16013359, WO09138483, WO09050455, US9517116, US9408679, US9332948, US7955077, US7699607, US2015147726, US2012244487, US2011207073,

US2011152675, US2009305185, US2009155738, US2008187882, KR20110039547, KR101706619, KR101299456, KR100940997, JP4446094, JP2011520487, JP2010155103, JP2008253808, JP2006081747, FR2912050, EP2306928, EP1952783,

Abstract:
Source: US2005277086A It is intended to provide an occludator whereby joint movements at occlusion being similar to the actual tempromandibular joint movements of an individual patient or ideal movements can be reproduced, and a face bow to be used for the occludator. To achieve this object, an occlusion plane against a standard plane is accurately drawn by using the above face bow F whereby the occlusion plane can be drawn at a high accuracy. A solid model of the tempromandibular joint similar to the tempromandibular joint form of an actual patient is used as the joint unit of the occludator K, while the positional relationship in the body at occlusion is three−dimensionally reproduced in the occludator I with the use of the above−described face bow F. It is also intended to provide an occlusion−confirming system and a tempromandibular joint−reproducing system with the use of an occludator whereby joint movements at occlusion being similar to the actual tempromandibular joint movements of an individual patient or ideal movements can be reproduced. To achieve this object, the tempromandibular joint of the body is photographed with a local X−ray CT device to give three−dimensional image data and then a solid model of the tempromandibular joint is constructed based on the three−dimensional image data. This solid model is employed as the joint unit of the occludator K and the positional relationship in the body at occlusion is three−dimensionally reproduced.

0) US2013284651A – LIQUID RECOVERY FILTER

120) Family number: 55059327 (US2013284651A) © PatBase

Title: LIQUID RECOVERY FILTER

Priority: US20120460583 20120430 US20140521437 20141022 WO2013US37671 20130423 US20140992029P 20140512 WO2015US30280 20150512

Family:

Publication number	Publication date	Application number	Application date
CN104487148 A	20150401	CN201380022634	20130423
CN104487148 B	20161214	CN201380022634	20130423
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KR20150003902 A	20150109	KR20147033626	20130423
SG11201407059T A	20141127	SG20141107059	20130423
US2013284651 AA	20131031	US20120460583	20120430
US2015041380 AA	20150212	US20140521437	20141022
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WO15175470 A1	20151119	WO2015US30280	20150512
WO15175470 A9	20160107	WO2015US30280	20150512

Probable Assignee: ZENPURE CORP

Assignee(s):(std)**:** ANDREWS JACOB ; HERTRICK HANNAH C ; LIN ZHENWU ; SAINT GOBAIN PERFORMANCE PLAST ; ZENPURE CORP ; ZENPURE AMERICAS INC ; SAINT GOBAIN PERFORMANCE PLASTICS CORP

Inventor(s):(std)**:** ANDREWS JACOB ; HERTRICK HANNAH C ; LIN ZHENWU

Agent(s): GERVASI GEMMA; ZIMMERMANN AND PARTNER PATENTANWAELTE MBB; KITA AOYAMA INT PATENT BUREAU; LORUSSO MARK D

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

International class (IPC 8–9): B01D19/00 B01D24/48 B01D27/07 B01D29/07 B01D29/11 B01D29/21 B01D29/46 B01D29/60 B01D29/66 B01D29/90 B01D35/01 B01D35/16 B01D36/00 (Advanced/Invention)

CPC: B01D29/90 B01D29/52 B01D35/30 B01D29/58 B01D19/0031 B01D29/21 B01D35/16 B01D36/001

US class: 210/188 210/248

Classification Explorer

Cited documents: WO12136801 A1, WO11085012 A2, WO05118106 A2, WO0218037 A2, US8110102 BB, US6602412 BB, US6517711 BA, US6294090 BA, US5928523 A, US5776342 A, US5462679 A, US5328609 A, US4411791 A, US2013284651 AA, US2009001019 AA, US2008121583 AA, US2008060992 AA, US2007017879 AA, US2005172808 AA, US2002056675 AA, JP8192006 A2, JP2009544426 T2, JP2008501512 T2, JP2003210912 A2, JP2001276515 A2, CN201997161 U, CN201208523 Y, CN201006357 Y,

Forward Citations: WO15175470, US2015352471, EP3144053,

Abstract:
Source: US2013284651A The liquid recovery filter includes several embodiments, each of which provides for the recovery of liquid otherwise trapped within the filter housing and element. Each embodiment includes a series of vents, purge ports, and passages that communicate fluidly with the filter housing and filter core. Certain vents and purge ports are initially opened following filtration operations to allow pressurized gas to flow into the housing, thereby forcing residual unfiltered liquid through the filter. When this has been accomplished, another vent is opened to the filter core to allow filtered liquid to flow from the downstream or outlet passage from the filter core. Some embodiments have the filter outlet located above the filter, and include a downstream drain port extending from the filter core. The downstream drain port provides for the recovery of filtered liquid when the vent or purge port is opened in these embodiments.

0) US5671818A – ROTARY DRILL BITS

121) Family number: 12401674 (US5671818A) © PatBase

Title: Rotary drill bits

Priority: GB19940020838 19941015 GB19950018267 19950908 GB19950019836 19950929 GB19950019862 19950929 US19970834439 19970416 US19970835812 19970416 US19950541774 19951010 US19980207909 19981209 US19970834440 19970416 US19980208170 19981209 US19980208197 19981209

Family:

Publication number	Publication date	Application number	Application date
DE69529139 D1	20030123	DE19956029139	19950929
DE69529139 T2	20031009	DE19956029139T	19950929
DE69531431 D1	20030911	DE19956031431	19950929
DE69531431 T2	20040701	DE19956031431T	19950929
DE69825520 D1	20040916	DE19986025520	19980409
DE69825520 T2	20050811	DE19986025520T	19980409
DE69832318 D1	20051222	DE19986032318	19980409
DE69832318 T2	20060810	DE19986032318T	19980409
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EP0707131 A3	19961023	EP19950306939	19950929
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EP0707132 A3	19970409	EP19950306937	19950929
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GB2294070 B2	19980422	GB19950019836	19950929
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GB2294071 B2	19980429	GB19950019862	19950929
GB2326656 A1	19981230	GB19980007553	19980409
GB2326656 B2	20011212	GB19980007553	19980409
GB2326657 A1	19981230	GB19980007554	19980409
GB2326657 B2	20020227	GB19980007554	19980409
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GB9518267 A0	19951108	GB19950018267	19950908
GB9519836 A0	19951129	GB19950019836	19950929
GB9519862 A0	19951129	GB19950019862	19950929
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US5671818 A	19970930	US19950541774	19951010
US5697461 A	19971216	US19950541995	19951010
US5819860 A	19981013	US19970834440	19970416
US5904213 A	19990518	US19970835812	19970416
US5967246 A	19991019	US19980208170	19981209
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US6089336 A	20000718	US19970834439	19970416	
US6092613 A	20000725	US19980207909	19981209	

Probable Assignee: CAMCO INT UK LTD

Assignee(s):(std)**:** CAMCO DRILLING GROUP LTD ; CAMCO DRILLING GROUP LTD OF HY ; CAMCO INT UK LTD ; CAMCO INT ; CAMCO INTERNATIONAL ; CAMCO INTERNAT

Assignee(s): REEDHYCALOG UK LTD ; CAMCO INTERNATIONAL UK LTD ; CAMCO INTERNATIONAL UK LTD STONEHOUSE ; CAMCO INTERNATIONAL INC ; CAMCO INTERNATIONAL UK LIMITED ; CAMCO INT (UK) LTD ; CAMCO INT LTD ; CAMCO INT INC ; CAMCO DRILLING GROUP LTD OF HYCALOG ; CAMCO DRILLING GROUP LTD STONEHOUSE ; CAMCO DRILLING GROUP LIMITED

Inventor(s):(std)**:** WATSON GRAHAM R ; TAYLOR STEVEN ; TAYLOR MALCOLM R ; ROBERTS TOM SCOTT ; HAYWARD JOHN ; CARAWAY DOUGLAS ; WATSON GRAHAM ; SARIK DANIEL J ; NEWTON ALEX ; MURDOCK ANDREW ; FULLER JOHN M ; TOMCZAK MICHAEL ; CLEGG JOHN MARTIN ; CLEGG JOHN M ; TAYLOR MALCOLM ROY ; NEXTON ALEX ; FULLER JOHN

Inventor(s): DOUGLAS CARAWAY ; DANIEL J SARIK ; MICHAEL TOMCZAK ; MALCOLM ROY TAYLOR ; JOHN HAYWARD ; JOHN FULLER ; GRAHAM WATSON ; STEVEN TAYLOR ; JOHN MARTIN CLEGG ; ANDREW MURDOCK ; ALEX NEWTON ; TOM SCOTT ROBERTS

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

International class (IPC 8–9): E21B10/00 E21B10/26 E21B10/54 E21B10/55 E21B10/56 E21B10/567 E21B10/60 E21B17/10 (Advanced/Invention)

International class (IPC 1–7): E21B10/00 E21B10/08 E21B10/26 E21B10/46 E21B10/54 E21B10/56 E21B10/60 E21B17/10

CPC: E21B10/003 E21B10/26 E21B10/55 E21B10/60 E21B10/602 E21B17/1092 E21B17/1064 E21B10/00 E21B10/567

European class: E21B10/00 E21B10/00C E21B10/26 E21B10/54B E21B10/55 E21B10/567 E21B10/56B E21B10/60 E21B10/60B E21B17/10 E21B17/10R3 E21B17/10Z

US class: 175/331 175/385 175/391 175/393 175/399 175/408 D15/021 D15/21

Classification Explorer

Cited documents: WO9412760 A1, US790330 A, US5794725 A, US5678644 A, US5671818 A, US5467836 A, US5452628 A, US5449048 A, US5417296 A, US5339910 A, US5244039 A, US5199511 A, US5145017 A, US5131478 A, US5099934 A, US5029657 A, US4848491 A, US4823892 A, US4733735 A, US4718505 A, US4687066 A, US4676324 A, US4618010 A, US4577706 A, US4549614 A, US4534426 A, US4515227 A, US4512425 A, US4440247 A, US4384747 A, US4098363 A, US4073354 A, US3951220 A, US3945446 A, US3762828 A, US3743036 A, US3419091 A, US3370657 A, US3367430 A, US3135341 A, US3111179 A, US3099324 A, US2864601 A, US2587231 A, US2167194 A, US2009742 A, SU994675 T, GB900099 A, GB713998 A, GB271839 A, GB2312007 A1, GB2298666 A1, GB2294070 A1, GB2238335 A1, GB2181173 A1, GB2083102 A1, EP0707132 A2, EP0467580 A1, EP0295045 A2, EP0058061 A2, DE2625093 A1,

Forward Citations: WO9937881, WO9913194, WO16124890, WO14055287, WO13166266, WO10079108, WO10078230, WO10078230, WO10014725, WO10014725, WO09140006, WO09073656, WO09064969, WO09022146, WO09022145, WO08092130, WO08092113, WO08092113, WO08091654, WO07107181, WO07107181, WO07098159, WO07098159, WO05080742, WO0242597, WO0216725, USD678368, USD674422, USD620510, US9670736, US9657527, US9617794, US9580788, US9556681, US9523244, US9476259, US9464490, US9458674, US9439277, US9366089, US9353575, US9316061, US9316058, US9291001, US9249654, US9200483, US9174325, US9145739, US9068410, US9051795, US9022149, US9004198, US8978788, US8978786, US8969754, US8950517, US8950514, US8948917, US8931854, US8899352, US8887839, US8869919, US8851207, US8839888, US8820440, US8794356, US8763726, US8757299, US8757294, US8746368, US8732991, US8727036, US8720605, US8720604, US8714285, US8701799, US8678111, US8622155, US8616305, US8596381, US8590644, US8573331, US8567532, US8550190, US8550185, US8550183, US8544568, US8540037, US8534384, US8534380, US8528664, US8522897, US8505634, US8500833, US8499857, US8471182, US8469120, US8459378, US8450637, US8448724, US8434573, US8418784, US8408336, US8393417, US8360174, US8356398, US8347989, US8342266, US8336646, US8333254, US8316964, US8307919, US8297380, US8297378, US8297375, US8281882, US8274399, US8267196, US8245797, US8240404,

US8230952, US8225888, US8225887, US8225883, US8215420, US8205693, US8205688, US8191654, US8191651, US8191635, US8177001, US8167059, US8157026, US8141664, US8130117, US8127869, US8122980, US8079430, US8066085, US8056651, US8047307, US8020471, US8011457, US8006785, US7971661, US7967083, US7967082, US7954571, US7954570, US7954401, US7946362, US7926596, US7900720, US7900703, US7896106, US7886851, US7866416, US7861809, US7845435, US7845430, US7841426, US7836979, US7819208, US7762355, US7762353, US7748475, US7726419, US7721826, US7694756, US7694755, US7661487, US7641002, US7624818, US7621351, US7617886, US7600586, US7591327, US7571780, US7559379, US7546888, US7533737, US7527110, US7497279, US7484576, US7464774, US7457734, US7455126, US7424922, US7419018, US7419016, US7395882, US7392857, US7370710, US7325631, US7318492, US7195082, US7083011, US7004267, US6971458, US6659173, US6606923, US6575350, US6568492, US6564886, US6484825, US6484822, US6474425, US6454028, US6450270, US6446739, US6427792, US6412579, US6408958, US6394200, US6321862, US6290007, US6260636, US6250408, US6234261, US6230827, US6206117, US6173797, US6170576, US6167833, US6148936, US6138780, US6129161, US6125947, US6123160, US6112836, US6095264, US6092613, US6079507, US6062325, US6006845, US5992547, US5967247, US5967246, US5957227, US5904213, US5836404, US5794725, US2014138157, US2012272552, US2012138365, US2011198128, US2011192651, US2011174541, US2011155472, US2011024200, US2011023377, US2011005837, US2010326742, US2010300761, US2010259415, US2010252327, US2010224417, US2010181292, US2010155145, US2010126771, US2010122848, US2010078223, US2010059289, US2010038140, US2010025121, US2009272582, US2009188720, US2009126998, US2009107730, US2009095537, US2009084607, US2009084606, US2009065263, US2009044981, US2009044980, US2009044979, US2009044977, US2009032309, US2008264695, US2008179108, US2008179107, US2008179106, US2008135297, US2008041632, US2008035388, US2007229304, US2007215389, US2007147964, US2007102201, US2007039761, US2007023188, US2006249309, US2006234727, US2006131075, US2006070771, US2006037785, US2005183892, US2005067166, US2005034901, US2004136269, US2004069540, US2002121393, GC3301, GB2474148, GB2464189, GB2452629, GB2452629, GB2424434, GB2363415, GB2363415, GB2339811, GB2339811, GB2339227, GB2339227, GB2328964, GB2328964, GB2326657, GB2326657, GB2326656, GB2326656, GB2325014, GB2325014, FR2751372, EP2904183, EP2324185, EP1856368, EP1454029, EP1339939, EP1227214, EP1227213, EP1212511, EP0974730, EP0962620, EP0872625, EP0872624, EA018284, DE102014002967, CN105064921, CN104364460, CN103233683, CN103233683, CN102661124, BE1018563, BE1014915, AU2009336690, AU2002221922, AU2001295249,

Abstract:
Source: US5671818A A rotary drill bit for use in drilling holes in subsurface formations comprises a bit body having a leading face and a gauge region, a number of blades formed on the leading face of the bit and extending outwardly away from the axis of the bit so as to define between the blades a number of fluid channels leading towards the gauge region, a number of cutting elements mounted side−by−side along each blade, and a number of nozzles in the bit body for supplying drilling fluid to the fluid channels for cleaning and cooling the cutting elements. In at least one of the fluid channels, adjacent the gauge region, is an opening into an enclosed passage which passes internally through the bit body to an outlet which, in use, communicates with the annulus between the drill string and the wall of the borehole being drilled. The portion of the gauge region outwardly of the opening comprises a bearing surface which, in use bears against the wall of the bore hole and extends across the width of the channel.

0) US2013312761A – ACUTE AND PERMANENT OCCLUSION DEVICE, DELIVERY ...

122) Family number: 55198998 (US2013312761A) © PatBase

Title: ACUTE AND PERMANENT OCCLUSION DEVICE, DELIVERY CATHETER AND METHOD

Priority: US20120478880 20120523 US20120566080 20120803

Family:

Publication number	Publication date	Application number	Application date
US2013312761 AA	20131128	US20120478880	20120523
US2013312762 AA	20131128	US20120566080	20120803
US9592148 BB	20170314	US20120478880	20120523
US9597223 BB	20170321	US20120566080	20120803

Probable Assignee: WIJAY BANDULA

Assignee(s):(std)**:** WIJAY BANDULA ; WIJAY NANDHIKA

Inventor(s):(std)**:** WIJAY BANDULA ; WIJAY NANDHIKA

Agent(s): STEVE

International class (IPC 8–9)**:** A61F6/22 (Advanced/Invention)

CPC: A61F6/225

US class: 128/831

Classification Explorer

Cited documents: US8747430 BB, US8443808 BB, US8100129 BB, US7846160 BB, US7819880 BB, US7749279 BB, US7736326 BB, US6629533 BA, US6588429 BA, US6357443 BA, US6251141 BA, US5935169 A, US5935137 A, US5893850 A, US5861043 A, US5746769 A, US5656036 A, US5601600 A, US5334137 A, US5287852 A, US4874139 A, US4733665 A, US4677967 A, US4246896 A, US4043338 A, US3675642 A, US2014163608 AA, US2011284009 AA, US2011174312 AA, US2010234878 AA, US2010163054 AA, US2009054723 AA, US2008135054 AA, US2003066533 AA,

Abstract:
Source: US2013312761A An endoluminal occluding device consisting of a conical–shaped structure which is attached to a threaded central tubular element is capable of occluding a body lumen immediately after placement. When deployed within a body lumen, such as a fallopian tube, the conical–shaped structure extends radially outward from the central tubular element, thereby acutely occluding the body lumen, and, in the case of the fallopian tubes, preventing conception. As the acute occlusion device is being implanted into a body lumen, it is rotated, as the screw threads, which embed into the body lumen wall, advance the device within the body lumen to the desired located. Once implanted and deployed into a body lumen, the acute occlusion device provides immediate occlusion of the body lumen. A proximal anchor prevents the endoluminal device from migrating into the body lumen once it has been deployed.

0) US2002032432A – TOOL FOR FACILITATING THE CONNECTING OF A CATHE...

123) Family number: 28261185 (US2002032432A) © PatBase

Title: Tool for facilitating the connecting of a catheter or other tubular member onto a guide–wire without access to the ends of the guide–wire

Priority: US20000523077 20000310 US20010861728 20010521 US20020230312 20020828 US20020252477 20020923 US20020477475 20020521 US20070928897 20071030 US20030352572 20030128 US20040927179 20040826 WO2001US07318 20010308 US20040477475 20040227 WO2002US16251 20020521

Family:

Publication number	Publication date	Application number	Application date
AT343409 E	20061115	AT20010918421T	20010308
AU2001245501 AA	20010924	AU20010245501	20010308
AU200145501 A5	20010924	AU20010045501	20010308
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CA2402137 AA	20020906	CA20012402137	20010308
CA2402137 C	20080520	CA20012402137	20010308
CA2447621 AA	20031118	CA20022447621	20020521
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US6569151 BA	20030527	US20000523077	20000310
US6869417 BA	20050322	US20020252477	20020923
US6872192 BB	20050329	US20020230312	20020828
US6926707 BB	20050809	US20030352572	20030128
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US7744588 BB	20100629	US20020477475	20020521
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WO02094364 A2	20021128	WO2002US16251	20020521
WO02094364 A3	20031030	WO2002US16251	20020521

Probable Assignee: KENSEY NASH CORP

Assignee(s):(std): CUNNINGHAM H MICHAEL ; EVANS DOUGLAS G ; FISHER WILLIAM T ; KENSEY NASH CORP ; NASH JOHN E ; PARIS MICHAEL ; SAURO DENNIS M ; SZABO DAVID ; WALTERS GREGORY

Assignee(s): CUNNINGHAM H ; WALTERS GREG

Inventor(s):(std)**:** EVANS DOUGLAS G ; FISHER T ; FISHER WILLIAM T ; GREGORY WALTERS ; JOHN E NASH ; MICHAEL PARIS ; NASH E ; NASH JOHN E ; PARIS MICHAEL ; SAURO DENNIS ; SAURO DENNIS M ; SZABO DAVID ; WALTERS GREG ; WALTERS GREGORY ; CUNNINGHAM H ; CUNNINGHAM H MICHAEL ; CUNNINGHAM MICHAEL ; DAVID SZABO ; DOUGLAS G EVANS

Inventor(s): EVANS DOUGLAS ; WILLIAM T FISHER ; H MICHAEL CUNNINGHAM ; NASH JOHN

Agent(s): RIDOUT AND MAYBEE LLP; MARCH GARY CLIFFORD; JEFFREY C KELLY ESQ KENSEY NASH CORP; CAESAR RIVISE BERNSTEIN COHEN AND POKOTILOW LTD; JEFFREY R

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

International class (IPC 8–9): A61M25/00 A61M25/01 A61M25/09 A61M25/16 A61M25/18 A61M29/02 A61M39/00 (Advanced/Invention); A61M29/02 (Advanced/Non–invention); A61M25/00 A61M25/01 A61M25/09 A61M25/16 A61M39/00 (Core/Invention); A61M29/02 (Core/Non–invention)

International class (IPC 1–7): A61F11/00 A61M25/00 A61M25/01 A61M25/16 A61M25/18 A61M39/00 A61M39/10 A61M5/178

CPC: A61M25/00 A61M25/0068 A61M25/007 A61M25/0074 A61M25/0169 A61M25/09041 A61M2025/0177 A61M2025/018 A61M2025/0186 A61M2025/09008 A61M2025/09125 A61M2025/1056 A61M2025/1095 A61M29/02 A61M2025/0183 A61M25/104

European class: A61M25/00 A61M25/00T10 A61M25/01B3 A61M25/01E A61M25/09C A61M25/10P A61M29/02 K61M25/00T10C K61M25/00T20 K61M25/01K K61M25/01L K61M25/01M K61M25/01N K61M25/09A K61M25/09C K61M25/09L K61M25/10Z23 K61M25/10Z6

US class: 604/103 604/158 604/160 604/160P 604/164.01 604/164.010P 604/164.02 604/164.1 604/165.01 604/165.010S 604/236 604/247 604/264 604/264S 604/30 604/533 604/533P 606/108 606/108P

Classification Explorer

Cited documents: WO9531157 A1, WO9511707 A1, US7169130 BB, US7001358 BB, US6872192 BB, US6783520 BA, US6613091 BA, US6569201 BB, US6569151 BA, US6517518 BB, US6503279 BA, US6497670 BA, US6419945 BA, US6346123 BA, US6241771 BA, US6190333 BA, US6156062 A, US6086543 A, US6039762 A, US6022336 A, US6013038 A, US6007517 A, US5986169 A, US5879361 A, US5776115 A, US5752970 A, US5702449 A, US5575771 A, US5368573 A, US5357978 A, US5344413 A, US5324306 A, US5306303 A, US5282861 A, US5267958 A, US5166187 A, US5147377 A, US5137517 A, US5131407 A, US5105807 A, US5046497 A, US5016559 A, US4946443 A, US4829999 A, US4771782 A, US4501269 A, US4230109 A, US3915167 A, US3472232 A, US2002032432 AA, EP0784985 A1, EP0348136 A2, EP0328760 A2, CA2184502 AA,

Forward Citations: WO14186633, WO12137139, WO11050085, WO11050085, WO10068739, WO08079835, WO07089891, WO07050977, WO07050977, WO07001543, WO06122038, WO05039681, WO04075788, WO04075788, WO04014472, WO04012604, USD761098, USD761097, USD678511, USD603044, USD571912, USD561896, USD541936, USD540468, US9592045, US9585686, US9526876, US9474546, US9408595, US9301825, US9238119, US9220395, US9216299, US9194512, US9131831, US9084558, US9005138, US8998969, US8951355, US8870755, US8827927, US8777841, US8774944, US8764631, US8753353, US8753352, US8747428, US8747300, US8702780, US8647256, US8608703, US8597300, US8574220, US8567657, US8523824, US8452421, US8435229, US8419680, US8414477, US8388759, US8388521, US8377041, US8366674, US8366638, US8343041, US8343040, US8317773, US8317678, US8308758, US8287585, US8267953, US8246752, US8235942, US8231550, US8206321, US8192355, US8167822, US8157766, US8147481, US8147427, US8137291, US8133190, US8088143, US8075497, US8048233, US8014849, US7951243, US7951092, US7905907, US7901367, US7862576, US7828751, US7811238, US7803107, US7798980, US7785275, US7758565, US7744588, US7731693, US7713261, US7637863, US7610912, US7569061, US7561924, US7244250, US7217246, US7186224, US7172577, US6872192, US6869417, US2014243854, US2014237798, US2014228808, US2013172821, US2013131549, US2013085468, US2012240378, US2012199060, US2012165854, US2011245809, US2011178370, US2011098798, US2011066194,

US2010327140, US2010318068, US2010286565, US2010274158, US2010234876, US2010174352, US2010152613, US2010106237, US2010100103, US2010081879, US2010081878, US2010076264, US2010069718, US2010010475, US2010010377, US2010010376, US2010006738, US2009264864, US2009198178, US2009188531, US2009157051, US2009076417, US2009005645, US2008306453, US2008263848, US2008221656, US2008208205, US2008194993, US2008154207, US2008154186, US2008109029, US2008108975, US2008051720, US2007299367, US2007225763, US2007208302, US2007208294, US2007191790, US2007185416, US2007185414, US2007184707, US2007179472, US2007167065, US2007135762, US2007118053, US2007118052, US2007100257, US2007088328, US2007010863, US2006253048, US2006200048, US2006195117, US2006083825, US2005277962, US2005273087, US2005148820, US2005131459, US2005113686, US2005090835, US2005080452, US2005075647, US2004225277, US2004215108, US2004133185, US2004073193, US2004030290, US2002198497, KR20100108281, KR101657462, JP5603348, JP2014087689, JP2012511960, JP2010227458, JP2009525134, JP2009524490, JP2008535602, JP2007508082, JP2007252930, JP2007252924, JP2007215900, ES2524842, EP2694149, EP1993654, EP1543779, EP1306103, CH700826, AU2007337024, AU2003245374,

Abstract:
Source: US2002032432A An attachment tool to facilitate the attachment of a catheter or similar elongated instrument to a guide−wire or other elongated guide member, without requiring access to either end of said wire or member. Said tool providing repeatable and reliable alignment of components to be attached, while being operated with a single hand. The tool further facilitates the attachment of a plurality of catheters or instruments to a single wire or member.

124) Family number: 33688180 (US2009209900A) © PatBase

Title: DEVICE AND METHOD FOR OPENING VASCULAR OBSTRUCTIONS

Priority:
EP20060728331 20060509 IL20050168568 20050511 IL20070187227 20071108
IL20050168569 20050511 IL20050170412 20050822 IL20060179618 20061127
WO2006IL00541 20060509 WO2007IL01435 20071121 US20080914095 20080708
US20100516431 20100310 US20120492098 20120608

Family:

Publication number	Publication date	Application number	Application date
CA2607503 AA	20071107	CA20062607503	20060509
CA2607503 C	20140415	CA20062607503	20060509
DE602006034747 D1	20130425	DE200660034747T	20060509
EP1890757 A1	20080227	EP20060728331	20060509
EP1890757 B1	20130227	EP20060728331	20060509
IL168568 A0	20060312	IL20050168568	20050511
IL168569 A0	20060312	IL20050168569	20050511
IL170412 A0	20060221	IL20050170412	20050822
IL187227 A0	20080209	IL20060187227	20060509
IL187227 A1	20140731	IL20060187227	20060509
JP2008539935 T2	20081120	JP20080510719T	20060509
JP4997226 B2	20120808	JP20080510719	20060509
US2009209900 AA	20090820	US20060914095	20060509
US2012302820 AA	20121129	US20120492098	20120608
US8295908 BB	20121023	US20060914095	20060509
US9014786 BB	20150421	US20120492098	20120608
WO06120674 A1	20061116	WO2006IL00541	20060509

Probable Assignee: EYOCA MEDICAL LTD

Assignee(s):(std)**:** CARMELI RAN ; EINAV JONATHAN ; EYOCA MEDICAL LTD ; YONAT ITAI

Assignee(s): ITAI YONAT ; RAN CARMELI ; JONATHAN EINAV ; I YONAT ; R CARMELI ; J EINAV

Inventor(s):(std)**:** CARMELI RAN ; EINAV JONATHAN ; YONAT ITAI

Inventor(s): ITAI YONAT ; JONATHAN EINAV ; RAN CARMELI

Agent(s): KIRBY EADES GALE BAKER; VOSSIUS AND PARTNER; Smee Anthony James Michael; SANFORD TCOLB AND CO; HENRY EINAV; BROWDY AND NEIMARK PLLC 624 NINTH STREET NW; TAROLLI SUNDHEIM COVELL AND TUMMINO LLP; RICHARD S; MATTHEW M

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

International class (IPC 8–9):
A61B17/00 A61B17/22 A61B5/05 A61B5/053 A61B5/055 A61H1/00 A61M A61M1/00 A61M25/01 A61N2/02 A61N2/04 (Advanced/Invention);
A61B17/00 A61B17/22 A61B8/08 A61B8/12 A61M25/00 A61M25/01 A61M25/09 (Advanced/Non–invention);
A61B17/22 A61B5/05 A61H1/00 A61M1/00 A61M25/01 A61N2/00 (Core/Invention);
A61B A61M (Subclass/Invention)

CPC: A61B17/22012 A61B2017/0003 A61B2017/22038 A61B5/0538 A61B8/0891 A61B8/12 A61B2017/00026 A61B2017/22008 A61B2017/22014 A61B2017/22042 A61M25/00 A61M25/01 A61M25/09

European class: A61B17/22B2 K61B17/00C1C2 K61B17/22G

US class:

600/12 600/12S 600/407 600/409 600/409S 600/410 600/411 600/423 601/2 601/3 601/4 601/46 601/46S 604/22 604/22P

Classification Explorer

Cited documents: WO9608196 A1, WO9412234 A1, WO06120674 A1, WO0000252 A1, US6852109 BB, US6800085 BB, US6702748 BA, US6685644 BB, US6685643 BA, US6673064 BA, US5813996 A, US5628719 A, US5569179 A, US5372144 A, US5234451 A, US4688569 A, US3570476 A, US2009209900 AA, US2005216044 AA, JP2004516902 T2, EP0934727 A1, DE4215901 A1, DE10223371 A1, DE10203371 A1,

Forward Citations: WO14183048, WO14105586, WO11084389, WO10042776, WO10042776, WO08107869, WO08065643, US9579494, US9549867, US9498237, US9415242, US9265847, US9168049, US9114181, US9113943, US9095685, US9044568, US9014786, US8936559, US8777963, US8343076, US8277469, US8251885, US2014277012, US2011208206, US2011208185, US2011152721, US2011071335, US2010217275, US2009192412, US2009131798, US2007021754, KR101394195, JP2016504171, GB2460444, EP2620109, EP2359764, CN105101894,

Abstract:
Source: US2009209900A The present invention is directed to a device and method for opening obstructed body internal passages and for sensing and characterizing tissues and substances being in contact with the device of the invention. In general, the device of the present invention comprises a catheter tube capable of inducing vibrations in a guidewire contained therein, wherein said vibrations of the guidewire are utilized for opening a passage through an occlusion. The in–vivo vibrations may be induced by means of a magnetic field actuating means (5) and a guidewire (2) comprising magnetic coupling means (3), or by means of transducers, which may be also used for the sensing.

0) US2016192962A – ATHERECTOMY CATHETERS DEVICES HAVING MULTI–CHAN...

125) Family number: 60056636 (US2016192962A) © PatBase

Title: ATHERECTOMY CATHETERS DEVICES HAVING MULTI–CHANNEL BUSHINGS

Priority: US20140936837P 20140206 US20160072272 20160316 WO2015US14613 20150205 US20160076568 20160321 US20160354842 20161117

Family:

Publication number	Publication date	Application number	Application date
CA2938972 AA	20160805	CA20152938972	20150205
CN106102608 A	20161109	CN201580014309	20150205
EP3102127 A1	20161214	EP20150746447	20150205
IN201617027458 A	20161230	IN201617027458	20160811
JP2017506100 T2	20170302	JP20160550604T	20150205
US2016192962 AA	20160707	US20160072272	20160316
US2016199092 AA	20160714	US20160076568	20160321
US2017065295 AA	20170309	US20160354842	20161117
US9498247 BB	20161122	US20160076568	20160321
US9592075 BB	20170314	US20160072272	20160316
WO15120146 A1	20150813	WO2015US14613	20150205

Probable Assignee: AVINGER INC

Assignee(s):(std)**:** AVINGER INC ; FERNANDEZ ANTHONY J ; LAM WENDY NGO ; NEWHAUSER RICHARD R ; SIMPSON JOHN B ; PATEL HIMANSHU N

Assignee(s): ZUNG MICHAEL

Inventor(s):(std)**:** FERNANDEZ ANTHONY J ; LAM WENDY NGO ; NEWHAUSER RICHARD R ; PATEL HIMANSHU N ; SIMPSON JOHN B ; ZUNG MICHAEL

Agent(s): BORDEN LADNER GERVAIS LLP; POTTER CLARKSON LLP; TANAKA MITSUO; YAMADA TAKUJI; SHAY GLENN LLP; KELLEHER KATHLEEN R 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

International class (IPC 8–9): A61B1/00 A61B1/05 A61B17/12 A61B17/22 A61B17/32 A61B17/3207 A61B5/00 A61B90/00 A61D1/02 A61M25/00 A61M25/10 (Advanced/Invention); A61B17/00 (Advanced/Non–invention)

CPC: A61M25/0043 A61M25/0082 A61M25/0074 A61B2017/00557 A61B17/320758 A61B2017/00738 A61B2017/22067 A61B2017/22071 A61B17/12031 A61B17/1204 A61B17/12109 A61B17/12136 A61B90/37 A61M25/1002 A61M25/1011 A61B5/0066 A61B5/0084 A61B2017/320791 A61B2090/3735 A61M25/0068 A61B17/320783 A61B17/320725

US class: 600/425 606/159

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US5190050 A, US5182291 A, US5178153 A, US5099850 A, US5085662 A, US5047040 A, US5041082 A, US5000185 A, US4926858 A, US4841977 A, US4771774 A, US4686982 A, US4654024 A, US4639091 A, US4621353 A, US4552554 A, US4527553 A, US4178935 A, US2016262839 AA, US2016262791 AA, US2016038030 AA, US2016029902 AA, US2016008025 AA, US2015320975 AA, US2015272615 AA, US2015208922 AA, US2015164530 AA, US2015141816 AA, US2015126856 AA, US2015099984 AA, US2014213893 AA, US2014005534 AA, US2013317519 AA, US2013296695 AA, US2013289392 AA, US2013138128 AA, US2013123615 AA, US2013096589 AA, US2013035692 AA, US2012289971 AA, US2012238869 AA, US2012123352 AA, US2012046679 AA, US2012004506 AA, US2011301625 AA, US2011270187 AA, US2011201924 AA, US2011144673 AA, US2011130777 AA, US2011118660 AA, US2011106004 AA, US2011092955 AA, US2011040238 AA, US2011023617 AA, US2011021926 AA, US2011004107 AA, US2010324472 AA, US2010317973 AA, US2010312263 AA, US2010305452 AA, US2010292721 AA, US2010292539 AA, US2010253949 AA, 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AA, US2007288036 AA, US2007276419 AA, US2007270647 AA, US2007255252 AA, US2007219484 AA, US2007196926 AA, US2007135712 AA, US2007106155 AA, US2007081166 AA, US2007078469 AA, US2007038173 AA, US2007038061 AA, US2007035855 AA, US2007015979 AA, US2007015969 AA, US2007010840 AA, US2006264741 AA, US2006252993 AA, US2006244973 AA, US2006241503 AA, US2006239982 AA, US2006236019 AA, US2006235366 AA, US2006229659 AA, US2006229646 AA, US2006173475 AA, US2006135870 AA, US2006109478 AA, US2006084911 AA, US2006064009 AA, US2006046235 AA, US2006032508 AA, US2005251116 AA, US2005222663 AA, US2005222519 AA, US2005201662 AA, US2005192496 AA, US2005187571 AA, US2005182295 AA, US2005177068 AA, US2005159731 AA, US2005159712 AA, US2005154407 AA, US2005141843 AA, US2005105097 AA, US2005085721 AA, US2005085708 AA, US2005054947 AA, US2005043614 AA, US2005020925 AA, US2004260236 AA, US2004254599 AA, US2004243162 AA, US2004236312 AA, US2004230213 AA, US2004230212 AA, US2004220519 AA, US2004202418 AA, US2004186368 AA, US2004181249 AA, US2004167554 AA, US2004167553 AA, US2004147934 AA,

US2004092915 AA, US2004082850 AA, US2004057667 AA, US2004039371 AA, US2004002650 AA, US2003125758 AA, US2003125757 AA, US2003125756 AA, US2003120295 AA, US2003097044 AA, US2003095248 AA, US2003045835 AA, US2003032880 AA, US2003028100 AA, US2002158547 AA, US2002115931 AA, US2002111548 AA, US2002082626 AA, US2002019644 AA, US2001020126 AA, RU2218191 C2, RU2185859 C2, JP7308393 A2, JP6027343 A2, JP2009509690 T2, JP2009078150 A2, JP2009014751 A2, JP2008253492 A2, JP2008183208 A2, JP2008175698 A2, JP2008145376 A2, JP2008128708 A2, JP2008023627, JP2007225349 A2, JP2007083057 A2, JP2007083053 A2, JP2006526790, JP2006326157 A2, JP2006313158 A2, JP2006288775 A2, JP2005533533 T2, JP2005249704 A2, JP2005114473 A2, JP2004516073, JP2004509695 T2, JP2002214127 A2, EP2353526 B1, EP1859732 A1, EP0808638 A1, EP0347098 A2,

DE202006018883 U1

CN1947652 A, CN1875242 A, CN101601581 A,

Forward Citations: US9642646, US9592075, US9572492, US9557156, US9498247, US2016227350,

Abstract:
Source: US2016192962A Atherectomy catheters and methods of using them are described herein. In particular, described herein are optical coherence tomography (OCT) catheters that may include a distal tip that can be deflected away from the long axis of the device using a multi−channel bushing. The bushing may include at a hinge point that is offset (e.g., located on a side of the elongate body near the distal end of the elongate body) and a rotatable cutter near an imaging assembly that can be driven against the wall with a high mechanical advantage.

0) US2003097172A – NARROWING IMPLANT

126) Family number: 15957708 (US2003097172A) © PatBase

Title: NARROWING IMPLANT

Priority:

AU20010246781 20010327
CA20022769574 20021003
IL20020161278 20021003
IL20020153753 20021230
US20000534968 20000327
US20050170748 20050628
US20090603518 20091021
WO2002IL00805 20021003
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US20140506403 20141003
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IL20020152366 20021017
US20020239980 20020926
US20050186745 20050721
US20040491976 20041008
US20100789235 20100527
US20050524077 20050921
US20130026816 20130913
WO2001IL00284 20020927

Family:

Publication number	Publication date	Application number	Application date
AT426375 E	20090415	AT20030813970T	20031125
AT460141 E	20100315	AT20010919723T	20010327
AT471124 E	20100715	AT20020772791T	20021003
AU2001246781 AA	20011008	AU20010246781	20010327
AU2001246781 BB	20060309	AU20010246781	20010327
AU200146781 A5	20011008	AU20010046781	20010327
AU2002337598 AA	20030414	AU20020337598	20021003
AU2003219503 AA	20040225	AU20030219503	20030410
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Probable Assignee: NEOVASC MEDICAL LTD

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Inventor(s): BEN MUVHAR SHMUELIL ; ILAN SHALEV ; DARVISH NISSIMIL ; NISIM DARVISH ; SHALEV IIANIL ; SHALEV ILANIL ; TSEHORI JONATHANIL

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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 KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ 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

International class (IPC 8–9): A61B17/00 A61B17/12 A61F A61F2/01 A61F2/02 A61F2/06 A61F2/82 A61F2/84 A61F2/848 A61F2/86 A61F2/88 A61F2/90 A61F2/91 A61F2/915 A61F2/95 A61F2/958 A61L27/00 A61M25/088 A61M25/10 A61M29/00 A61M29/02 (Advanced/Invention);
A61F2/00 A61F2/06 A61F2/24 A61F2/82 A61F2/84 A61F2/915 A61F2/95 A61F2/958 A61M25/10 A61M29/02 (Advanced/Non–invention);
A61B17/00 A61F2/06 A61F2/82 A61M25/10 A61M29/00 A61M29/02 (Core/Invention);
A61F2/00 A61M25/10 A61M29/02 (Core/Non–invention);
A61B A61F (Subclass/Invention)

International class (IPC 1–7): A61B A61B17/00 A61F2/06 A61M29/00 A61M29/02

CPC: A61B2017/1205 A61F2/01 A61F2/2475 A61F2/88 A61F2002/018 A61F2230/0006 A61F2230/005 A61F2230/0069 A61M25/1002 A61B17/12022 A61B17/12036 A61B17/12131 A61B17/12172 A61F2/958 A61F2002/91558 A61F2002/9511 A61F2250/0039 A61F2/915 A61F2002/068 A61F2002/91525 A61F2002/91533 A61F2002/9155 A61F2002/91575 A61F2250/0018 A61F2/848 A61F2/91 A61F2210/0076 A61F2220/0016 A61F2220/0075 A61F2230/0078 A61F2230/008 A61B17/12109 A61F2/90

European class: A61B17/12P A61B17/12P1P A61B17/12P7 A61B17/12P7W1 A61F2/02 A61F2/06S6C A61F2/06S6N2 A61F2/88 A61F2/91 A61F2/915 A61F2/958 K61B17/12P K61B17/12P2 K61F2/01 K61F2/01N K61F2/06M K61F2/06S2B K61F2/24 K61F2/24V K61F2/915E K61F2/915F K61F2/915G K61F2/915G2 K61F2/915G6 K61F2/958 K61F2/95D2 K61F250/00N19 K61F250/00N2 K61M25/10A

US class: 1/1 128/898 128/898S 606/194 606/194S 606/198 606/200 606/200S 623/1.11 623/1.12 623/1.120P 623/1.15 623/1.150P 623/1.150S 623/1.24 623/1.240P 623/1.240S 623/1.3 623/1.300P 623/1.300S 623/1.31 623/1.310P 623/11.5

Classification Explorer

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Abstract:
Source: US2003097172A A reducer implant for insertion in a blood vessel, for reducing an inner diameter of said vessel and flow therethrough, having at least one narrowed section having a first diameter; and at least one flared section having a diameter substantially greater than said first diameter. Optionally, the reducer is formed of a material and has a geometry that does not cause coagulation of blood in its vicinity.

0) US2014277099A – VASO–OCCLUSIVE DEVICES INCLUDING A FRICTION ELE...

127) Family number: 54554500 (US2014277099A) © PatBase

Title: VASO–OCCLUSIVE DEVICES INCLUDING A FRICTION ELEMENT AND METHODS OF USE

Priority: US20120597029P 20120209 US20120721367P 20121101 US20140289567 20140528 WO2013US00033 20130211 US20150684189 20150410

Family:

Publication number	Publication date	Application number	Application date
US2014277099 AA	20140918	US20140289567	20140528
US2015216530 AA	20150806	US20150684189	20150410
US9011482 BB	20150421	US20140289567	20140528
WO13119332 A2	20130815	WO2013US00033	20130211
WO13119332 A3	20131003	WO2013US00033	20130211

Probable Assignee: STRYKER EUROPEAN HOLDINGS I LLC

Assignee(s):(std)**:** GREENHALGH E SKOTT ; STOUT MEDICAL GROUP LP ; WALLACE MICHAEL P ; TW MEDICAL TECHNOLOGIES LLC

Assignee(s): STRYKER EUROPEAN HOLDINGS I LLC ; STRYKER EUROPEAN HOLDINGS I LLC IN ITS CAPACITY SOLE GENERAL PARTNER OF STRYKER EUROPEAN TECHNOLOGIES CV AS

Inventor(s):(std)**:** GREENHALGH E SKOTT ; WALLACE MICHAEL P

Agent(s): SHAY GLENN LLP; LEVINE DAVID A 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 IS IT JP KE KG KM KN KP KR KZ LA LC 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 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

International class (IPC 8–9)**:** A61B17/03 A61B17/12 A61M29/00 A61M31/00 (Advanced/Invention); A61B17/00 (Advanced/Non–invention)

CPC: A61B17/12113 A61B2017/1205 A61B17/12031 A61B17/1214 A61B17/1215 A61B17/12163 A61B17/12168 A61B2017/00004 A61B2017/00367 A61B2017/00526 A61B2017/00884 A61B2017/00893 A61B2017/12054 A61B2017/12063 A61B2017/12068 A61B2017/12095

US class: 606/191 606/200

Classification Explorer

Cited documents: WO9939646 A1, WO13119332 A2, WO07123638 A1, WO07041624 A1, WO04045425 A1, WO03082363 A1, USRE43311 E, US8603128 BB, US8486104 BB, US8444668 BB, US8361138 BB, US8182506 BB, US8172862 BB, US8016852 BB, US8002789 BB, US7879062 BB, US7828816 BB, US7749242 BB, US7323001 BB, US7128752 BB, US7066946 BB, US6994689 BA, US6984240 BA, US6872218 BB, US6866677 BB, US6860893 BB, US6682546 BB, US6660020 BB, US6592617 BB, US6589256 BB, US6551340 BA, US6475227 BB, US6458119 BA, US6361545 BA, US6350270 BA, US6287318 BA, US6254592 BA, US6193728 BA, US6187027 BA, US6165178 A, US6096052 A, US6066158 A, US6024754 A, US6019786 A, US5976162 A, US5964797 A, US5891191 A, US5888201 A, US5792157 A, US5690667 A, US5639277 A, US5536274 A, US5423849 A, US5382259 A, US5304194 A, US5217484 A, US5186992 A, US4994069 A, US4870887 A, US4820298 A, US4754685 A, US2013267992 AA, US2013253572 AA, US2011213405 AA, US2010152766 AA, US2010063578 AA, US2009297582 AA, US2009266366 AA, US2009210047 AA, US2009105748 AA, US2008109057 AA, US2008097401 AA, US2006116709 AA, US2006030876 AA, US2006009799 AA, US2005277978 AA, US2005222605 AA, US2004098023 AA, US2003093111 AA,

Forward Citations: WO16182949, WO16118420, WO15184075, US9259329, US9060777, US9011482, US8709042, US2015297240, EP3148481, EP3148481, EP2984996, AU2015207971,

Abstract:
Source: US2014277099A Vaso−occlusive apparatuses, including implants, and methods of using them to treat aneurysms. The vaso−occlusive implants described herein include one or more soft and expandable braided member coupled to a pushable member such as a coil that maybe inserted and retrieved from within an aneurism using a delivery catheter as well as a friction element between the soft braided member and the coil. The friction element allows the relatively soft and elongate implant to be pushed out of a cannula without binding up within the cannula.

128) Family number: 15775311 (US2003164168A) © PatBase

Title: BRONCHIOPULMONARY OCCULSION DEVICES AND LUNG VOLUME REDUCTION METHODS

Priority: NZ20000504621 20000518 WO2001NZ00092 20010518

Family:

Publication number	Publication date	Application number	Application date
AU2001260840 AA	20011126	AU20010260840	20010518
AU2001260840 BB	20050811	AU20010260840	20010518
AU200160840 A5	20011126	AU20010060840	20010518
CA2408923 AA	20021113	CA20012408923	20010518
EP1284663 A1	20030226	EP20010934679	20010518
EP1284663 A4	20070418	EP20010934679	20010518
JP2003533266 T2	20031111	JP20010583641T	20010518
JP3793090 B2	20060705	JP20010583641T	20010518
US2003164168 AA	20030904	US20030275995	20030407
WO0187170 A1	20011122	WO2001NZ00092	20010518

Probable Assignee: PULMONX

Assignee(s):(std)**:** EMPHASYS MEDICAL INC ; SHAW DAVID PETER ; SHAW MEDICAL INV S LTD ; SHAW MEDICAL INVENTIONS LTD

Assignee(s): SHAW MEDICAL INVENTIONS LIMITED ; PULMONX

Inventor(s):(std)**:** SHAW DAVID PETER

Inventor(s): DAVID PETER SHAW

Agent(s): SPRUSON AND FERGUSON; SMART AND BIGGAR

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN 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 NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

International class (IPC 8–9): A61B1/267 A61B1/273 A61B17/00 A61B17/12 A61B17/24 A61F2/04 A61F2/20 A61M16/00 (Advanced/Invention) ; A61B1/267 A61B1/273 A61B17/00 A61B17/12 (Core/Invention)

International class (IPC 1–7): A61B1/267 A61B1/273 A61B17/00 A61B17/24 A61M16/00

CPC: A61B17/12022 A61B17/12104 A61B17/12172 A61F2002/043

European class: A61B17/12P A61B17/12P5A A61B17/12P7W1 K61F2/04C

US class: 128/200.24 128/200.240P

Classification Explorer

Cited documents: WO9848706 A1, WO9727897 A1, WO9713463 A1, WO0113839 A1, WO0102042 A1, US7165548 BB, US7128747 BB, US7100616 BB, US7011094 BB, US6679264 BA, US5649906 A, US5645519 A, US4990151 A, US4947827 A, US2006200076 AA, SU852321, RU2140211, AU7884000 A1,

Forward Citations: WO05032335, WO04080347, WO04010845, WO04010845, USRE45921, US9655602, US9622752, US9615962, US9492148, US9326873, US9289198, US9238113, US9211181, US9198669, US8986336, US8985116, US8974527, US8974484, US8956319, US8926654, US8926647, US8888812, US8876791, US8875711, US8852229, US8795241, US8707955, US8667973, US8647392, US8579934, US8474460, US8454708, US8444690, US8425455, US8414655, US8409248, US8388682, US8365736, US8357139, US8302607, US8302606, US8291909, US8281557, US8257381, US8251067, US8240309, US8235046, US8215308, US8206684, US8177805, US8136230, US8088144, US8083768, US8079368, US8075587, US8061357, US8057510, US8043301, US8021385, US8020700,

US7992564, US7992563, US7987852, US7942931, US7896887, US7887585, US7875048, US7856979, US7854228, US7842061, US7814912, US7806120, US7798148, US7798147, US7771472, US7757692, US7753933, US7735492, US7735491, US7717115, US7691151, US7662181, US7533671, US7506649, US7434578, US7412977, US7334581, US7276077, US7165548, US7128747, US7100616, US7036509, US7033387, US7011094, US6941950, US6929637, US6904909, US6901927, US6840243, US6722360, US6694979, US6645205, US6632243, US2005016530, EP3095414, EP2353557, EP1670363, EP1524942, EP1494632, EP1424970,

Abstract:
Source: US2003164168A Lung volume reduction is performed by the placement of a device (2) into a branch of the airway (34) to prevent air from entering that portion of lung. This will result in adsorption atelectasis of the distal portion of lung. The physiological response in this portion of lung is hypoxic vaso−constriction. The net effect is for a portion of lung to be functionally removed, i.e. a selected portion of lung is removed from both the circulation and ventilation. The build up of secretions is accommodated by using a valve (5, 15, 29) in the obstructive device, the valve opening upon coughing etc.

129) Family number: 28148986 (US2001039426A) © PatBase

Title: TRANSLUMINAL METHODS AND DEVICES FOR CLOSING, FORMING ATTACHMENTS TO, AND/OR FORMING ANASTOMOTIC JUNCTIONS IN, LUMINAL ANATOMICAL STRUCTURES

Priority: US19970896307 19970628 US20000543251 20000405 US20010908337 20010718 US20020259210 20020927 WO1998US13342 19980625

Family:

Publication number	Publication date	Application number	Application date
AT492221 E	20110115	AT19980931643T	19980625
AU199881712 A1	19990517	AU19980081712	19980625
CA2295133 AA	19991224	CA19982295133	19980625
DE69842068 D1	20110203	DE19986042068	19980625
EP1047341 A1	20001102	EP19980931643	19980625
EP1047341 A4	20060201	EP19980931643	19980625
EP1047341 B1	20101222	EP19980931643	19980625
IL133670 A0	20010430	IL19980133670	19980625
JP2002512550 T2	20020423	JP19990505072T	19980625
JP4097045 B2	20080604	JP19990505072T	19980625
US2001039426 AA	20011108	US20010908337	20010718
US6071292 A	20000606	US19970896307	19970628
US6287317 BA	20010911	US20000543251	20000405
US6491707 BB	20021210	US20010908337	20010718
US7056325 BA	20060606	US20020259210	20020927
WO9921490 A1	19990506	WO1998US13342	19980625

Probable Assignee: MEDTRONIC VASCULAR INC

Assignee(s):(std)**:** FLAHERTY CHRISTOPHER J ; GARIBOTTO JOHN THOMAS ; MACHOLD TIMOTHY R ; MAKOWER JOSHUA ; MEDTRONIC VASCULAR INC ; TRANS VASCULAR INC ; TRANSVASCULAR INC ; WHITT JASON BRIAN

Assignee(s): TRANSVASCULAR INC A CALIFORNIA CORP

Inventor(s):(std)**:** CHRISTOPHER J FLAHERTY ; FLAHERTY CHRISTOPHER ; FLAHERTY J CHRISTOPHER ; GARIBOTTO JOHN ; JASON BRIAN WHITT ; JOHN THOMAS GARIBOTTO ; JOSHUA MAKOWER ; MACHOLD TIMOTHY ; TIMOTHY R MACHOLD ; WHITT JASON ; WHITT JASON BRIAN ; MAKOWER JOSHUA ; MACHOLD TIMOTHY R ; GARIBOTTO JOHN THOMAS ; FLAHERTY CHRISTOPHER J

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; GOWLING LAFLEUR HENDERSON LLP; WHITAKER IAIN MARK

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GE GH GM GN GR GW HU ID IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW

International class (IPC 8–9): A61B17/00 A61B17/04 A61B17/06 A61B17/064 A61B17/08 A61B17/11 A61B17/12 (Advanced/Invention); A61B17/00 A61B17/064 (Advanced/Non–invention); A61B17/03 A61B17/04 A61B17/06 A61B17/064 A61B17/12 (Core/Invention); A61B17/00 A61B17/064 (Core/Non–invention)

International class (IPC 1–7): A61B17/04 A61B17/06 A61B17/064 A61B17/08 A61B17/11 A61B17/12

CPC: A61B17/0469 A61B2017/00946 A61B2017/1139 A61B17/11 A61B17/0401 A61B17/0482 A61B17/06 A61B17/064 A61B17/12 A61B17/12013 A61B2017/00292 A61B2017/00557 A61B2017/0409 A61B2017/0419 A61B2017/0454 A61B2017/0458 A61B2017/0464 A61B2017/06047 A61B2017/1107 A61B2017/1135

European class:

A61B17/04A A61B17/04E A61B17/06 A61B17/064 A61B17/11 A61B17/12 K61B17/00E3 K61B17/00N8 K61B17/00S32 K61B17/04A21 K61B17/04A40C K61B17/04A40L K61B17/04A5 K61B17/04A50 K61B17/04G K61B17/064 K61B17/06A31 K61B17/11B K61B17/11P K61B17/11Q K61B17/12L2

US class: 606/139 606/144 606/151 606/153 606/154 606/157 606/158

Classification Explorer

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Forward Citations: WO16187262, WO16061046, WO13069436, WO13029669, WO12118894, WO11069863, WO11069862, WO09126746, WO07075981, WO07075981, WO06082493, WO06034484, WO06034484, WO05081817, WO05081817, WO05070307, WO05020802, WO05020802, WO04000129, WO04000129, WO03096910, WO03063691, WO03063691, WO03022160, WO0213702, WO0202163, WO0202163, USRE45426, US9669195, US9669148, US9662479, US9655602, US9649157, US9642994, US9642619, US9629643, US9622843, US9615909, US9603730, US9592044, US9585651, US9566181, US9566070, US9561127, US9554887, US9549739, US9549725, US9545505, US9545322, US9545289, US9545263, US9545251, US9545247, US9526603, US9522047, US9522016, US9510817, US9504465, US9504461, US9504457, US9499927, US9498893, US9498363, US9498318, US9498203, US9492160, US9492148, US9486203, US9474562, US9474517, US9468743, US9452015, US9451960, US9446222, US9445898, US9445883, US9445868, US9439728, US9439710, US9439643, US9433433, US9421024, US9421004, US9402711, US9402646, US9402616, US9393007, US9387311, US9387063, US9381335, US9381041, US9381027, US9364642, US9364354, US9364259, US9364212, US9358112, US9358111, US9357994, US9351821, US9345476, US9345470, US9339267, US9339265, US9326842, US9326759, US9320874, US9320511, US9314362, US9314235, US9308356, US9308068, US9308019, US9307991, US9301777, US9295461, US9289198, US9282984, US9265520, US9259267, US9259218, US9248580, US9242026, US9241695, US9237897, US9226746, US9220891, US9220494, US9216014, US9204956, US9199067, US9186268, US9173759, US9173653, US9161749, US9155532, US9155528, US9149266, US9149263, US9144484, US9138562, US9138230, US9131999, US9125647, US9107658, US9101453, US9089313, US9089262, US9084603, US9078648, US9078630, US9072603, US9060802, US9050168, US9044225, US9039721, US9039649, US9034001, US9028527, US9028511, US9023094, US9017373, US9017367, US9011362, US9005242, US9005225, US9005220, US8998933, US8992595, US8992570, US8992562, US8992556, US8979923, US8979882, US8961560, US8961540, US8961494, US8961423, US8956419, US8956375, US8956318, US8951286, US8951285, US8951276, US8945158, US8945152, US8945098, US8942829, US8940001, US8939996, US8939902, US8936609, US8932328, US8926654, US8926638, US8926634, US8916077, US8915943, US8911473, US8911461, US8906041, US8900252, US8900250, US8888812, US8888799, US8888798, US8882785, US8876865, US8876842, US8875607, US8870916, US8870913, US8868214, US8864822, US8864814, US8864777, US8858612, US8852232, US8852229, US8845723, US8845658, US8834492, US8828049, US8828025, US8821540, US8814947, US8808309, US8801650, US8795332, US8795329, US8795166, US8794243, US8793863, US8790356, US8790291, US8784448, US8784439, US8784437, US8784306, US8781604, US8777992, US8777989, US8777988, US8777987, US8777985, US8777967, US8771313, US8764848, US8764796, US8764776, US8764775, US8764771, US8758403, US8758401, US8758375, US8758366, US8753362, US8747483, US8747437, US8747386, US8740937, US8734486, US8734485, US8734468, US8728121, US8721681, US8721664, US8721657, US8715304, US8715298, US8715239, US8709074, US8709065, US8709028, US8709024, US8702753, US8690914, US8690906, US8690819, US8679158, US8679049, US8668709, US8668705, US8668704, US8663309, US8663257, US8663243, US8663236, US8652170, US8647368, US8647293, US8641732, US8641630, US8636765, US8636756, US8636712, US8632585, US8632556, US8628556, US8628547, US8628542, US8623051, US8617196, US8617096, US8615856, US8613754, US8613751, US8613749, US8603106, US8597226, US8590761, US8585733, US8579936, US8579934, US8574264, US8574261, US8568447, US8568431, US8556954, US8556925, US8551139, US8551135, US8551126, US8545418, US8529590, US8529584, US8529583, US8523886, US8518064, US8518060, US8512375, US8512374, US8512360, US8512310, US8506519, US8500760,

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Abstract:
Source: US2001039426A Methods and apparatus for passing attachment apparatus (e.g., connector devices, staples, etc.) or connector material (e.g., suture thread, wire, cord, filament, monofilament, etc.) into or through the wall of a luminal anatomical structure (e.g., a blood vessel or other anatomical conduit) for the purpose of; i) closing the lumen of the anatomical structure, ii) forming an anastomotic junction between separate anatomical structures (or between approximated segments of the same anatomical structure), and/or iii) attaching an article (e.g., an endoluminal, extraluminal or transluminal graft) or other apparatus to the wall of the anatomical structure.

130) Family number: 30377656 (US2001037808A) © PatBase

Title: METHODS AND DEVICES FOR USE IN PERFORMING PULMONARY PROCEDURES

Priority:

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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 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 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

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Abstract:
Source: US2001037808A 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.

0) US2006122638A – ANCHORING SCREW DEVICE

131) Family number: 31312114 (US2006122638A) © PatBase

Title: ANCHORING SCREW DEVICE

Priority: BE20030000074 20030428 EP20030816760 20030707 US20060554947 20060202 US20090556114 20090909 US20030554947 20030707 EP20030816761 20030722 WO2003BE00074 20030428 WO2003BE00126 20030722 WO2003BE00120 20030707 US20140161907 20140123

Family:

Publication number	Publication date	Application number	Application date
AU2003254421 AA	20041123	AU20030254421	20030722
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CA2523803 C	20120103	CA20032523803	20030722
CA2523871 AA	20041111	CA20032523871	20030707
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Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 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

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CPC: A61M25/04 A61B17/0057 A61B17/064 A61B17/11 A61B17/1114 A61B17/3415 A61B17/3423 A61B2017/00004 A61B2017/00867 A61B2017/0648 A61B2017/0649 A61B2017/1107 A61B2017/1135 A61B2017/1139 A61B2017/3488 A61M25/02 A61M39/0208 A61M39/04 A61M39/06 A61M2025/0286

European class: A61B17/00P A61B17/064 A61B17/11 A61B17/34E A61M25/02 A61M25/04 K61B17/00A K61B17/00S12 K61B17/064T2 K61B17/064V K61B17/11B K61B17/11D K61B17/11P K61B17/11Q K61B17/34G4A K61B17/34R2B4 K61M25/02H K61M39/02B K61M39/04 K61M39/06

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Classification Explorer

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Forward Citations: WO12096563, WO12036914, WO08046572, US9579188, US9545263, US9532773, US9320875, US9308080, US9308015, US9155531, US9138228, US9125648, US9101765, US9089329, US9044236, US8992612, US8979865, US8934975,

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Abstract:
Source: US2006122638A The present invention, the ASD, is a mechanical device for anchoring hollow tube–like structures in the human body, such as blood vessels and ureters. It facilates positioning needles or catheters in blood vessels and it prevents those from dropping out of the vessel or from "wandering off" in the vessel. The ASD can be used in every interventional medical situation for diagnostic or therapeutic purposes. The ASD is very easy to fix onto the vessel wall. Screwing is a fast technique saving operating time and requiring only basic microsurgical skills. The manufacturing is easy. It should be understood that the foregoing is illustrative and nor limiting, and that modifications may be made by those skilled in the art, without departing from the scope of the invention.

132) Family number: 44432240 (US2010044102A) © PatBase

Title: METHODS AND APPARATUS FOR REMOVAL AND CONTROL OF MATERIAL IN LASER DRILLING OF A BOREHOLE

Priority:

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Agent(s): SPRUSON AND FERGUSON; CASSAN MACLEAN; BUNGARTZ KLAUS PETER; TERSTEEGEN FELIX; SABA AND CO TMP; ITOH SHIGERU; BRINKS HOFER GILSON AND LIONE; FORO ENERGY/BHGL; FORO ENERGY BHGL; GLEN; GLEN P; STEPTOE AND JOHNSON LLP; STEPTOE AND JOHNSON; BRIAN; STEPTOE AND JOHNSON LLC; BELVIS GLEN P; FREEMAN JOHN C; BELVIS GLEN P 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

International class (IPC 8–9): B01J19/12 B08B7/00 B08B9/02 B08B9/023 B08B9/027 B08B9/055 B23K26/00 B23K26/04 B23K26/06 B23K26/064 B23K26/073 B23K26/08 B23K26/10 B23K26/12 B23K26/122 B23K26/14 B23K26/16 B23K26/24 B23K26/352 B23K26/36 B23K26/38 B23K26/382 B23K26/40 B23K26/402 B23P11/00 B63B17/00 B63B35/28 B63C11/40 B63C11/44 B63C11/48 B63G8/00 B63G8/08 B65H55/00 B65H59/00 E01C23/08 E01C23/12 E02B17/00 E02D17/00 E21B10/00 E21B10/50 E21B10/54 E21B10/60 E21B17/00 E21B17/20 E21B19/00 E21B19/22 E21B21/00 E21B21/08 E21B21/10 E21B21/14 E21B21/16 E21B23/00 E21B23/14 E21B29/00 E21B29/02 E21B33/00 E21B33/06 E21B33/064 E21B33/12 E21B33/13 E21B37/00 E21B4/02 E21B4/04 E21B41/00 E21B41/04 E21B43/00 E21B43/11 E21B43/114 E21B43/119 E21B43/26 E21B43/267 E21B44/00 E21B47/00 E21B47/113 E21B47/12 E21B7/00 E21B7/14 E21B7/15 E21B7/16 E21C35/00 E21C37/16 E21C37/18 E21C41/00 E21D9/10 F21V15/01 F21V15/06 F21V29/00 F21V8/00 G01J1/04 G01M11/00 G01M5/00 G02B26/08 G02B27/14 G02B27/20 G02B6/02 G02B6/32 G02B6/36 G02B6/38 G02B6/42 G02B6/44 H01J27/24 H01J40/14 H01L21/00 H01L31/00 H01L31/055 H01S3/00 H01S3/04 H01S3/30 H01S5/024 H01S5/40 H02G1/08 H04B10/079 (Advanced/Invention); B08B7/00 B63B19/00 B63B21/00 B63B35/00 E02B17/00 E21B15/00 E21B43/00 E21B43/116 E21B49/00 E21B7/04 E21B7/15 G02B6/32 G02B6/38 G02B6/42 G02B6/50 (Advanced/Non–invention); B65H55/00 E21B17/00 E21B7/00 E21B7/14 G02B6/44 (Core/Invention)

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European class: B08B7/00S2 B23K26/00M B23K26/06C B23K26/06C3 B23K26/06C5 B23K26/10 B23K26/10R1 B23K26/12B B23K26/12F B23K26/14D B23K26/14N1 B23K26/38 B23K26/40B7 B63G8/00B E21B10/60 E21B17/20B E21B21/08 E21B21/12 E21B21/16 E21B4/18 E21B7/14 E21B7/15 G02B6/44C1 G02B6/44C6 G02B6/44C7A H04B10/807 L23K203/10 S02B6/42H S02B6/44C10 S02B6/44C5B S02B6/44C6 S02B6/44C7A S02B6/44C7F

US class: 1/1 114/26 114/312 114/313 114/337 134/1.1 166/242.2 166/250.1 166/280.1 166/288 166/297 166/304 166/361 166/376 166/384 166/385 166/55.1 166/55.2 166/65.1 166/65.100S 166/66 166/77.1 166/77.2 175/107 175/11 175/15 175/15P 175/16 175/162

175/16P 175/16S 175/40 175/424 175/57 175/65 175/65S 175/92 175/92S 219/121.61 219/121.67 219/121.670S 219/121.7 219/121.72 219/121.720P 219/121.84 219/60R 219/61 242/159 242/159S 250/215 250/227.11 250/492.1 250/492.100P 254/134.3FT 254/134.3R 254/134.4 29/428 29/428S 299/14 299/29 362/259 362/317 362/553 362/553S 372/14 372/4 385/100 385/102 385/104 385/109 385/109P 385/111 385/12 385/13 385/134 385/88 385/89 385/92 385/93 385/94

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US2003056990 AA, US2003053783 AA, US2003053738 AA, US2003052256 AA, US2003039457 AA, US20030145991, US2003007837 AA, US2003000741 AA, US2002189806 AA, US2002185474 AA, US2002160688 AA, US2002050637 AA, US2002039465 AA, US2002029909 AA, US2002029908 AA, US2002028287 AA, US2002020692 AA, US2002007945 AA, US0267220, US0185843, JP9242453 A2, JP9072738 A2, JP8199984 A2, JP7328785 A2, JP62011804 A2, JP53078901 A2, JP5118185 A2, JP5118185, JP5033574 A2, JP3144988 B2, JP2012500350 T2, JP2012500350, JP2009175545 A2, JP2008242012 A2, JP2007120048 A2, JP2006509253 T2, JP2006509253, JP2006307481 A2, JP2006039147 A2, JP2004283837 A2, JP2004108132 A2, JP2003239673 A2, JP2002296189 A2, JP2002296189, JP2001208924 A2, JP2001154070 A2, JP2000334590 A2, JP1993118185, JP1993033574, JP1987011804, JP09072738, JP05118185, GB2420358 B2, GB2420358 A1, GB2255199, GB1284454 A, FR2716924 A1, EP1096285 A2, EP0950170 B1, EP0950170, EP0619508, EP0565287 A1, EP0515983 A1, EP0295045 A2, EP0151909, DE4429022 A1, CN101405474, CA2576756 AA,

Forward Citations: WO17067632, WO17048225, WO17042688, WO17015116, WO16199514, WO16161283, WO16148830, WO16141202, WO16123166, WO16108848, WO16090229, WO16085490, WO16067272, WO15175025, WO15136453, WO15089458, WO15088553, WO15087209, WO15084988, WO15076778, WO15057125, WO15041700, WO15037985, WO15009424, WO15004532, WO15001377, WO14197314, WO14149114, WO14149114, WO14144981, WO14144591, WO14123538, WO14100589, WO14089544, WO14089544, WO14086911, WO14086911, WO14078663, WO14078663, WO14078179, WO14070864, WO14036430, WO14036430, WO13162551, WO13130302, WO13113002, WO13113002, WO13086227, WO13081867, WO13051611, WO13049625, WO13023020, WO13012684, WO12167102, WO12161797, WO12161789, WO12148546, WO12116284, WO12116189, WO12116189, WO12116153, WO12116148, WO12102931, WO12096966, WO12096966, WO12096785, WO12031009, WO12024285, WO12012436, WO12012436, US9669541, US9669509, US9669492, US9664869, US9664012, US9662782, US9638877, US9630260, US9624955, US9566443, US9562395, US9561547, US9559463, US9551839, US9545692, US9535211, US9534453, US9534447, US9512679, US9506317, US9494739, US9453373, US9429742, US9419388, US9414498, US9410376, US9409255, US9399269, US9383520, US9371693, US9370840, US9366827, US9360643, US9360631, US9359848, US9347271, US9335112, US9334031, US9328603, US9327810, US9322234, US9321514, US9316053, US9310248, US9291017, US9284783, US9274292, US9267330, US9255849, US9252559, US9250390, US9249656, US9248524, US9244235, US9242309, US9240655, US9223093, US9217291, US9207405, US9200490, US9195006, US9194183, US9188746, US9181754, US9168612, US9156121, US9138786, US9132495, US9116296, US9090315, US9089928, US9085050, US9080425, US9074422, US9048632, US9027668, US8997894, US8983259, US8967298, US8936108, US8908266, US8879876, US8875807, US8869914, US8869887, US8837541, US8826973, US8820434, US8783361, US8783360, US8760644, US8757292, US8746369, US8726987, US8720584, US8701794, US8684088, US8675694, US8664563, US8662160, US8636085, US8627901, US8571368, US8567523, US8511401, US8503070, US8424617, US8380024, US2017136553, US2017031111, US2017025915, US2016352090, US2016349403, US2016341916, US2016299304, US2016215578, US2016186497, US2016167168, US2016153240, US2016128387, US2016111183, US2016072248, US2016043504, US2015357868, US2015352671, US2015349473, US2015307174, US2015273696, US2015256034, US2015253513, US2015235742, US2015233183, US2015204161, US2015176356, US2015165618, US2015165559, US2015155074, US2015153521, US2015129307, US2015129203, US2015090175, US2015083698, US2015068804, US2015041149, US2015034144, US2015027692, US2015003496, US2014339412, US2014332275, US2014321236, US2014305635, US2014299375, US2014273610, US2014263220, US2014248025, US2014238964, US2014231398, US2014231394, US2014231085, US2014204387, US2014190751, US2014158425, US2014147077, US2014126330, US2014112699, US2014090846, US2014090666, US2014041940, US2013301993, US2013228557, US2013226460, US2013175090, US2013140288, US2013140039, US2013112478, US2013032404, US2013032398, US2013026144, US2013011102, US2013008669, US2012300057, US2012273269, US2012267168, US2012266803, US2012255933, US2012255775, US2012255774, US2012248078, US2012224809, US2012195334, US2012080229, US2012068086, US2012067643, US2011220409, US2011205652, US2011198092, US2010215326, US2010044106, US2010044105, US2010044104, US2010044103, US2010044102, US2009266871, JP6025917, JP2015500571, JP2015017498, JP2014508032, JP2014503365, JP2013542352, JP2013092036, GB2538866, GB2533744, GB2524911, GB2517223, EP3173819, EP3069817, EP3020501, EP2994610, EP2991799, EP2929602, EP2890859, EP2820466, DE102013210297, CN105983784, CN105765154, CN105598577, CN105041209, CN104932454, CN104802971, CN104691727, CN104360402, CN103842612, CN103827434, CN103502564, CN103135169, CN102322216, AU2014253495, AU2012346341, AU2012259435,

Abstract:
Source: US2010044102A There is provided a system, apparatus and methods for removal of material for the path of a laser beam during laser drilling of a borehole and for removal of displaced borehole material from the borehole during laser drilling. In particular, there are provided paths, dynamics and parameters of fluid flows, and apparatus for obtaining such, for use in conjunction with a laser bottom hole assembly.

0) US4813938A – CATHETER INTRODUCTION SYRINGE

133) Family number: 3297224 (US4813938A) © PatBase

Title: Catheter introduction syringe

Priority: US19870097758 19870917 US19890326171 19890320 WO1990US01346 19900319 US19900491572 19900315

Family:

Publication number	Publication date	Application number	Application date
AU199054349 A1	19901022	AU19900054349	19900319
AU638986 B2	19930715	AU19900054349	19900319
CA2049044 AA	19910910	CA19902049044	19900319
CA2049044 C	20000905	CA19902049044	19900319
DE69026944 D1	19960613	DE19906026944	19900319
DE69026944 T2	19970123	DE19906026944T	19900319
EP0486498 A1	19920527	EP19900906522	19900319
EP0486498 A4	19911126	EP19900906522	19900319
EP0486498 B1	19960508	EP19900906522	19900319
ES2091242 T3	19961101	ES19900906522T	19900319
JP2834573 B2	19981209	JP19900506093	19900319
JP4504809 T2	19920827	JP19900506093T	19900319
NZ232983 A	19930526	NZ19900232983	19900319
SG67910 A1	19991019	SG19960096203	19900319
US4813938 A	19890321	US19870097758	19870917
US5045065 A	19910903	US19900491572	19900315
WO9011098 A1	19901004	WO1990US01346	19900319
ZA9002098 A	19910731	ZA19900002098	19900319

Probable Assignee: RAULERSON JAMES DANIEL

Assignee(s):(std)**:** RAULERSON J DANIEL ; RAULERSON JAMES D ; RAULERSON JAMES DANIEL

Assignee(s): ROORAASON JEIMUZU DEII ; RAULERSON JAMES D BREWTON ALA US ; JAMES D RAULERSON

Inventor(s):(std)**:** RAULERSON J DANIEL ; RAULERSON JAMES D ; RAULERSON JAMES DANIEL ; JAMES D RAULERSON

Inventor(s): ROORAASON JEIMUZU DEII ; RAULERSON JAMES D BREWTON ALA US

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; SMART AND BIGGAR

Designated states: AT AU BE CA CH DE DK ES FR GB IT JP LU NL SE

International class (IPC 8–9): A61M25/01 A61M25/06 A61M5/00 A61M5/145 (Advanced/Invention); A61M5/145 (Advanced/Non–invention); A61M25/01 A61M25/06 A61M5/145 (Core/Invention); A61M (Subclass/Invention)

International class (IPC 1–7): A61M25/01 A61M25/6 A61M3/00 A61M5/0 A61M5/00 A61M5/145 A61M5/36

CPC: A61M25/0113 A61M25/06

European class: A61M25/01C3 A61M25/06

US class: 604/156 604/158 604/167 604/169 604/236

Classification Explorer

Cited documents: US4846799 A, US4610665 A, US4606347 A, US4601706 A, US4529399 A, US4517979 A, US4483340 A, US4479497 A, US4464177 A, US4448195 A, US4424833 A, US4356823 A, US4346698 A, US4314555 A, US4274408 A, US4261357 A, US4245635 A, US4243034 A, US4233982 A, US4200096 A, US4177814 A, US4160383 A, US4029104 A, US3978863 A, US3921729 A, US3920013 A, US3859998 A, US3853127

A, US3851647 A, US3766916 A, US3739778 A, US3535068 A, US3335723 A, US3308820 A, US3215141 A, US3097646 A, US3040743 A, US2936756 A, US2711734 A, US2626604 A, US1317314 A, US105776 A, IT507607 A, FR2004771 A1, DE3042229 A1, DE3041229 A1, DE2507119 A1, DE2415196 A1,

Forward Citations: WO9953835, WO9747340, WO16176065, WO13070692, WO06007592, WO06007592, WO04112881, USRE42379, USRE36273, USD786427, USD644731, USD638539, US9668766, US9533137, US9440060, US9415200, US9370641, US9278206, US9238129, US9205243, US9192753, US9186494, US9162038, US9149626, US9149625, US8905996, US8870850, US8758306, US8628515, US8597249, US8591468, US8540728, US8486023, US8460247, US8454579, US8444628, US8403891, US8398607, US8343107, US8337463, US8333735, US8328762, US8308691, US8221391, US8105314, US8052647, US8034065, US8029495, US8002765, US7918821, US7824393, US7763199, US7753887, US7736339, US7727195, US7722576, US7722575, US7717887, US7717886, US7717885, US7717884, US7717883, US7713249, US7713248, US7713247, US7628774, US7544184, US7497849, US7481797, US7470254, US7198150, US7081107, US6949107, US6916309, US6808520, US6776774, US6695817, US6652492, US6595952, US6551281, US6547762, US6544235, US6533759, US6520939, US6500129, US6485428, US6477402, US6322541, US6280401, US6277100, US6197016, US6117112, US6068011, US6015401, US6013037, US6011988, US5989223, US5935122, US5895377, US5891105, US5885217, US5879338, US5873841, US5865227, US5843002, US5836921, US5827202, US5810012, US5752938, US5685862, US5685854, US5674195, US5672158, US5611779, US5603702, US5514100, US5505710, US5489274, US5484419, US5460616, US5448993, US5438993, US5397310, US5395349, US5391154, US5380290, US5338311, US5334164, US5314410, US5306259, US5304143, US5300035, US5295969, US5290242, US5282790, US5273042, US5180373, US5167636, US5161773, US5147314, US5125906, US5035705, US2012130307, US2011192489, US2011112375, US2011022031, US2010286609, US2010249707, US2010179509, US2009292253, US2008108944, US2007112313, US2006282043, US2006276758, US2006276757, US2006271016, US2006270999, US2006264910, US2006264892, US2006264849, US2006264845, US2006264844, US2006264843, US2006264842, US2006224127, US2006212006, US2006212001, US2006212000, US2006211998, US2006206061, US2006200090, US2006200086, US2006178731, US2006161115, US2006155245, US2006116644, US2006004331, US2005240159, US2005075606, US2005043684, US2005033238, US2004243070, US2004073174, US2004030321, US2004006330, US2004002681, KR101707181, FR2664168, ES2110911, EP0857433, EP0583052, DE4040620, DE10108440,

Abstract:
Source: US4813938A A catheter introduction syringe for the introduction of a catheter or catheter guide wire into a patient's body, the catheter introduction syringe comprises a hollow substantially cylindrical syringe barrel to support a needle thereon having a substantially cylindrical plunger slidably disposed therein, the substantially cylindrical plunger includes a centrally disposed channel formed longitudinally therethrough having a valve assembly disposed in operative relationship relative to the centrally disposed channel to prevent passage of air or liquid therethrough during flushing or aspirating of the catheter introduction syringe and permit the introduction of a catheter or catheter guide wire through the centrally disposed channel, hollow substantially cylindrical syringe barrel and needle for introduction into the patient's body without the flow of air or liquid through the centrally disposed channel.

0) US2010030246A – CLOSURE DEVICE AND METHOD FOR OCCLUDING A BODIL...

134) Family number: 42074764 (US2010030246A) © PatBase

Title: CLOSURE DEVICE AND METHOD FOR OCCLUDING A BODILY PASSAGEWAY

Priority: US20070898842P 20070201 US20090533738 20090731 WO2008US01376 20080201

Family:

Publication number	Publication date	Application number	Application date
US2010030246 AA	20100204	US20090533738	20090731
US8480707 BB	20130709	US20090533738	20090731
WO08094691 A2	20080807	WO2008US01376	20080201
WO08094691 A3	20090226	WO2008US01376	20080201

Probable Assignee: COOK MEDICAL TECHNOLOGIES LLC

Assignee(s):(std)**:** COOK INC ; COOK MEDICAL TECHNOLOGIES LLC ; PAVCNIK DUSAN ; TEKULVE KURT J ; UNIV OREGON HEALTH AND SCIENCE

Assignee(s): OREGON HEALTH AND SCIENCE UNIV

Inventor(s):(std)**:** PAVCNIK DUSAN ; TEKULVE KURT J

Agent(s): BRINKS HOFER GILSON AND LIONE/CHICAGO/COOK; BRINKS HOFER GILSON AND LIONE CHICAGO COOK; BRINKS HOFER GILSON AND LIONE; LEFFEL KEVIN L

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 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 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 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 ZA ZM ZW

International class (IPC 8–9): A61B17/00 A61B17/08 (Advanced/Invention); A61B17/00 A61B17/03 (Core/Invention)

CPC: A61B17/0057 A61B2017/00575 A61B2017/00597 A61B2017/00606 A61B2017/00623

European class: A61B17/00P K61B17/00P5 K61B17/00P5F K61B17/00P5H K61B17/00P5R K61B17/12P2

US class: 606/151 606/157 606/157P 606/213 606/213S

Classification Explorer

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US2013218167, US2013197571, US2010312272, US2010106068, DE102011117892,

Abstract:
Source: US2010030246A A device for occluding septal defects or other bodily passage−ways includes two anchors connected to an occluding body. The occluding body may be formed as a plug or tube of biocompatible material configured to occlude a bodily passageway. At least one of the anchors includes a grasping member in the form of a loop or suitably shaped structure, which is configured for releasable attachment to an anchor engaging member, such as a biopsy forceps. In a further aspect a closure device assembly includes a closure device linked to the biopsy forceps and collapsibly disposed in a catheter. By positioning the catheter near a bodily passageway, such as a PFO, and disengaging the forceps from the grasping member, the closure device may be released so as to facilitate stable closure of a septal opening, such as a PFO.

135) Family number: 8716620 (US2002004680A) © PatBase

Title: ANTI–STENOTIC METHOD AND PRODUCT FOR OCCLUDED AND PARTIALLY OCCLUDED ARTERIES

Priority:

CA19912048850	19910809	US19890395500	19890818	US19890395500	19890818
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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: ENDOVASCULAR INSTR INC

Assignee(s):(std)**:** PLAIA MARK ; MARK PLAIA ; EVI CORP ; ENDO VASCULAR INSTR INC ; ENDOVASCULAR INSTR INC

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Inventor(s):(std)**:** KELLY THOMAS ; KELLY THOMAS L ; NORDGREN GREGORY N ; PLAIA MARK ; REGER VINCENT ; REGER VINCENT A

Inventor(s): THOMAS L KELLY ; VINCENT A REGER ; MARK PLAIA ; NORDGREN GREGORY ; GREGORY N NORDGREN

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; CASSAN MACLEAN; LYNN G FOSTER

Designated states: AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IT JP KE KG KP KR KZ LI LK LR LT LU LV MC MD MG ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SI SK SN SU SZ TD TG TJ TT UA UG US UZ VN

International class (IPC 8–9): A61B17/00 A61B17/064 A61B17/22 A61B17/32 A61B17/3207 A61B17/3211 A61B18/24 A61B19/00 A61F2/06 A61F2/82 A61F2/84 A61F2/86 A61M25/00 A61M29/02 (Advanced/Invention); A61B17/00 A61B17/064 A61B17/22 A61B18/24 A61B19/00 A61F2/82 A61F2/86 A61M29/02 (Advanced/Non–invention); A61B17/22 A61F2/06 A61F2/82 (Core/Invention); A61B17/00 A61B17/064 A61B17/22 A61B18/20 A61B19/00 A61M29/02 (Core/Non–invention)

International class (IPC 1–7): A61B17/00 A61B17/22 A61B17/32 A61B19/00 A61F2/04 A61F2/06 A61M25/00 A61M29/00

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Abstract:
Source: US2002004680A Methods of artificially lining a vessel, especially an artery, of a medical patient to address the existence of a flow–inhibiting atheroma and to significantly alleviate the probability of restenosis, and the resulting products.

0) US2002128707A – IMPLANTABLE, SELF–EXPANDING PROSTHETIC DEVICE

136) Family number: 52210337 (US2002128707A)

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Title: IMPLANTABLE, SELF–EXPANDING PROSTHETIC DEVICE

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US6814750 BB	20041109	US20020140780	20020507	
WO9403127 A1	19940217	WO1993DK00256	19930806	

Probable Assignee: COOK MEDICAL TECHNOLOGIES LLC

Assignee(s):(std)**:** COOK INC ; VILL JAM KUK JUROP A S ; KADNIKOV ANDREJ A ; KAVTELADZE ZAZA A ; KORSHOK ALEKSANDR P ; COOK WILLIAM EUROP ; WILLIAM COOK EUROPE AS

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Agent(s): MADDERNS; SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; KIRBY EADES GALE BAKER; POWELL STEPHEN DAVID; RICHARD J GODLEWSKI PATENT ATTORNEY

Designated states: AT AU BE CA CH DE DK ES FR GB GR HU IE IT JP LI LU MC NL PL PT RU SE US

International class (IPC 8–9): A61F2/00 A61F2/04 A61F2/06 A61F2/82 A61F2/84 A61F2/90 A61F2/95 A61L27/06 A61L31/02 A61M29/00 (Advanced/Invention);
A61F2/00 A61F2/04 A61F2/82 A61F2/84 A61F2/95 (Advanced/Non–invention);
A61F2/04 A61F2/06 A61F2/82 A61M29/00 (Core/Invention);
A61F2/00 (Core/Non–invention)

International class (IPC 1–7): A61B17/00 A61F2/04 A61F2/06 A61M29/00

CPC: A61F2002/9517 A61F2250/0098 A61F2002/9505 A61F2002/9665 A61F2/90 A61F2/95 A61F2002/9511 A61F2210/0019

European class: A61F2/90 A61F2/95 K61F2/95 K61F2/95D K61F2/95D2 K61F2/95H K61F2/966B K61F210/00D2 K61F250/00W99C

US class: 606/108 606/194 623/1 623/1.11 623/1.15 623/1.150P 623/1.17 623/1.170P 623/1.19 623/1.190S 623/1.22 623/12

Classification Explorer

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Abstract:
Source: US2002128707A A prosthetic device for sustaining a vessel or hollow organ lumen (a stent) has a tubular wire frame (1) with rows of elongate cells (2) having a larger axis and a smaller axis. The cells are arranged with the larger axis in the circumferential direction of the frame (2) and the smaller axis parallel to the axial direction thereof. Each cell is formed by two U−shaped wire sections, and in a plane perpendicular to the longitudinal axis one of the branches of the U−shaped wire sections in one row form together a closed ring shape (4) which provides the frame (1) with large radial stiffness. In the axial direction the frame (1) has only low stiffness so that it easily conforms to the vascular wall even if this deforms due to external loads. The interconnection between the cells (2) may be flexible.

0) US2009069712A – MEDICAL TOOL FOR REDUCED PENETRATION FORCE

137) Family number: 42776662 (US2009069712A) © PatBase

Title: MEDICAL TOOL FOR REDUCED PENETRATION FORCE

Priority: US20070937749P 20070629 US20080089756P 20080915 US20110222363 20110831 US20090559383 20090914 US20080163071 20080627 US20080099756P 20080924 US20110441500P 20110210 US20110441677P 20110211 US20120371310 20120210 US20120672482 20121108 US20120672497 20121108 US20120672505 20121108 US20140329177 20140711 US20130895789P 20131025 WO2012US24762 20120210 US20140522681 20141024 US20150689982 20150417 US20150976939 20151221 WO2014US62099 20141024 US20160205357 20160708 US20150189956P 20150708 US20160258781 20160907

Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: ACTUATED MEDICAL INC

Assignee(s):(std)**:** ACTUATED MEDICAL INC ; ACTUATED MEDICAL LNC ; BAGWELL ROGER B ; BOOTH DAVID E ; CLEMENT RYAN S ; PIEZO RESONANCE INNOVATIONS IN ; MULVIHILL MAUREEN L ; PARK BRIAN M ; FRANKHOUSER PAUL L ; SHEEHAN RYAN M ; HERNANDEZ MESA GABRIELA ; MESA GABRIELA HERNANDEZ

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Agent(s): FB RICE; BORDEN LADNER GERVAIS LLP; FINDLAY ALICE ROSEMARY; WEBB LAW FIRM PC; CAESAR RIVISE BERNSTEIN COHEN AND POKOTILOW LTD; METZ LEWIS BRODMAN MUST OKEEFE LLC; BARRY I; METZ LEWIS BRODMAN MUST OKEEFE; NEAL P; REZNICK PAUL M ET AL; FRIEDMAN BARRY I; PIEROTTI NEAL P ET AL; HAUTH JESSICA H 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

International class (IPC 8–9): A61B10/00 A61B10/02 A61B17/14 A61B17/32 A61B17/34 A61B19/00 A61B5/00 A61B5/103 A61B5/117 A61B5/15 A61B6/00 A61B90/00 A61M19/00 A61M25/00 A61M25/06 A61M25/08 A61M25/09 A61M37/00 A61M5/00 A61M5/14 A61M5/158 A61M5/20 A61M5/31 A61M5/315 A61M5/32 A61M5/46 A61M5/48 (Advanced/Invention); A61B17/00 A61B17/32 A61B19/00 (Advanced/Non–invention); A61B10/02 A61B17/34 A61M5/14 A61M5/31 (Core/Invention)

CPC: A61M25/0084 A61B10/0233 A61B2010/0208 A61B5/4896 A61B17/3403 A61M37/0092 A61M25/065 A61B17/3423 A61M5/158 A61B2017/3413 A61B2017/0011 A61M2005/1585 A61M2205/581 A61M2205/582 A61M2205/583 A61B17/3401 A61B17/3415 A61B2017/00115 A61B2017/00123 A61B17/320068 A61B5/15003 A61B5/150137 A61B5/150389 A61B5/150503 A61B5/150946 A61B5/153 A61B34/20 A61M5/00 A61M5/20 A61B5/150236 A61B5/150244 A61B5/150259 A61M5/46 A61M25/0662 A61M2205/0294 A61M2205/332 A61M2025/0166 A61B2017/3409 A61B10/025 A61M25/06 A61M25/09041 A61M2025/09116 A61B2017/00477 A61B90/06 A61M19/00 A61B2017/00026 A61B2017/00039 A61B17/3476 A61B2090/064 A61M5/3287 A61B17/34 A61B2017/22038 A61M2005/3289 A61B17/3496

European class: A61B10/02P4 A61B17/34B A61B17/34E K61B17/00C2 K61B17/00C2A2 K61B17/32U K61B17/34P K61B19/46H

US class: 1/1 600/204 600/424 600/431 600/562 600/564 600/564P 600/567 600/567P 600/568 600/573 600/576 600/587 604/164.01 604/218 604/22 604/224 604/22P 604/22S 604/272 604/274 604/528 606/108 606/130 606/169 606/169P 606/181 606/185 606/185S 606/42

Classification Explorer

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US2010094143 AA, US2010069851 AA, US2010036245 AA, US2010010505 AA, US2010004558 AA, US2009270759 AA, US2009247865 AA, US2009240205 AA, US2009204119 AA, US2009157044 AA, US2009131832 AA, US2009131830 AA, US2009069830 AA, US2009069712 AA, US2009005703 AA, US2008294087 AA, US2008255444 AA, US2008228104 AA, US2008154188 AA, US2008147094 AA, US2008139961 AA, US2008103413 AA, US2008097287 AA, US2008055028 AA, US2008021490 AA, US2008001500 AA, US2007255220 AA, US2007250113 AA, US2007219496 AA, US2007191758 AA, US2007142766 AA, US2007129732 AA, US2007129628 AA, US2007123888 AA, US2007088376 AA, US2007088297 AA, US2007079455 AA, US2007063618 AA, US2007038129 AA, US2006224144 AA, US2006195043 AA, US2006149161 AA, US2006149141 AA, US2006142657 AA, US2006135882 AA, US2006122555 AA, US2006058783 AA, US2005283080 AA, US2005177201 AA, US2005148940 AA, US2005131345 AA, US2005070458 AA, US2005033314 AA, US2004260240 AA, US2004254599 AA, US2004215080 AA, US2004176717 AA, US2004138570 AA, US2004106894 AA, US2004082884 AA, US2004049216 AA, US2004024358 AA, US2004010251 AA, US2004010204 AA, US2003199909 AA, US2003199899 AA, US2003195468 AA, US2003109871 AA, US2003078495 AA, US2003040737 AA, US2002198555 AA, US2002183774 AA, US2002109433 AA, US2002077589 AA, US2002049462 AA, US2002042594 AA, US2002026127 AA, US2002010390 AA, US2001014785 AA, JP9239031 A2, JP4039031 A2, JP2001346874 A2, EP1647255 A2, EP0266058 A2, CN101431940 A,

Forward Citations: WO17049146, WO17044702, WO17008008, WO16142749, WO16058845, WO16022808, WO16022221, WO15198223, WO15138989, WO15061643, WO14200908, WO14097301, WO14085747, WO14066937, WO13123476, WO12109621, US9642644, US9642642, US9636135, US9623237, US9621084, US9615844, US9610152, US9510850, US9504855, US9504483, US9498245, US9445832, US9439669, US9439668, US9433758, US9427249, US9422520, US9414853, US9408622, US9393037, US9358072, US9358038, US9351754, US9339289, US9339284, US9326788, US9318980, US9283113, US9283045, US9247928, US9241731, US9241728, US9237921, US9232979, US9226767, US9226766, US9220527, US9220483, US9216035, US9198714, US9186526, US9173667, US9168054, US9149291, US9107689, US9095367, US9089360, US9072539, US9072507, US9066747, US9060776, US9060775, US9050093, US9039695, US8986333, US8986302, US8981914, US8956349, US8951248, US8926525, US8900160, US8870865, US8779648, US8777944, US8777871, US8773001, US8771199, US8754570, US8328738, US2016346519, US2016211782, US2015335483, US2015320405, US2015094723, US2015083776, US2014366672, US2014320272, US2014221970, US2014188012, US2013253557, US2013178882, US2013041286, US2013035560, US2012310262, US2012302916, US2012136251, US2011245799, US2011212521, US2011178508, US2011160620, US2011118601, US2011087216, US2011060229, US2011046477, US2010312102, US2010004558, US2008213899, JP2015163069, GB2534525, EP3017777, EP3009076, EP3007634, CN105232093, CN104274154, CN103889357, CN103458810,

Abstract:
Source: US2009069712A A medical device is provided having reduced penetration force. The device includes a body having a central hollow channel and a piezoelectric transducer received within and secured to the body. The piezoelectric transducer has a hollow portion concentric with the central hollow channel. A tubular member is associated with and in communication with the piezoelectric transducer. The tubular member has at least one open end formed concentric with the central hollow channel and the hollow portion of the piezoelectric transducer, wherein the transducer is adapted for vibrating at a frequency to produce an oscillating displacement of the tubular member.

138) Family number: 30269520 (US5556389A) © PatBase

Title: Method and apparatus for treating stenosis or other constriction in a bodily conduit

Priority: AU19950021925 19950331 AU19980097047 19981211 EP19950933934 19950929 EP19950933934 19950929 US19940220681 19940331 CA19972201463 19970401 US19960632150 19960415 WO1995US03645 19950331 US19940316500 19940930 WO1995US12223 19950929

Family:

Publication number	Publication date	Application number	Application date
AU199521925 A1	19951023	AU19950021925	19950331
AU199536408 A1	19960426	AU19950036408	19950929
AU199717787 A1	19971023	AU19970017787	19970408
AU199897047 A1	19990204	AU19980097047	19981211
AU697592 B2	19981008	AU19950021925	19950331
AU702117 B2	19990211	AU19950036408	19950929
AU735050 B2	20010628	AU19980097047	19981211
CA2186889 AA	19960930	CA19952186889	19950331
CA2199967 AA	19970313	CA19952199967	19950929
CA2201463 AA	19971015	CA19972201463	19970401
DE69728203 D1	20040429	DE19976028203	19970408
DE69728203 T2	20050127	DE19976028203T	19970408
EP0754010 A1	19970122	EP19950914832	19950331
EP0754010 A4	19980701	EP19950914832	19950331
EP0783340 A1	19970716	EP19950933934	19950929
EP0783340 A4	19990616	EP19950933934	19950929
EP0801961 A2	19971022	EP19970302395	19970408
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EP1402918 A2	20040331	EP20030026317	19950929
EP1402918 A3	20050323	EP20030026317	19950929
ES2215211 T3	20041001	ES19970302395T	19970408
IL113164 A0	19950629	IL19950113164	19950328
IL113164 A1	19990922	IL19950113164	19950328
JP10028740 A2	19980203	JP19970089795	19970408
JP10509332 T2	19980914	JP19960511932T	19950929
JP11503622 T2	19990330	JP19950525758T	19950331
US5556389 A	19960917	US19940220681	19940331
US5618266 A	19970408	US19940316500	19940930
US5840064 A	19981124	US19960632150	19960415
WO9526681 A1	19951012	WO1995US03645	19950331
WO9610436 A1	19960411	WO1995US12223	19950929

Probable Assignee: INTERVENTIONAL THERAPIES LLC

Assignee(s):(std)**:** ANGIORAD L L C ; ANGIORAD LLC ; CHARLES LAKE ; INTERVENTIONAL THERAPIES L L C ; INTERVENTIONAL THERAPIES LLC ; SAMUEL F LIPRIE ; LIPRIE SAMUEL F ; UNITED STATES SURGICAL CORP

Assignee(s): LIPRIE SAM F

Inventor(s):(std)**:** SAMUEL F LIPRIE ; LIPRIE SAMUEL F ; LIPRIE SAM F

Inventor(s): INTERVENTIONAL THERAPIES LLC

Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD; SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; ARKIN GARY; MCFADDEN FINCHAM; OSLER HOSKIN AND HARCOURT LLP; REINHOLD COHN AND PARTNERS; WOLFF BREGMAN AND GOLLER

Designated states: AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IS IT JP KE KG KP KR KZ LK LR LT LU LV MC MD MG ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SI SK SN SZ TD TG TJ TM TT UA UG UZ VN

International class (IPC 8–9): A61B17/22 A61F2/82 A61F2/958 A61M25/00 A61M25/09 A61M25/10 A61M29/00 A61M29/02 A61M36/04 A61M36/06 A61N5/00 A61N5/10 (Advanced/Invention); A61B17/22 A61F2/82 A61M25/00 A61M25/09 A61M29/02 A61N5/10 (Advanced/Non–invention); A61F2/82 A61M25/00 A61M25/09 A61M25/10 A61M29/02 A61M36/00 A61N5/10 (Core/Invention); A61B17/22 (Core/Non–invention)

International class (IPC 1–7): A61B17/22 A61B19/00 A61B6/00 A61M25/00 A61M25/09 A61M25/10 A61M29/00 A61M29/02 A61M36/00 A61M36/04 A61M36/06 A61M5/00 A61N1/30 A61N5/00 A61N5/10

CPC: A61B2017/22002 A61M25/1002 A61M25/104 A61M2025/1047 A61M2025/1079 A61M2025/1086 A61M2025/1093 A61N5/1002 A61N2005/1003

European class: A61M25/10A A61M25/10P A61N5/10B A61N5/10B1 A61N5/10B2 K61B17/22A2 K61M25/10Z16 K61M25/10Z19 K61M25/10Z2 K61M25/10Z22 K61N5/10B1B

US class: 600/3 600/434 604/101 604/101.01 604/103.07 604/21 604/246 604/264 606/192 606/194

Classification Explorer

Cited documents: WO9610436 A1, WO9304735 A1, US5618266 A, US5556389 A, US5505702 A, US5501667 A, US5441485 A, US5431648 A, US5397307 A, US5397305 A, US5395333 A, US5389087 A, US5386828 A, US5383856 A, US5378237 A, US5370676 A, US5368567 A, US5360403 A, US5354257 A, US5348537 A, US5346505 A, US5326343 A, US5324259 A, US5320605 A, US5318587 A, US5308356 A, US5295959 A, US5266359 A, US5256150 A, US5215527 A, US5213561 A, US5209730 A, US5199939 A, US5174302 A, US5163905 A, US5160321 A, US5158553 A, US5112301 A, US5106360 A, US5040543 A, US5024658 A, US4932959 A, US4884573 A, US4873983 A, US4861520 A, US4581017 A, GB2105201 A1, EP0633041 A1, EP0512359 A1, EP0377749 A1, DE9102312 U, DE4033088 A1, AU2192595 A1,

Forward Citations: WO9966979, WO9942177, WO9942163, WO9940973, WO9940971, WO9940962, WO9932192, WO9922815, WO9921616, WO9918852, WO9911325, WO9846309, WO9841298, WO9801185, WO9801183, WO9748452, WO9725103, WO14002733, WO08105756, WO06055692, WO06055683, WO0226323, WO0211805, WO0160443, WO0160443, WO0143808, WO0134196, US9649184, US9629643, US9592119, US9504811, US9463300, US9433433, US9421115, US9421024, US9402646, US9381027, US9295818, US9282984, US9265520, US9186488, US9138567, US9131942, US9078779, US9078630, US9039727, US9005138, US8961423, US8956382, US8956375, US8932326, US8808346, US8790291, US8777985, US8708955, US8690819, US8679147, US8679049, US8668709, US8647458, US8647293, US8641630, US8628555, US8617441, US8617337, US8617096, US8613751, US8608793, US8574264, US8562637, US8506519, US8500789, US8496669, US8409168, US8382796, US8372112, US8365721, US8353812, US8337650, US8317819, US8308677, US8292795, US8267917, US8246643, US8226566, US8221343, US8196279, US8157940, US8152753, US8147511, US8137291, US8133236, US8133190, US8114102, US8100959, US8100818, US8092515, US8075497, US8062566, US8062344, US8043251, US7996976, US7994449, US7976564, US7955293, US7951060, US7947060, US7935141, US7922732, US7828816, US7828815, US7811238, US7803103, US7803102, US7798980, US7785275, US7758565, US7744520, US7731693, US7717937, US7691128, US7686815, US7678130, US7678100, US7670356, US7670355, US7641668, US7578899, US7578830, US7575586, US7572273, US7566338, US7563222, US7556636, US7556635, US7442200, US7410492, US7404820, US7371250, US7367986, US7367985, US7338514, US7276019, US7232408, US7182745, US7163504, US7160238, US7109505, US7090635, US7066872, US7060150, US7056276, US7048752, US7041046, US7033375, US7025716, US7018371, US6997918, US6994665, US6989019, US6949103, US6913596, US6821296, US6821242, US6817995, US6796976, US6796965, US6790226, US6790170, US6770058, US6770021, US6712836, US6699231, US6699170, US6685619, US6685618, US6679860, US6676988, US6676590, US6635008, US6629920, US6616629, US6605031, US6599230, US6585715, US6582417, US6582353, US6582352, US6572633, US6569076, US6544217, US6540734, US6539247, US6537195, US6533812, US6527739, US6514191, US6503185,

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Abstract:
Source: US5556389A An apparatus and method for treating an occlusion or constriction, such as a stenosis in a blood vessel or other conduit in the body, as well as an apparatus and method for treating a tumor or cancerous area occurring around a conduit or duct in the body. The apparatus includes a catheter provided with a ribbed balloon encircling a portion near its distal end. When inserted into the body over a guide wire and transported to the site of the stenosis, the balloon is inflated one or more times and, due to the ribbed balloon, blood perfuses around the catheter during the treatment. A radioactive source of material is inserted through the catheter to the site of the stenosis or cancer where it is maintained in position for a period of time to reduce the occurrence of re−stenosis or cancer. A guide wire provided with a removable core can be utilized to properly maneuver the catheter to the site of the stenosis or cancer.

139) Family number: 30130419 (US2003097086A) © PatBase

Title: WEARABLE CONTINUOUS RENAL REPLACEMENT THERAPY DEVICE

Priority:

EP20020773650 20020926 EP20060800983 20060807 US20010085349 20011116
US20020251937 20020919 US20040846618 20040514 US20060866357P 20061117
US20060500572 20060807 US20050706167P 20050805 US20070673419 20070209
US20040940862 20040914 US20060427267 20060628 US20040846618 20040517
US20070830695 20070730 US20070933569 20071101 US20070933533 20071101
US20070942626 20071119 WO2007US85131 20071119 US20090574128 20091006
US20090636501 20091211 WO2006US30923 20060807 US20100977931 20101223
US20100946590 20101115 WO2003US29148 20030916 WO2002US30968 20020926
US20140152276 20140110

Family:

Publication number	Publication date	Application number	Application date
AU2002337758 AA	20030610	AU20020337758	20020926
AU2002337758 AH	20030610	AU20020337758	20020926
AU2003270702 AA	20040408	AU20030270702	20030916
AU2003270702 AH	20040408	AU20030270702	20030916
BRPI0214228 A	20060530	BR2002PI14228	20020926
BRPI0614083 A2	20110309	BR2006PI14083	20060807
CN101291704 A	20081022	CN200680035957	20060807
CN101291704 B	20110420	CN200680035957	20060807
DE602006037140 D1	20130829	DE200660037140T	20060807
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Probable Assignee: FRESENIUS MEDICAL CARE HOLDINGS INC

Assignee(s):(std)**:** FRESENIUS MED CARE HLDG INC ; FRESENIUS MEDICAL CARE HOLDINGS INC ; GURA VICTOR ; NAT QUALITY CARE INC ; NATIONAL QUALITY CARE INC ; RAMBOD EDMOND ; RAMBOD EDMUND

Assignee(s): FRESENIUS MEDICAL CARE HOLDINGS INC WALTHAM ; FRESENIUS USA INC

Inventor(s):(std)**:** GURA VICTOR ; VICTOR GURA ; RAMBOD EDMUND ; EDMOND RAMBOD ; RAMBOD EDMOND

Inventor(s): RAMBOD EDMOND LOS ANGELES ; GURA VICTOR BEVERLY HILLS ; EDMUND RAMBOD

Agent(s): UEXKUELL AND STOLBERG; HASELTINE LAKE LLP; OCONNELL DAVID CHRISTOPHER; STEVEN R GREENFIELD JENKENS AND GILCHRIST; HOWISON AND ARNOTT LLP; JENKENS AND GILCHRIST; HAMILTON BROOK SMITH AND REYNOLDS PC; HOWISON GREGORY M ET AL

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 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 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

International class (IPC 8–9)**:** A61B19/00 A61M1/00 A61M1/10 A61M1/14 A61M1/16 A61M1/18 A61M1/34 A61M37/00 A61M5/142 B01D61/00 B01D61/14 B01D61/18 B01D61/28 B01D61/32 C02F1/44 F04B43/12 (Advanced/Invention);
A61M1/00 C02F1/44 (Advanced/Non–invention);

A61M1/00 A61M1/10 A61M1/14 A61M1/16 A61M1/34 A61M37/00 B01D61/18 B01D61/24 (Core/Invention);
A61M (Subclass/Invention)

International class (IPC 1–7): A37M61/00 A61M0/0 A61M0/00 A61M1/00 A61M1/14 A61M1/18 A61M37/00 B01D61/00 C02F1/44

CPC: A61M1/34 A61M1/3496 B01D61/145 B01D61/18 B01D2313/243 B01D2321/2066 A61M1/1039 A61M1/1645 A61M1/3472 A61M1/3672 A61M2205/3389 A61M2205/8212 A61M2205/8237 F04B43/082 F04B43/086 F04B43/09 A61M1/1694 A61M1/1696 A61M1/1006 A61M1/0096 A61M1/1005 A61M1/16 A61M1/1649 A61M2205/3382 A61M2205/8206 A61M2209/082 A61M2209/088 B01D61/32 B01D2311/14 A61M2205/50 A61M1/1601 A61M1/1617 A61M1/3607 A61M1/3639 A61M1/3663 A61M2202/0498 A61M2205/15 A61M2205/18 A61M2205/3317 A61M2205/3324 A61M2205/3331 A61M2205/3334 A61M2205/3344 A61M2205/3386 A61M1/341 A61M2205/502

European class: A61M1/16 A61M1/16R A61M1/16R2 A61M1/34 A61M1/34F A61M1/34P A61M1/36H B01D61/14D B01D61/18 B01D61/32 F04B43/08B F04B43/08P F04B43/09 K61M1/00Z2 K61M1/10A12 K61M1/10E1 K61M1/16B12 K61M1/16B8 K61M205/33V1 K61M205/33V3 K61M205/82B K61M205/82B2 K61M205/82D K61M209/08A K61M209/08P L01D311/14 L01D313/24B L01D321/20F

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Classification Explorer

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Forward Citations: WO17083298, WO17021236, WO16072826, WO16025859, WO15199863, WO15199766, WO15199760, WO15173833, WO15080895, WO15060716, WO15003794, WO14177656, WO14176319, WO14160481, WO14151322, WO14099631, WO13163375, WO12172398, WO12127298, WO12060700, WO12042481, WO12042481, WO12004103, WO11141186, WO11132154, WO11098265, WO11098265, WO11094113, WO11079941, WO11046797, WO11041302, WO11031610, WO11025705, WO10112538, WO10042666, WO10042666, WO09091963, WO08153396, WO08075951, WO08064174, WO07019519, WO07019519, WO05123230, WO05123230, USD757934, USD725261, US9672471, US9669138, US9657261, US9649418, US9642960, US9636445, US9616163, US9603985, US9599599, US9597442, US9597440, US9597023, US9585606, US9579431, US9555186, US9555179, US9550021, US9539379, US9535021, US9533250, US9526822, US9517296, US9517295, US9506024, US9456755, US9452248, US9446178, US9440018, US9433720, US9421313, US9415152, US9402941, US9399187, US9375672, US9370324, US9360129, US9358331, US9354640, US9352282, US9328936, US9316410, US9308307, US9302037, US9295772, US9295417, US9289165, US9285305, US9283597, US9272082, US9220849, US9220830, US9220822, US9211377, US9199027, US9199022, US9198801, US9194792, US9192707, US9181082, US9173988, US9168330, US9157786, US9149613, US9144640, US9138521, US9119578, US9115708, US9113836, US9107997, US9101707, US9089653, US9078969, US9078610, US9072830, US9067003, US9061095, US9058634, US9050412, US9041541, US9039652, US9039646, US9033898, US9028691, US9020827, US9017277, US8998839,

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Abstract:
Source: US2003097086A A continuous renal replacement therapy device adapted to be worn on a portion of the body of a patient, including: a plurality of contoured dialyzers, which are connected in series and utilize dialysate to remove impurities from the blood of the patient; and a plurality of contoured sorbent device, which are connected in series and are for regenerating the spent dialysate.

0) US2014026890A – ELASTIC HEADGEAR

140) Family number: 55704289 (US2014026890A) © PatBase

Title: ELASTIC HEADGEAR

Priority:

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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: RESMED LTD

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Inventor(s): ANTHONYPAULBABALA ; JUSTINJOHNFORMICA

Agent(s): HALFORDS IP; BLAKE CASSELS AND GRAYDON LLP; VOSSIUS AND PARTNER PATENTANWAELTE RECHTSANWAELTE MBB; VOSSIUS AND PARTNER PATENTANWAELTE RECHTSANWAELTE MBB; DAVIDSON GEOFFREY ROBERT ET AL; DAVIDSON GEOFF 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

International class (IPC 8–9): A61B18/08 A61M15/08 A61M16/00 A61M16/04 A61M16/06 A61M16/08 A61M16/10 A61M39/08 A61M99/00 A62B18/08 A62B9/00 A62B9/04 F16L11/00 (Advanced/Invention); A61B18/08 A61M16/00 A61M16/10 A61M16/16 A61M16/20 (Advanced/Non–invention)

CPC: A61M2210/0618 A61M16/0069 A61M16/10 A61M16/16 A61M2016/0027 A61M2016/0039 A61M2202/0208 A61M16/0616 A61M16/0825 A61M2205/42 A61M2207/00 A61M16/0633 A61M16/0858 A61M16/208 A61M2205/21 A61M2205/7545 A61M16/0611 A61M16/0816 A61M2210/0625 A61M16/0672 A61M16/0057 A61M16/009 A61M16/0622 A61M16/06 A61M16/0066 A61M2205/0216 A61M16/0666 A61M16/0683 A61M16/0875 A61M16/1055 A61M16/107

US class: 128/205.25 128/206.21 128/206.24 128/207.11 128/207.13 128/207.18

Classification Explorer

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Abstract:
Source: US2014026890A Headgear, comprising at least one strap; and at least one rigidizer, the headgear being arranged to position one of the at least one strap and one of the at least one rigidizer, with regard to one another such that the rigidizer imparts a desired shape to at least a portion of the strap while allowing said portion of the strap to move relative to the rigidizer.

141) Family number: 30105653 (US2001031973A) © PatBase

Title: Suturing device and method for sealing an opening in a blood vessel or other biological structure

Priority:

AU19990029731	19990223	AU20030212025	20030710	EP19990301495	19990301
EP20050076092	19990301	US19980036437	19980309	US19990231177	19990114
US19990471866	19991223	US19960702315	19960823	US19950002769P	19950824
JP19990544795	19990223	US19950002769	19950824	EP20080075767	19990301
WO1999US03904	19990223	US20030420355	20030421	US20010773046	20010130
US20060503652	20060814	US20030435928	20030512	US20010881550	20010614
US20060354302	20060214	WO1996US13666	19960823	US20070653083	20070112
US20070653103	20070112	US20000524211	20000313	US20000524211	20000313
WO2001US08050	20010313				

Family:

Publication number	Publication date	Application number	Application date
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AU199929731 A1	19990927	AU19990029731	19990223
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AU200149185 A5	20010924	AU20010049185	20010313
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AU2003212025 BB	20051208	AU20030212025	20030710
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WO9945848 A1	19990916	WO1999US03904	19990223	

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Agent(s): FB RICE; SMART AND BIGGAR; RGC JENKINS AND CO; MUSKER DAVID CHARLES ET AL; BRINCK DAVID JOHN BORCHARDT; WHITLOCK HOLLY ELIZABETH ANN; CARPINTERO MARIO; KNOBBE MARTENS OLSON AND BEAR LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN 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 NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

International class (IPC 8–9): A61B17/00 A61B17/04 A61B17/11 A61B17/12 A61B17/28 (Advanced/Invention); A61B17/04 A61B17/06 A61B17/28 (Advanced/Non–invention); A61B17/00 A61B17/04 (Core/Invention)

International class (IPC 1–7): A61B017/00 A61B17/00 A61B17/04 A61B17/11 A61B17/12 A61R17/04

CPC: A61B17/0625 A61B17/0057 A61B17/0469 A61B17/0482 A61B2017/00637 A61B2017/00659 A61B2017/00663 A61B2017/00672 A61B2017/0472 A61B17/0483 A61B17/0491 A61B2017/00867 A61B2017/06042 A61B2017/2911 A61B17/06166

European class: A61B17/00P A61B17/04E A61B17/04G A61B17/062N K61B17/00P K61B17/00P11J K61B17/00P11S K61B17/00P20 K61B17/00P7 K61B17/00S12 K61B17/04E

K61B17/04E3 K61B17/04G K61B17/04H K61B17/04M K61B17/06A30 K61B17/06S K61B17/29H4

US class: 606/139 606/139S 606/144 606/144P 606/147 606/148 606/148P 606/191 606/192 606/198 606/232

Classification Explorer

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Abstract:
Source: US2001031973A A suturing device allows a physician to remotely seal an incision in a blood vessel or other biological tissue. The device comprises an elongated tubular body having a distal portion which is adapted to be inserted percutaneously through the incision and into the blood vessel. The distal portion has first and second retractable arms which extend from the distal portion of the body and releasably hold a suture within the blood vessel. First and second retractable needles, each of which is configured to catch the suture from a respective arm, are provided along the body proximal to the retractable arms. The arms and the needles are remotely movable by the physician using a handle or other control mechanism provided at a distal portion of the device. In operation, the arms are initially deployed within the blood vessel to hold the ends of the suture beyond the circumference of the tubular body. The needles are then deployed from and then retracted into the body, during which time the needles pierce the vessel wall on opposite sides of the incision, release the suture ends from the retractable arms, and pull the suture through the vessel wall. The device is particularly useful for closing an incision in an artery following a catheterization procedure. In one embodiment, the catheter sheath introducer (CSI) used to perform the catheterization procedure is left in place during the suturing procedure.

142) Family number: 31485282 (US2005128742A) © PatBase

Title: LIGHT GENERATING DEVICE THAT SELF CENTERS WITHIN A LUMEN TO RENDER PHOTODYNAMIC THERAPY

Priority:

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Family:

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JP4746542 B2	20110810	JP20060518942T	20040709
KR20070107014 A	20071106	KR20077017503	20070727
MX2007008061 A1	20070717	MX20070008061	20051230
RU2007128953 A	20090210	RU20070128953	20051230
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US8685071 BB	20140401	US20120401747	20120221	
WO04082736 A2	20040930	WO2004US07563	20040312	
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WO05004704 A2	20050120	WO2004US23451	20040708	
WO05004704 A3	20051103	WO2004US23451	20040708	
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WO05007216 A3	20060126	WO2004US22130	20040709	
WO06074078 A1	20060713	WO2005US47445	20051230	

Probable Assignee: LIGHT SCIENCES ONCOLOGY INC

Assignee(s):(std)**:** BISHOP JEAN ; BURWELL PHILLIP ; CHEN JAMES ; CHEN JAMES C ; DALY STEVEN ; GUO ZIHONG ; LICHTTENEGGERE GARY ; LICHTTENEGGER GARY ; DALY STEVEN R ; LIGHT SCIENCES CORP ; MATSON JENNIFER ; YEO NICK ; NARCISO HUGH ; LIGHT SCIENCES CORPORAION ; SHINE DAVID ; ZIHONG GUO ; MATSON JENNIFER K ; SHINE DAVID B ; LIGHT SCIENCES ONCOLOGY INC ; LAJT SAJENSIZ ONKOLODZHI INK ; LICHTLENEGGER GARY ; PURDUE PHARMACEUTICAL PRODUCTS L P

Assignee(s): PURDUE PHARMACEUTICAL PRODUCTS LP ; LIGHT SCIENCES ONCOLOGY INC250 – 34931 S.E. DOUGLAS STREETSNOQUALMIEWA98065US ; NARCISO HUGH2870 HOLLY ROADSANTA BARBARACA93105US ; LIGHT SCIENCES CORP200 – 34931 SE DOUGLAS STREETSNOQUALMIEWA98065US ; LIGHT SCIENCES LLC200 – 34931 S.E. DOUGLAS STREETSNOQUALMIEWA98065US ; EURO CELTIQUE SA2, AVENUE CHARLES DE GAULLEL–1653LYXEMBOURGLU ; EURO CELTIQUE SA ; DALY STEVEN ROSS ; LIGHT SCIENCES LLC ; LIGHT SCIENCES ACQUISITION LLC

Inventor(s):(std)**:** BARNARD WILLIAM L ; BERVELL FILLIP ; BISHOP JEAN ; BISHOP JEAN M ; BURWELL PHILLIP ; CHEN DZHEJMS K ; CHEN JAMES C ; DALY STEVEN ; DALY STEVEN R ; DALY STEVEN ROSS ; CHEN JAMES ; DEJLI STIVEN R ; GARY LICHTTENEGGER ; GO TSZYKHUN ; GUO ZI HONG ; GUO ZIHONG ; LICHTLENEGGER GARY ; LICHTTENEDZHER GEHRI ; LICHTTENEGGER GARY ; LICHTTENEGGERE GARY ; MATSON JENNIFER ; MATSON JENNIFER K ; MATSON JENNIFER KRISTINE ; NAIMUSHIN ALEXEI ; NAIMUSHIN ALEXEI N ; NARCISO HUGH ; SHINE DAVID ; SHINE DAVID B ; PHILLIP BURWELL ; SHAJN DEHVID B ; YEO NICK ; ZIHONG GUO

Inventor(s): YEO NICKGB ; SHINE DAVID BUS ; SHINE DAVID SAMMAMISH ; STEVEN R DALY ; NARCISO HUGHUS ; MATSON JENNIFER KUS ; LICHTTENEGGER GARY WOODINVILLE ; LICHTTENEGGER GARYUS ; GUO ZIHONG BELLEVUE ; GUO ZIHONGUS ; JAMES C CHEN ; CHEN JAMES BELLEVUE ; DALY STEVEN ROSSUS ; DALY STEVEN SAMMAMISH ; DAVID B SHINE ; BURWELL PHILLIP SNOHOMISH ; BURWELL PHILLIPUS ; BISHOP JEANUS

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SMART AND BIGGAR; BORDEN LADNER GERVAIS LLP; GRUENECKER PATENT U RECHTSANWAELTE PARTG MBB; GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAEUSSER; MICHAEL C KING LAW OFFICES OF RONALD M ANDERSON; SEED INTELLECTUAL PROPERTY LAW GROUP PLLC; LAW OFFICES OF RONALD M ANDERSON; RONALD M; TROUTMAN SANDERS 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

International class (IPC 8–9): A61B1/06 A61B17/00 A61B19/00 A61M25/00 A61M29/02 A61N1/00 A61N1/05 A61N5/00 A61N5/06 A61N5/067 F21S2/00 (Advanced/Invention);
A61B1/06 A61B17/22 A61B18/22 A61N5/06 A61N5/10 (Advanced/Non–invention);
A61B1/06 A61B17/00 A61M25/00 A61M29/02 A61N1/00 A61N1/05 A61N5/00 A61N5/06 F21S2/00 (Core/Invention);
A61B17/22 A61B18/20 A61N5/10 (Core/Non–invention);
A61B A61M (Subclass/Invention)

International class (IPC 1–7): A61M A61N1/00 A61N1/05 A61N5/00 A61N5/067 F21S2/00

CPC: A61N5/062 A61N2005/0652 A61B2017/22051 A61N5/0601 A61M2025/1047 A61N2005/1003 A61B2018/2261 A61N2005/0602 A61N2005/063

European class: A61N5/06B A61N5/06C8 K61B17/22H K61B18/22T2 K61M25/10Z2 K61N5/06B1 K61N5/06F K61N5/06T2A K61N5/10B1B

US class: 128/898 362/227 362/227P 362/227S 362/572 362/572P 600/160 600/160P 600/178 600/178P 600/408 600/408P 606/13 606/13S 606/15 606/194 606/194S 606/7 607/122 607/122P 607/88 607/88P 607/92 607/92P

Classification Explorer

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Forward Citations: WO16186578, WO16028644, WO15072152, WO14005001, WO12048891, WO11094541, WO11020064, WO10105242, WO10105242, WO09117727, WO09025826, WO08046015, WO07030478, WO07030478, WO07001701, WO06130365, WO06130365, WO06074078, WO05007216, US9668809, US9662509, US9659345, US9649477, US9649154, US9649153, US9638873, US9636258, US9629684, US9629656, US9615775, US9610428, US9603506, US9572480, US9554691, US9474831, US9468362, US9463068, US9457175, US9446179, US9433450, US9433437, US9427289, US9421311, US9421286, US9405078, US9405075, US9399121, US9398936, US9398933, US9381288, US9370649, US9370306, US9364593, US9364592, US9358369, US9351750, US9339618, US9327067, US9308361, US9308302, US9265549, US9265407, US9254195, US9254156, US9241834, US9220879, US9198736, US9179959, US9179823, US9167961, US9155492, US9149651, US9149648, US9149328, US9144442, US9125706, US9125643, US9107574, US9101678, US9101384, US9089258, US9084876, US9072626, US9063312, US9055965, US9052466, US9050440, US9039680, US9039657, US9017324, US9005263, US9005254, US9005195, US8980332, US8979888, US8968269, US8961508, US8961507, US8961495, US8961398, US8954134, US8951296, US8951225, US8945088, US8939977, US8936644, US8936401, US8936382, US8933416, US8932289, US8932276, US8915966, US8911439, US8906031, US8906030, US8905922, US8894614, US8888731, US8870965, US8870893, US8864787, US8858586, US8852143, US8828041, US8821489, US8808280, US8777943, US8777926, US8764786, US8764729, US8764726, US8764709, US8753304, US8747389, US8740929, US8740895, US8734718, US8734460, US8731672, US8721591, US8715169, US8706211, US8702640, US8702626, US8685071, US8685005, US8684965, US8672982, US8668701, US8647292,

US8585627, US8574233, US8535360, US8512338, US8500772, US8489192, US8485199, US8483831, US8480662, US8470010, US8460229, US8439687, US8435290, US8425457, US8414517, US8414473, US8388642, US8366652, US8343434, US8343086, US8317816, US8282593, US8235975, US8226946, US8226638, US8216173, US8190389, US8182432, US8172828, US8172827, US8170657, US8162924, US8146400, US8142422, US8123722, US8118757, US8114346, US8114113, US8114062, US8109981, US8100933, US8097028, US8090433, US8088127, US8088101, US8080000, US8078261, US8057464, US8029740, US7925332, US7912539, US7862219, US7730894, US7515957, US7449026, US7261730, US7135034, US2016128750, US2016059031, US2015133904, US2015109759, US2015018901, US2014369045, US2014180074, US2014012307, US2014005591, US2013324863, US2013267888, US2013184715, US2013041266, US2013023886, US2013013010, US2012161032, US2012101342, US2011190747, US2011160644, US2011160643, US2011152978, US2011152789, US2011152751, US2011152750, US2011144566, US2011009772, US2010318074, US2010274330, US2010249692, US2010241055, US2010241053, US2010241052, US2010241051, US2010241050, US2010241049, US2010234793, US2010210995, US2010174346, US2010174138, US2010145415, US2010145412, US2010097822, US2010008822, US2009227900, US2009216300, US2009177254, US2009163965, US2009163964, US2009125046, US2009118816, US2009117001, US2009112197, US2009112196, US2009048648, US2008208297, US2008194973, US2008082091, US2008033519, US2007293726, US2007260295, US2007219600, US2007219579, US2007208395, US2007167682, US2007142880, US2007135789, US2007129776, US2007073109, US2007038204, US2007032721, US2006282115, US2006195165, US2004263857, RU2615870, RU2608903, RU2559860, KR101548118, KR101485141, JP2010536475, JP2010506624, JP2009523549, EP2925406, EP2268196, EP1648562, CN105848713, AU2007307604, AU2007307604,

Abstract:
Source: US2005128742A A light generating device for illuminating tissue adjacent to a body lumen while a distal end of the device is centered in the lumen, to render photodynamic therapy. The device can either occlude or displace bodily fluid, both without the use of a balloon. In one embodiment, a flushing lumen has a port adjacent to an array of light sources, to displace bodily fluid that might otherwise absorb light. Another embodiment employs a centering member that moves between a first position and a second position. The centering member centers the device in the lumen and preferably is formed of a shape memory material. In yet another embodiment, the device includes an outer sheath and an inner member that are independently positionable, enabling the centering member to be selectively positionable. The centering member can be non porous, such that the centering member also occludes fluid flow.

0) US5375819A – DUAL IN–LINE HEIGHT CONTROL VALVE ASSEMBLY

143) Family number: 11053025 (US5375819A) © PatBase

Title: DUAL IN–LINE HEIGHT CONTROL VALVE ASSEMBLY

Priority: US19920974064 19921110 US19950454266 19950524 WO1994US09619 19940826 WO1993US09219 19930928 US19960721887 19960927

Family:

Publication number	Publication date	Application number	Application date
AU199453492 A1	19940608	AU19940053492	19930928
AU199477164 A1	19950418	AU19940077164	19940826
AU681699 B2	19970904	AU19940077164	19940826
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EP0667938 A4	19980204	EP19930923737	19930928
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WO9411650 A1	19940526	WO1993US09219	19930928
WO9509093 A1	19950406	WO1994US09619	19940826

Probable Assignee: HALDEX BRAKE CORP

Assignee(s):(std): NAI NEWAY INC ; PIERCE WILLIAM C ; GALAZIN GREGORY T

Assignee(s): HALDEX ACQUISITION CORP ; HALDEX BRAKE CORP ; B AND S HOLDING CORP ; BANK ONE MICHIGAN ; CITICORP USA INC ; CITICORP USA INC A DELAWARE CORP ; NEWAY CORP ; NEWAY ANCHORLOK INT ; HOLLAND NEWAY INT ; HOLLAND HITCH CO ; HOLLAND USA INC ; HOLLAND NEWAY INT INC ; NEWAY ANCHORLOK INT INC ; NAI NEWAY INC A DELAWARE CORP

Inventor(s):(std): GALAZIN GREGORY T ; PIERCE WILLIAM C

Inventor(s): WILLIAM C PIERCE ; GREGORY T GALAZIN

Agent(s): GRIFFITH HACK; BORDEN LADNER GERVAIS LLP

Designated states: AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IT JP KG KP KR KZ LI LK LT LU LV MC MD MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SI SK SN TD TG TT UA US UZ VN

International class (IPC 8–9): B60G17/052 B60G17/056 F16F15/04 F16F9/32 F16F9/348 F16F9/43 F16K15/06 F16K31/122 (Advanced/Invention); F16F15/04 F16F9/32 F16K31/122 (Advanced/Non–invention); B60G17/04 F16F15/04 F16F9/32 F16F9/34 F16F9/43 F16K15/02 F16K31/122 (Core/Invention)

International class (IPC 1–7): B60G11/27 B60G17/056 F15B13/04 F16F15/04 F16F9/32 F16F9/43 F16K11/16 F16K15/06 F16K31/122 F16K31/48 F16K31/524

CPC: Y10T137/86919 Y10T137/87064 B60G17/0525 B60G2500/2022 F16F9/348 F16F9/43

European class: B60G17/052V1 F16F9/348 F16F9/43 L60G500/2022

US class: 137/627.5 137/636.1 188/282 251/54 267/64.16 267/64.28 280/124.16 280/6.158 280/714

Classification Explorer

Cited documents: WO9411650 A1, US5375819 A, US5161817 A, US5161579 A, US4886092 A, US4726571 A, US3884454 A, US3858903 A, US3563270 A, US3335748 A, US3284142 A, US3140725 A, US3099461 A, US3044495 A, US3036596 A, US3006657 A, US2976053 A, US2947532 A, US2929621 A, US2929620 A, US2929619 A, US2929407 A, US2905462 A, SU1548088 T, GB845568 A, GB840649 A, GB1559681 A, FR807196 A, FR1246754 A, FR1208342 A, FR1197724 A, FR1190420 A, DE1242067 B, DE1112910 B, CH368205 A, CH368205, AT190810 B, AT190810,

Forward Citations: WO9509093, WO11034657, WO11034657, WO09131811, WO02096683, WO0114156, WO0103958, USD499173, USD498518, US8973922, US8585012, US7887065, US7438089, US7204478, US7192033, US7192032, US7178817, US7117890, US7028996, US6918600, US6783138, US6742542, US6202992, US6056694, US5860450, US5787932, US5682922, US2010213397, US2008252025, US2007089793, US2006267296, US2006175775, US2005200089, US2005127587, US2005098965, US2004201195, US2003197337, KR100706546, JP2013169894, JP2009202777, EP3037287, EP2810800, EP2754934, EP1980426, EP1533150, EP1109686, CN102007304, AU681699,

Abstract:
Source: US5375819A A valve assembly for controlling the delivery and exhaustion of pressurized air to and from an air spring. The valve assembly comprises a body having a valve bore with a coaxially open end, and a port in communication with the valve bore. The port is adapted to receive an air connection with an air spring. An actuator shaft, having a first end and a second end, is disposed coaxially in the valve bore for reciprocal movement between an actuating position and a rest position, and is biased toward the rest position. A valve block fixes within the valve bore and has an internal end and an external end. A coaxial bore extends from the internal end to the external end and slidably receives the actuator shaft second end. A stop chamber is disposed between the external end and the internal end. The valve block has a seat on the external end at the coaxial bore. An air passage communicates with the port and the coaxial bore. A stop member mounts on the actuator shaft within the stop chamber so that the actuator shaft second end will be spaced within the coaxial bore inwardly from the seat when the actuator shaft is in the rest position. Movement of the actuator shaft relative to the valve body is limited to the distance the stop moves within the stop chamber.

0) US2004249337A – MULTI–LUMEN CATHETER WITH PROTECTIVE SHEATH

144) Family number: 29581450 (US2004249337A) © PatBase

Title: MULTI–LUMEN CATHETER WITH PROTECTIVE SHEATH

Priority: US19990429857 19991029 US20000649680 20000828 US20090362073 20090129 US20040875454 20040624 WO2000US29522 20001027 US20040886403 20040706 WO2001US26849 20010828

Family:

Publication number	Publication date	Application number	Application date
AT361764 E	20070615	AT20000971024T	20001027
AU200080323 A5	20010514	AU20000080323D	20001027
AU2001288475 AA	20020313	AU20010288475	20010828
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AU200188475 A5	20020313	AU20010088475D	20010828
CA2389227 AA	20020425	CA20002389227	20001027
CA2407461 AA	20021101	CA20012407461	20010828
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WO0218004 A2	20020307	WO2001US26849	20010828
WO0218004 A3	20020530	WO2001US26849	20010828
WO0218004 B1	20020906	WO2001US26849	20010828

Probable Assignee: BARD INC C R

Assignee(s):(std)**:** BARD INC C R ; BARD ACCESS SYSTEMS INC ; BARD ACCESS SYSTEMS INC A SUBS

Assignee(s): BARD ACCESS SYSTEMS INC A SUBSIDIARY OF C R BARD I ; BARD ACCESS SYSTEMS INC A SUBSIDIARY OF C R BARD INC ; BARD ACCESS SYSTEMS INC A SUBSIDIARY OF CR BARD IN ; CR BARD INC ; IMPRA INC ; C R BARD INC ; IMPRA INC A SUBSIDIARY OF CR BARD INC ; BELUSKO VINCENT J ; DECANT LEONARD J JR ; BARD ACCESS SYSTEMS INC A SUBSIDIARY OF CR BARD INC ; DIFIORE ATTILIO E ; KESTER RAYMOND LEE JR ; DIFIORE ATTILIO ; CRBARD INC

Inventor(s):(std)**:** KESTER RAYMOND LEE JR ; KESTER LEE ; DIFIORE ATTILIO E ; DECANT LEONARD J JR ; DECANT LEONARD J ; BELUSKO VINCENT J ; DECANT JR LEONARD J ; DIFIORE ATTILIO ; DECANT LEONARD ; BELUSKO VINCENT

Inventor(s): KESTER JR RAYMOND LEE ; ATTILIO DIFIORE ; ATTILIO E DIFIORE ; RAYMOND LEE KESTER JR ; VINCENT J BELUSKO ; LEONARD J DECANT JR

Agent(s): FB RICE; SMART AND BIGGAR; CHIBA AKIO; MASUI CHUJI; HOSHINO OSAMU; SHAMOTO ICHIO; TOMITA HIROYUKI; KOBAYASHI YASUSHI; RUTAN AND TUCKER LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN 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 NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

International class (IPC 8–9): A61L2/16 A61M1/14 A61M1/16 A61M1/36 A61M25/00 A61M3/00 A61M37/00 A61M5/00 B32B37/00 (Advanced/Invention);
A61M1/16 A61M1/36 (Advanced/Non–invention);
A61L2/16 A61M1/14 A61M25/00 (Core/Invention);
A61M1/36 (Core/Non–invention)

International class (IPC 1–7): A61L2/16 A61M1/14 A61M25/00 A61M3/00 A61M3/02 A61M37/00 A61M5/00

CPC: A61M1/3659 A61M25/0069 A61M1/16 A61M1/3653 A61M25/0023 A61M25/003 A61M25/0032 A61M25/0068 A61M25/008 A61M2025/0031 A61M2025/0034 A61M2025/0037 A61M2025/0081 A61M25/0026 A61M2025/004

European class: A61M1/36C7 A61M25/00R1 A61M25/00R1M A61M25/00R1M8 A61M25/00T1 A61M25/00T10 A61M25/00T10A K61M1/16 K61M1/36C7D K61M25/00R1M10 K61M25/00R1M16 K61M25/00R1M20 K61M25/00R1M6 K61M25/00R1M6H K61M25/00R1M8 K61M25/00T30 K61M25/00T30S

US class: 156/244.11 156/244.110P 604/163 604/171 604/40 604/40P 604/43 604/43P 604/43S 604/523 604/528 604/528S 604/6.16

Classification Explorer

Cited documents: WOUS29522, WOUS29522, WOUS26849, WOUS26849, WOPCT/US00/29522, WO9717102 A1, WO0218004 A2, WO02092159 A1, WO02062407 A2, WO0132240 A1, USD384411 S1, USD381418 S1, USD367324 S1, USD272651 S1, US9429857 A, US745379 A, US6808510 BA, US6786884 BA, US6592569 BB, US6540714 BA, US6517529 BA, US6508790 BA, US6461321 BA, US6409700 BA, US6280423 BA, US6190371 BA, US5961486 A, US5843031 A, US5830197 A, US5830196 A, US5814016 A, US5810789 A, US5810787 A, US5807318 A, US5807311 A, US5797869 A, US5792094 A, US5779681 A, US5755702 A, US5738649 A, US5727555 A, US5722959 A, US5697914 A, US5693257 A, US5693025 A, US5693008 A, US5681288 A, US5676656 A, US5672158 A, US5665067 A, US5624392 A, US5607462 A, US5599322 A, US5599305 A, US5571093 A, US5486159 A, US5474534 A, US5472417 A, US5451516 A, US5451233 A, US5451216 A, US5451206 A, US5431639 A, US5423762 A, US5417665 A, US5409461 A, US5395316 A, US5378230 A, US5374245 A, US5348536 A, US5256150 A, US5250038 A, US5242398 A, US5221256 A, US5221255 A, US5197951 A, US5171216 A, US5167623 A, US5106368 A, US5092846 A, US4995865 A, US4986807 A, US4913704 A, US4895561 A, US4892561 A, US4892518 A, US4842582 A, US4810247 A, US4808155 A, US4770652 A, US4758336 A, US4693257 A, US4692141 A, US4643711 A, US4634433 A, US4626240 A, US4623327 A, US4619643 A, US4594074 A, US4583968 A, US4568329 A, US4552554 A, US4551137 A, US4547194 A, US4516970 A, US4515592 A, US4496347 A, US4495347 A, US4490143 A, US4410320 A, US4392853 A, US4390017 A, US4388076 A, US4381011 A, US4311140 A, US4270542 A, US4134402 A, US3881254 A, US3753439 A, US3606889 A, US3595230 A, US1879249 A, US1696018 A, GB745379 A, FR900765 A, FR900.765, EP0495263 A1, EP0495236 A1, EP0 495 263, CA1150122 A1, CA1 150 122,

Forward Citations: WO16139597, WO13158770, WO11068734, WO10102817, WO09131583, WO08008217, WO08008217, WO05082442, WO04091711, WO04091711, USD748252, USD603044, USD581529, USD541936, US9669149, US9656043, US9656041, US9642962, US9610422, US9597480, US9585784, US9579488, US9579485, US9572956, US9554814, US9526861, US9498271, US9468488, US9468461, US9447892, US9387304, US9333321, US9326782, US9314587, US9308019, US9237897, US9233200, US9192710, US9186169, US9174019, US9168355, US9155862, US9155860, US9149602, US9149601, US9131956, US9126011, US9089666, US9084850, US9072867, US9060802, US9044576, US9044573, US9028441, US9017309, US9017242, US9005225, US9005154, US8992454, US8986281, US8986263, US8961494, US8951218, US8894607, US8894601, US8876752, US8864724, US8808227, US8764819, US8753320, US8747343, US8709028, US8708956, US8696614, US8679074, US8641666, US8636712, US8632556,

US8597275, US8597258, US8591450, US8585660, US8540685, US8540661, US8529523, US8523821, US8517978, US8512310, US8500939, US8500674, US8496679, US8496622, US8496607, US8469989, US8454574, US8454565, US8419693, US8394218, US8377011, US8343104, US8343091, US8337470, US8337425, US8328768, US8323261, US8323228, US8323227, US8317773, US8292841, US8257321, US8206371, US8202246, US8187324, US8187234, US8187231, US8172863, US8152951, US8092415, US8083727, US8083721, US8079987, US8066693, US8066660, US8048059, US8034035, US8025655, US8021321, US8007490, US7993327, US7988658, US7976518, US7938819, US7938795, US7922757, US7922712, US7918870, US7846127, US7833194, US7799014, US7776005, US7682353, US7621923, US7615034, US7569029, US7566316, US7517343, US7503328, US7485107, US7458955, US7390323, US7390322, US7311698, US7223254, US7204831, US7182746, US7141035, US7097635, US7090654, US7077829, US7074213, US7011645, US6808510, US6786884, US2014350463, US2014128848, US2014018772, US2013267780, US2013110083, US2011257608, US2011245806, US2011137266, US2011106054, US2010258134, US2010228178, US2010152698, US2010076406, US2009247927, US2009221950, US2009209940, US2009205189, US2009204079, US2009204052, US2009157051, US2009136895, US2009126867, US2009124899, US2009118701, US2009118661, US2009105690, US2009093794, US2009048577, US2009005741, US2008319423, US2008319419, US2008312578, US2008287911, US2008208075, US2008172011, US2008154186, US2008135052, US2008132924, US2008108975, US2008097341, US2008065004, US2008039774, US2008033371, US2008027414, US2008021417, US2008009804, US2008009784, US2007282306, US2007213812, US2007123935, US2007088369, US2007016124, US2006253088, US2006253063, US2006207602, US2006184156, US2006100572, US2005288623, US2005277862, US2005267400, US2005228339, US2005182354, US2005182352, US2005171488, US2005070842, US2004254562, US2004249338, US2004249337, US2004193102, US2004163980, US2004158231, US2003093029, US2003093027, US2003060807, US2003018293, ITMI20102120, EP2857058, EP2277579, EP2228090, EP2138200, EP1690563, EP1690563, EP1689478, EP1443999, EP1420845, EP1357960, CN102421476, AU2003226132,

Abstract:
Source: US2004249337A A catheter apparatus for delivery of fluids to and/or withdrawal of fluids from a blood vessel in a body includes a catheter having at least two lumens and a sheath attached to the proximal end of the catheter. The sheath is positionable over an entire length of the catheter while the catheter is within the blood vessel and is adapted for direct attachment to the body. The sheath may provide protective and/or sterilization functions for the multi−lumen catheter.

0) US2009099647A – MULTI–COMPONENT VASCULAR DEVICE

145) Family number: 43145170 (US2009099647A) © PatBase

Title: MULTI–COMPONENT VASCULAR DEVICE

Priority: US20070974398 20071012 US20160206549 20160711 WO2008US75558 20080908

Family:

Publication number	Publication date	Application number	Application date
CA2702249 AA	20090416	CA20082702249	20080908
CA2702249 C	20150721	CA20082702249	20080908
EP2207500 A1	20100721	EP20080799289	20080908
EP2207500 A4	20150422	EP20080799289	20080908
US2009099647 AA	20090416	US20070974398	20071012
US2016317135 AA	20161103	US20160206549	20160711
US9414842 BB	20160816	US20070974398	20071012
WO09048700 A1	20090416	WO2008US75558	20080908

Probable Assignee: ST JUDE MEDICAL CARDIOLOGY DIV INC

Assignee(s):(std)**:** AGA MEDICAL CORP ; GLIMSDALE MATT C ; HEIDNER MATT C ; PIGNATO PAUL A ; ST JUDE MEDICAL CARDIOLOGY DIV INC

Assignee(s): ST JUDE MEDICAL CARDIOLOGY DIVISION INC ; LEHMAN COMMERCIAL PAPER INC ; BANK OF AMERICA NA

Inventor(s):(std)**:** GLIMSDALE MATT C ; HEIDNER MATT C ; PIGNATO PAUL A

Agent(s): RIDOUT AND MAYBEE LLP; CHARIG RAYMOND JULIAN; AGA MEDICAL CORP; ARMSTRONG TEASDALE LLP; ALBRECHT RALPH P 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 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 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

International class (IPC 8–9): A61B17/00 A61B17/08 A61B17/12 A61F2/01 A61F2/06 A61M29/00 (Advanced/Invention); A61F2/06 A61M29/00 (Core/Invention)

CPC: A61B17/12036 A61B17/12109 A61B17/12113 A61B17/12122 A61B17/12172 A61B2017/00473 A61B2017/00526 A61B2017/00575 A61B2017/00867 A61B2017/12054 A61B2017/12095 A61F2/01 A61B17/0057 A61B17/12022

European class: A61B17/00P A61B17/12P A61B17/12P1P A61B17/12P5B A61B17/12P5B1 A61B17/12P5H A61B17/12P7W1 K61B17/00H6 K61B17/00M K61B17/00P5 K61B17/00S12 K61B17/12P2

US class: 1/1 606/200 606/200S 623/1.35 623/1.350P

Classification Explorer

Cited documents: US7001409 BB, US6682546 BB, US6663607 BB, US6638257 BB, US6599308 BB, US6579303 BB, US6506204 BB, US6468303 BA, US6447531 BA, US6368339 BA, US6123715 A, US5944738 A, US5846261 A, US5827285 A, US5725552 A, US2008281350 AA, US2008065148 AA, US2007293891 AA, US2007293889 AA, US2007265658 AA, US2007265656 AA, US2007233186 AA, US2007179527 AA, US2007106328 AA, US2006259127 AA, US2006247680 AA, US2006241690 AA, US2006241687 AA, US2006106418 AA, US2005228434 AA, US2005222488 AA, US2004167597 AA, US2003187495 AA, US2003149463 AA, US2003100920 AA, US2003055455 AA,

Forward Citations: WO15109235, WO14143368, WO14078698, WO14011865, WO13119500, WO13103888, WO12178089, WO12003317, WO11068915, US9642993, US9636204, US9636116, US9629635, US9597204, US9597088, US9597087, US9592068, US9592058, US9585669, US9572652, US9554804, US9526638, US9517148, US9492174, US9487890, US9474516, US9468442, US9463105, US9463101, US9456812, US9451965, US9427339, US9427304, US9393022, US9358371, US9314324, US9314248, US9295571, US9295472, US9277995, US9259337, US9259237,

US9247942, US9232997, US9211116, US9205236, US9198670, US9179995, US9179931, US9179920, US9179918, US9173659, US9161758, US9149277, US9131941, US9113890, US9107669, US9095344, US9095342, US9089332, US9060886, US9039726, US9034007, US9017351, US9005155, US8984733, US8951223, US8932321, US8932320, US8926681, US8910555, US8904914, US8895891, US8882797, US8882697, US8872068, US8870910, US8870901, US8869670, US8866049, US8863631, US8859934, US8858613, US8852227, US8845679, US8845678, US8828045, US8816247, US8813625, US8803030, US8795330, US8790365, US8789452, US8784469, US8784446, US8783151, US8764787, US8752258, US8747597, US8745845, US8740962, US8728117, US8460372, US2015272589, US2015150563, US2015066077, US2014288634, US2014142617, US2013296912, US2013245667, US2013178886, US2013158594, US2013006343, US2012271337, US2011265943, US2011190874, US2011184453, US2011130826, US2011130825, US2011130824, US2011130820, US2011071624, US2011071623, US2010305686, US2010298755, US2010106235, US2010023105, JP2015522360, JP2015504335, JP2013514157, GB2510151, GB2510151, EP3146903, EP2588026, EP2496299, EP2496299, CN104797206, CN104768476, CN104039246, CN103260548, AU2013345255,

Abstract:
Source: US2009099647A A vascular occlusion, flow restriction, shunt or filter device is disclosed comprising the assembly of at least two, of a number of selectable discrete interconnectable, interchangeable components, at least one component being of the type fabricated from metal strands braided into a tubular metal fabric having an expanded preset configuration and an elongated, collapsed reduced diameter configuration for delivery through a catheter to a treatment site and the device shaped to create an occlusion, flow restriction or shunt when placed in an opening in a body organ or vessel, the woven metal fabric having a memory property whereby the medical device tends to return to said expanded preset configuration when unconstrained.

0) US2011160652A – MODULAR SKIN–ADHERABLE SYSTEM FOR MEDICAL FLUID...

146) Family number: 43839409 (US2011160652A)

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Title: MODULAR SKIN–ADHERABLE SYSTEM FOR MEDICAL FLUID DELIVERY

Priority: CN200980120975 20090407 CN2009801209755 20090407 US20080123509P 20080409 US20080123509 20080409 US20090937044 20090407 US20110937044 20110225 WO2009IL00388 20090407 US20130063751 20131025

Family:

Publication number	Publication date	Application number	Application date
AU2009235064 AA	20091015	AU20090235064	20090407
CN102083483 A	20110601	CN200980120975	20090407
CN102083483 B	20130724	CN200980120975	20090407
CN103127573 A	20130605	CN201310002291	20090407
CN103127573 B	20150325	CN201310002291	20090407
EP2300077 A2	20110330	EP20090730599	20090407
HK1186134 A1	20160324	HK20130113498	20131204
JP2011516196 T2	20110526	JP20110503547T	20090407
JP5506780 B2	20140528	JP20110503547T	20090407
US2011160652 AA	20110630	US20090937044	20090407
US2014052055 AA	20140220	US20130063751	20131025
US8568361 BB	20131029	US20090937044	20090407
US9486574 BB	20161108	US20130063751	20131025
WO09125398 A2	20091015	WO2009IL00388	20090407
WO09125398 A3	20100218	WO2009IL00388	20090407

Probable Assignee: FHOFFMANN LA ROCHE AG

Assignee(s):(std)**:** HOFFMANN LA ROCHE ; NETA AVRAHAM ; MEDINGO LTD ; YODFAT OFER ; SHALEV YOSSI ; ROCHE DIAGNOSTICS OPERATIONS INC ; ROCHE DIABETES CARE INC ; ARNOLD OFER ; DAN YAIR

Assignee(s): F HOFFMANN LA ROCHE AG ; FHOFFMANN LA ROCHE AG

Inventor(s):(std)**:** ARNOLD OFER ; ARNOLD OFER O ; AVRAHAM NETA ; DAN YAIR ; DAN YAIR Y ; NETA AVRAHAM ; NETA AVRAHAM A ; OFER ARNOLD ; OFER YODFAT ; SHALEV YOSSI ; YAIR DAN ; YODFAT OFER ; YODFAT OFER O ; YOSSI SHALEV ; YOSSI SHALEV Y

Agent(s): WRAYS; EVENS PAUL JONATHAN; MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO PC; DINSMORE AND SHOHL LLP

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 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 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

International class (IPC 8–9): A61M1/36 A61M37/00 A61M5/14 A61M5/142 A61M5/145 A61M5/148 A61M5/168 A61M5/315 (Advanced/Invention);
A61M5/142 A61M5/168 A61M5/31 (Advanced/Non–invention);
A61M5/14 A61M5/145 (Core/Invention);
A61M5/142 A61M5/168 (Core/Non–invention);
A61M (Subclass/Invention)

CPC: A61M5/1456 A61M5/1413 A61M5/14248 A61M5/16854 A61M5/1684 A61M5/3129 A61M2005/1402 A61M2005/14252 A61M2005/14268 A61M2005/14573 A61M2005/314 A61M2205/186 A61M2205/3306 A61M2205/3365 A61M2205/3389 A61M2205/3569 A61M2205/3592 A61M2209/045

European class: A61M5/142P2 A61M5/145B10 A61M5/14M K61M205/18R K61M205/33R K61M205/35R3 K61M205/35T2 K61M209/04F K61M5/142P2N K61M5/142P6 K61M5/145B14 K61M5/14A6 K61M5/168D3 K61M5/168D4 K61M5/31C K61M5/31C5

US class: 604/152 604/155 604/155S 604/66 604/66P 604/67

Classification Explorer

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Forward Citations: WO16115464, WO16090265, WO15172828, WO14154777, WO12153295, WO12153295, WO12059209, WO12040528, WO11090629, WO11089600, WO11033509, WO10076792, WO10055504, WO10026580, USD747799, US9610405, US9597451, US9592337, US9572926, US9572924, US9566383, US9554967, US9545474, US9522234, US9518813, US9511190, US9511187, US9498573, US9492610, US9457145, US9452261, US9446185, US9421323, US9421321, US9393365, US9393363, US9381300, US9345836, US9320849, US9308320, US9259532, US9254359, US9248232, US9248231, US9227010, US9216249, US9199031, US9173997, US9166313, US9149575, US9138534, US9138531, US9125983, US9089636, US9072828, US9072827, US9039659, US9039653, US9011164, US8998858, US8970384, US8932256, US8915879, US8905972, US8900190, US8900189, US8882710, US8845613, US8821443, US8777901, US8773257, US8734383, US8728034, US8696629, US8632497, US8615281, US8500692, US8491529, US8480649, US8430849, US8361053, US8337486, US8308679, US8070726, US7914499, US2015065959, US2014207099, US2013310753, US2013310738, US2013296971, US2012184907, US2012078181, US2012078170, US2012022453, US2010280499, JP5986103, JP2016147084, JP2014507186, JP2013512702, EP2618867, EP2453972, CN104411347, CN103702697, CN102809591, CN102809591, CN102805887, CN102770171, CN102770171, CN102698338,

Abstract:
Source: US2011160652A Disclosed is a portable therapeutic fluid dispensing device. The fluid dispensing device includes a reusable part (100) comprising a reusable part housing including at least a controller and a first portion (186) of a driving mechanism, and a disposable part (200) comprising a disposable part housing including at least a reservoir (220) to retain therapeutic fluid, an outlet port to which the therapeutic fluid is dispensed, a fluid conduit providing fluid communication between the reservoir and the outlet port, and a second portion (112) of the driving mechanism. At least a portion of the disposable part housing defines at least a portion of the reservoir. Also, the second portion of the driving mechanism is mechanically couplable to the first portion of the driving mechanism upon connection of the disposable part to the reusable part.

147) Family number: 63985891 (WO16180426A1) © PatBase

Title: OCCLUSION DEVICE FOR REVERSIBLE OCCLUSION OF A BIOLOGICAL TUBE

Priority: EP20150167312 20150512

Family:

Publication number	Publication date	Application number	Application date
EP3092981 A1	20161116	EP20150167312	20150512
WO16180426 A1	20161117	WO2016DK50129	20160512

Probable Assignee: VASDEBLOCK MEDICAL APS

Assignee(s):(std)**:** VASDEBLOCK MEDICAL APS

Inventor(s):(std)**:** LINDEBURG NIELS

Agent(s): AWAPATENT A S; RORDAM TROELS PETER 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

International class (IPC 8–9): A61F6/20 (Advanced/Invention)

CPC: A61F6/20

Classification Explorer

Cited documents: US4052754 A, US3648683 A, US2010192959 AA, US2003066533 AA, EP2404580 A1,

Abstract:
The present invention relates to an occlusion device (10) for blocking a biological tube, the biological tube being prone to a peristaltic wave having a wave length, and where the occlusion device comprises at least two sections (11, 12, 13), where each section (11, 12, 13) is connected by at least one narrowing (18, 19) to at least one other section. Especially the invention relates to reversible contraception of female and/or male gendered species, which is often achieved by methods of surgery, intervening with the biological tube, which are responsible for transportation of fertility fluids, such as the transportation of spermatozoes or oocytes in for example the human reproductive system.

148) Family number: 43820451 (US2003009177A) © PatBase

Title: METHOD OF MANIPULATING MATTER IN A MAMMALIAN BODY

Priority:

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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: MEDTRONIC INC

Assignee(s):(std)**:** MEDTRONIC INC ; MEDTRONIC VASCULAR INC ; RAYCHEM CORP

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Agent(s): GRIFFITH HACK; MARKS AND CLERK; HUGHES ANDREA MICHELLE; MEDTRONIC VASCULAR INC IP LEGAL DEPARTMENT; MARC

Designated states: AT AU BE CA CH DE DK ES FR GB GR IT JP KR LI LU NL SE

International class (IPC 8–9): A61B10/00 A61B10/02 A61B10/06 A61B17/00 A61B17/02 A61B17/04 A61B17/06 A61B17/08 A61B17/10 A61B17/12 A61B17/138 A61B17/22 A61B17/221 A61B17/26 A61B17/28 A61B17/30 A61B17/32 A61B17/3201 A61B17/34 A61B18/08 A61B18/14 A61F11/00 A61F2/00 A61F2/16 A61M25/00 B25B9/00 B25J1/00 B25J15/08 B25J18/06 B25J19/00 B26B13/00 B26B13/26 (Advanced/Invention); A61B10/06 A61B17/00 A61B17/06 A61B17/30 A61B17/34 A61B18/14 A61F2/00 (Advanced/Non–invention); A61B10/00 A61B10/02 A61B17/02 A61B17/03 A61B17/04 A61B17/12 A61B17/22 A61B17/28 A61B17/32 B25B9/00 B25J1/00 B25J15/08 B26B13/00 (Core/Invention); A61B17/00 A61B17/06 A61B17/30 A61B17/34 A61B18/14 A61F2/00 (Core/Non–invention)

International class (IPC 1–7): A61B10/00 A61B17/00 A61B17/02 A61B17/04 A61B17/06 A61B17/08 A61B17/10 A61B17/12 A61B17/22 A61B17/28 A61B17/32 A61B17/38 A61B17/56 A61B18/08 A61B18/12 A61M25/00 B25B9/00 B25J1/00 B25J15/08 B25J18/06 B25J19/00 B26B13/00 B26B13/26

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European class: A61B10/02 A61B17/00E A61B17/02E A61B17/04E A61B17/062N A61B17/08 A61B17/10 A61B17/12L2 A61B17/221 A61B17/29 A61B17/295 A61B17/3205S A61B17/32E A61B18/08B B25B9/00 B26B13/26 K61B10/06 K61B17/00E2 K61B17/00E5 K61B17/00E6 K61B17/00F2T K61B17/00G14 K61B17/00S12 K61B17/02E K61B17/04A5 K61B17/06B K61B17/06S2 K61B17/08 K61B17/10 K61B17/12L2 K61B17/221C K61B17/221P K61B17/22K K61B17/29F6 K61B17/29J2 K61B17/29J6C4 K61B17/29J6C6 K61B17/29J6R K61B17/30 K61B17/30D K61B17/3201 K61B17/3211G K61B17/32T K61B17/34G4 K61B17/38E8 K61B18/00H12B K61B18/00H2 K61B18/08B2 K61B18/10 K61B18/14C2 K61B19/48H8 K61F2/30A1W20B K61F210/00D2

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Abstract:
Source: US2003009177A The invention provides a method of using an apparatus for manipulating matter in a confined or inaccessible space, comprising providing an apparatus having manipulator means at least partly constructed of one or more bent or twisted elongate shape memory alloy members having pseudoelasticity at the intended manipulation temperature, and a hollow housing or cannula capable of holding at least the shape memory alloy member(s) in a relatively straightened state, and actuating means for extending the shape memory alloy member(s) from the housing to manipulate matter within the space and for withdrawing the shape memory alloy member(s) into the housing, the arrangement being such that the shape−memory alloy member(s) bend(s) or twist(s) pseudoelastically in a lateral or helical sense to manipulate the matter on extending from the housing at the manipulation temperature, and become(s) relatively straightened on withdrawal into the housing at the temperature.

0) US5676346A – NEEDLELESS CONNECTOR VALVE

149) Family number: 31048127 (US5676346A) © PatBase

Title: NEEDLELESS CONNECTOR VALVE

Priority:

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EP19980101414 19980127
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Family:

Publication number	Publication date	Application number	Application date
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Agent(s): GRIFFITH HACK; SMART AND BIGGAR

Designated states: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

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A61J3/00 A61M39/02 A61M39/04 A61M5/162 (Advanced/Non–invention);
A61J1/14 A61M25/01 A61M37/00 A61M39/00 A61M39/02 (Core/Invention);
A61M39/02 (Core/Non–invention);
A61M (Subclass/Invention)

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AU745441, AU743705, AU737266, AU2009327368, AU2004285367, AU2003299981, AU2003279959, AU2003217342, AU2003217342, AU2002359895,

Abstract:
Source: US5676346A A valve mechanism for a needleless connector employs a deformable piston having a piston head of elliptical cross−section with a marquise−shaped bore formed along its longitudinal axis wherein the major axes of the respective generally elliptical shapes are oriented perpendicular to one another. The piston head is captured within the connector housing and is reciprocal between a section of reduced diameter adjacent the connection port and a section of enlarged diameter. Constraining the piston head into the section of reduced diameter causes the elliptical bore to be squeezed shut while positioning the piston head in the section of enlarged diameter causes the piston head to relax and assume its natural elliptical shape, while the bore similarly regains its natural open shape to provide a fluid path therethrough. A compressible or extendible section affixed to the piston head serves to bias the piston into the section of reduced diameter. A tapered section of the piston contacts the housing to secure the top of the piston flush with the top of the housing for ease in cleaning.

150) Family number: 30085770 (US2002007190A) © PatBase

Title: Intralumenal material removal systems and methods

Priority:

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Family:

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Probable Assignee: BOSTON SCIENT LTD

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Inventor(s): AUTH DAVIDUS ; WULFMAN EDWARD TORRANCE CASEY NISTAL BRENT YOUMANS ; DAVID AUTH ; CRAIG LAWSON ; CLEMENT THOMASUS ; LAWSON CRAIGUS ; HEFNER MATTUS ; NISTAL BRENTUS ; MICHEL KLIOT ; YOUMANS SCOTTUS ; WULFMAN EDWARDUS ; WULFMAN EDWARD TORRANCE CASEY NISTAL BRENT... ; WULFMAN EDWARD TORRANCE CASEY NISTAL BRENT YOUMANS SCOTT HEFNER MATT ; TORRANCE CASEYUS ; THOMAS CLEMENT

Agent(s): PETER MAXWELL AND ASSOCIATES; SMART AND BIGGAR; SCHNEIDER FELDMANN AG PATENT– UND MARKENANWAELTE; SPECKMAN LAW GROUP PLLC; SLEATH JANET; SPECKMAN ANN W; JANET; ANN W; SEAGER TUFTE AND WICKHEM LLC

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

International class (IPC 8–9): A61B17/00 A61B17/14 A61B17/22 A61B17/32 A61B17/3207 A61B5/00 A61B5/06 A61B8/00 A61F2/00 A61M1/00 A61M25/00 A61M25/01 A61M25/09 A61M25/18 A61M27/00 A61M29/00 A61M31/00 A61M37/00 A61M39/06 (Advanced/Invention); A61B1/01 A61B17/00 A61B17/22 A61B17/28 A61B17/29 A61B17/32 A61B17/34 A61B8/12 A61M1/00 (Advanced/Non–invention); A61B17/00 A61B17/22 A61B17/32 A61F2/00 A61M25/00 A61M25/09 A61M27/00 A61M29/00 A61M39/02 (Core/Invention); A61B1/005 A61B17/00 A61B17/28 A61B17/32 A61B17/34 A61B8/12 A61M1/00 (Core/Non–invention)

International class (IPC 1–7): A61B17/14 A61B17/22 A61B17/32 A61F A61F2/00 A61M25/00 A61M25/16 A61M27/00 A61M29/00 A61M31/00 B65D85/30 F16H47/04

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US class: 475/331 475/331P 600/141 600/142 604/22 604/35 604/43 604/506 604/510 604/528 604/533 604/533P 604/93.01 604/93.010P 604/95.01 606/159 606/159P 606/167 606/167P 606/167S 606/170 606/170P 606/171 606/171.1 606/180 606/180S

Classification Explorer

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Abstract:
Source: US2002007190A Intralumenal material removal systems are provided. The intralumenal material removal system includes a cutter assembly positionable in the lumen of a mammalian subject and operably connected to system controls. One composite cutter assembly comprises a distal, fixed diameter cutter and a proximal, adjustable diameter cutter, the cutter assembly being axially advanceable by translating the drive shaft and rotatable by rotating the drive shaft. The adjustable cutting assembly is adjustable between a smaller diameter condition and a larger diameter condition by rotation of the drive shaft in opposite directions. The cutter may thus be introduced to and withdrawn from the material removal site in a retracted, smaller diameter condition that facilitates translation and navigation of the device through various lumens. The adjustable cutting assembly may be selectively expanded at the material removal site to facilitate cutting, removal and aspiration of the occlusive material. Temperature sensing at the material removal site and automated control features are also disclosed.

- **search:** SS2 FT=occlu* and hollow and (channel or passage or bore) and (ovar* or fallopian) (Results 56)
- List: SS2 1–50 (FT=occlu* and hollow and (channel or passage or bore) and (ovar* or fallopian)) (Results 56)

0) US2012283758A – METHOD AND APPARATUS FOR TREATING VARICOSE VEIN...

1) Family number: 51553198 (US2012283758A) © PatBase

Title: METHOD AND APPARATUS FOR TREATING VARICOSE VEINS

Priority: US20110431609P 20110111 US20120348416 20120111 US20130857424 20130405 US20120620787P 20120405 US20120643092P 20120504 US20130820589P 20130507 US20130888165 20130506 US20140272304 20140507 US20150639814 20150305 US20140948241P 20140305 US20140084989P 20141126 US20150203655P 20150811 US20150267883P 20151215 US20150267825P 20151215 WO2012US20973 20120111 WO2014US37199 20140507 US20150966768 20151211 US20160013552 20160202 US20160044323 20160216 US20160272749 20160922 US20160226577 20160802 US20160298724P 20160223 US20160350872 20161114 US20160380245 20161215 US20160361547P 20160713 US20160306932P 20160311 US20160303071P 20160303 US20160299662P 20160225 US20160299444P 20160224 US20160276042P 20160107 WO2015US19001 20150305

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Probable Assignee: AMSEL MEDICAL CORP

Assignee(s):(std)**:** AMSEL MEDICAL CORP ; LORE AVRAHAM RAMI ; MILLER ARNOLD ; MILLER RAANAN A

Inventor(s):(std)**:**

EDELMAN WILLIAM ; LILACH NIR ; LORE AVRAHAM RAMI ; MILLER AMOLD ; MILLER ARNOLD ; MILLER RAANAN ; MILLER RAANAN A

Agent(s): ENGELHARDT AND ENGELHARDT; CARTER STEPHEN JOHN; YAMAMOTO OSAMU; TAKEUCHI SHIGEO; ONO SHINJIRO; KOBAYASHI YASUSHI; PANDISCIO MARK J; LEONARDO MARK 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

International class (IPC 8–9): A61B17/00 A61B17/08 A61B17/12 A61B17/122 A61B17/128 A61B18/14 A61F2/01 A61F2/24 A61M16/00 (Advanced/Invention); A61B17/00 A61B17/064 (Advanced/Non–invention)

CPC: A61B17/0643 A61B2017/12095 A61B17/064 A61B17/068 A61B2017/00557 A61B2017/0647 A61B2017/0649 A61B2017/12004 A61B17/12099 A61B17/12109 A61B2017/00871 A61B2017/1205 A61F2/2436 A61F2002/011 A61F2002/016 A61F2220/005 A61F2230/0002 A61F2250/0068 A61B17/12031 A61B2017/00893 A61B2017/0464 A61B17/1227 A61B2018/00404 A61B2018/00595 A61B17/12131 A61B17/12027 A61B18/14 A61B17/12036 A61B17/00008 A61B17/12013 A61B17/1214 A61B2017/00986 A61B17/128 A61B17/12 A61B17/12009 A61B17/12145 A61B2017/12054 A61F2/01 A61B17/12022 A61B17/12136 A61B2017/00867 A61F2/2475 A61B17/00 A61B17/12122 A61B17/0057 A61B17/1222 A61B2017/00632 A61B2017/00623 A61B17/122 A61B2017/00004 A61B2017/00243 A61B2017/00367 A61B2017/00407 A61B2017/00526 A61B2017/0053 A61B2017/00876 A61B2017/2916 A61B2017/2923 A61B2090/0803 A61B2090/0807 A61B2090/3925 A61F5/0083 A61F6/20 A61B17/0482 A61B17/0686 A61B17/072 A61B17/07292 A61B17/1285 A61B2017/061 A61B2017/0688 A61B2090/08021

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Abstract:
Source: US2012283758A Apparatus for occluding a blood vessel, the apparatus comprising: an occluder, the occluder being configured so that at least a portion of the occluder may assume (i) a diametrically–reduced configuration for disposition within the lumen of a tube, and (ii) a diametrically–expanded configuration for disposition adjacent to the blood vessel, such that when said at least a portion of the occluder is in its diametrically–expanded configuration adjacent to the blood vessel, the occluder will cause occlusion of the blood vessel.

0) US2001041900A – OCCLUDING DEVICE AND METHOD OF USE

2) Family number: 42591969 (US2001041900A) © PatBase

Title: OCCLUDING DEVICE AND METHOD OF USE

Priority:
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Agent(s): FB RICE; WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; DENNISON ASSOCIATES; SIM AND MCBURNEY; DR SHLOMO COHEN AND CO; ROBERT D BUYAN STOUT UXA BUYAN AND MULLINS LLP; EDWARD J LYNCH DUANE MORRIS LLP; OPPENHEIMER WOLFF AND DONNELLY LLP; JOSE W; BARBARA A; WRIGLEY BARBARA A; BLAKELY SOKOLOFF TAYLOR AND ZAFMAN 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 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

International class (IPC 8–9): A61B17/00 A61B17/08 A61B17/12 A61B17/42 A61B19/00 A61F2/00 A61F2/06 A61F2/82 A61F2/84 A61F6/02 A61F6/06 A61F6/14 A61F6/20 A61F6/22 A61L29/00 A61M11/00 A61M31/00 (Advanced/Invention);
A61B17/00 A61B17/12 A61B17/42 A61B19/00 A61F2/00 A61F2/82 A61F6/06 A61M31/00 (Advanced/Non–invention);
A61B17/03 A61B17/12 A61B17/42 A61B19/00 A61F2/82 A61F6/00 A61M31/00 (Core/Invention);
A61B A61F (Subclass/Invention)

International class (IPC 1–7): A61B17/08 A61B17/12 A61B17/42 A61B19/00 A61F A61F11/00 A61F2/06 A61F6/02 A61F6/06 A61F6/14 A61F6/20 A61F6/22 A61M29/00 A61M29/02

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Abstract:
Source: US2001041900A A device for occluding a body lumen, and particularly contraceptive or sterilization device for occluding a reproductive tract or lumen to prevent the passage of reproductive cells through the tract or lumen, generally comprising a tubular member, and a mesh member, transversely disposed on the tubular member lumen. The mesh member is permeable to allow for tissue ingrowth, which produces a tissue impregnated mesh occluding the body lumen. The occluding device of the invention can be used in the fallopian tubes of a female patient, the vas deferens of a male patient, or other body lumen.

0) US2008047563A – INTRAUTERINE FALLOPIAN TUBE OCCLUSION DEVICE

3) Family number: 33276956 (US2008047563A) © PatBase

Title: INTRAUTERINE FALLOPIAN TUBE OCCLUSION DEVICE

Priority:

EP20120154156 20120207 US20050653743P 20050215 US20060884027 20060215
US20070884027 20070809 US20100856876 20100816 US20110294091 20111110
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US20150861300 20150922

Family:

Publication number	Publication date	Application number	Application date
AU2006214368 AA	20060824	AU20060214368	20060215
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AU2011293778 AA	20120301	AU20110293778	20110808
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CA2749007 C	20140401	CA20092749007	20090115
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CA2808445 C	20150616	CA20112808445	20110808
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US2009178682 AA	20090716	US20090353770	20090114
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US2012097172 AA	20120426	US20110294091	20111110
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US2013306079 AA	20131121	US20130949621	20130724
US2015068532 AA	20150312	US20140458525	20140813
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US7669601 BB	20100302	US20060884027	20060215
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US8662081 BB	20140304	US20100856876	20100816
US9016280 BB	20150428	US20120449753	20120418
US9180039 BB	20151110	US20110294091	20111110
US9492311 BB	20161115	US20140458525	20140813

US9510088 BB	20161129	US20130949621	20130724	
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WO12027090 A1	20120301	WO2011US46921	20110808	
WO12027090 A4	20120621	WO2011US46921	20110808	

Probable Assignee: CONTRAMED LLC

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Assignee(s): YALE UNIVERSITY ; CANTRAMED LLC ; YALE UNIV ; TRACY DENNIS CULVER

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Inventor(s): TRACY DENNIS CULVER ; GUTELIUS PATRICK ; DEBISSCHOP MARK ; TAL MICHAEL ; MARK J DEBISSCHOP ; MICHAEL G TAL ; OLEG SHIKHMAN ; PATRICK N GUTELIUS

Agent(s): PHILLIPS ORMONDE FITZPATRICK; CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD; MOFFAT AND CO; HALEY STEPHEN; GE EHRLICH 1995 LTD; WELSH AND FLAXMAN LLC; WELSH FLAXMAN AND GITLER LLC; FLAXMAN HOWARD N; FLAXMAN HOWARD N 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 QA RO RS RU 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 YU ZA ZM ZW

International class (IPC 8–9): A61F A61F6/06 A61F6/12 A61F6/14 A61F6/18 A61F6/20 A61F6/22 B60R11/02 H04R1/02 H04R1/24 H04R1/32 H04R5/02 (Advanced/Invention);
A61F6/00 (Core/Invention);
A61F (Subclass/Invention)

CPC: A61F6/144 A61F6/225 H04R1/323 B60R11/0217 H04R1/026 H04R1/24 H04R5/02 H04R2499/13 A61F6/142 A61F6/18 A61F6/20

European class: A61F6/14B A61F6/18 A61F6/20

US class: 1/1 128/830 128/831 128/833 128/839 128/839S 128/840 128/840S

Classification Explorer

Cited documents: WO9001310 A1, WO06088909 A2, US9016280 BB, US8662081 BB, US8181653 BB, US7669601 BB, US7621276 BB, US6705323 BA, US6346102 BA, US6042030 A, US5935137 A, US5555896 A, US5146931 A, US5095917 A, US4932421 A, US4628924 A, US4612924 A, US4537186 A, US4353363 A, US4117839 A, US4034749 A, US3918443 A, US3881475 A, US3845761 A, US3811435 A, US3805767 A, US3789838 A, US3716052 A, US3704704 A, US3687129 A, US3683906 A, US3683905 A, US3678927 A, US3659596 A, US3620212 A, US3507274 A, US3405711 A, US3391844 A, US3374788 A, US2009178682 AA, US2008302368 AA, US2008302268 AA, US2008264423 AA, US2005192616 AA, US2005171569 AA, US2005125022 AA, US2004009205 AA, US2003066533 AA, US2002198547 AA, US2001016738 AA, JPS6142914, JPS59214444, JP61042914 A2, JP59214444 A2, JP590214444, JP59021444 A2, IT1053357 A, FR2538243 A1, EP0208653 A1, EP0114440 A2, EP0070068 A2, EP0011143 B1, EP0011143 A1, DE4412311 A1, CH688984,

Forward Citations: WO16032406, WO15057291, WO14028499, WO14028499, WO12134648, WO12027090, WO11115753, WO11115753, WO09091560, US9662117, US9655557, US9636116, US9610191, US9526649, US9517159, US9510088, US9492312, US9492311, US9451965, US9427351, US9370656, US9265652, US9247942, US9180040, US9180039, US9149277, US9107669, US9095344, US9089418, US9072907, US9060771, US9017351, US9016280, US8992409, US8984733, US8961448, US8875712, US8874215, US8795153, US8764627, US8734318, US8701670, US8696745, US8696543, US8678997, US8662081, US8636809, US8602966, US8600510, US8556796, US8545384, US8509894, US8356600, US8322341, US8313423, US8290594, US8287444, US8181657, US8181653, US7772244, US7621276, US2015157836, US2014048074, US2014048073, US2013306079,

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Abstract:
Source: US2008047563A An occlusion device for actively occluding orifices of fallopian tubes includes a resilient body having an elongated member with a first end and a second end. The elongated member further includes a first leg ending with the first end of the elongated member, a second leg ending with the second end of the elongated member and a connection member positioned therebetween. A first orifice plug is secured at the first end of the elongated member and a second orifice plug is secured at the second end of the elongated member. The first and second orifice plugs are shaped and dimensioned to seat at the orifices of the fallopian tubes or within the fallopian tubes as the elongated member spreads outwardly with the first end and second end moving apart. A delivery device for delivery of medication or therapeutic agents to a uterine cavity is also disclosed.

4) Family number: 42256592 (US2002120276A) © PatBase

Title: FILAMENTOUS EMBOLIC DEVICE WITH EXPANSILE ELEMENTS

Priority:

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AU20080207620	20080829	AU20020344223	20020529	AU20060225285	20061006
EP20000967148	20000929	JP20010531033	20000929	AU20100200166	20100115
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Family:

Publication number	Publication date	Application number	Application date
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Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN

SZ TD TG TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

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Abstract:
Source: US2002120276A An embolization device includes one or more expansible, hydrophilic embolizing elements non−releasably carried along the length of a filamentous carrier that is preferably made of a very thin, highly flexible filament or microcoil of nickel/titanium alloy. At least one expansile embolizing element is non−releasably attached to the carrier. A first embodiment includes a plurality of embolizing elements fixed to the carrier at spaced−apart intervals along its length. In a second embodiment, an elongate, continuous, coaxial embolizing element is non−releasably i− fixed to the exterior surface of the carrier, extending along a substantial portion of the length of the carrier proximally from a distal tip. In either of the embodiments, the embolizing elements may be made of a hydrophilic, macroporous, polymeric, hydrogel foam material. In the second embodiment, the elongate embolizing element is preferably made of a porous, environmentally−sensitive, expansile hydrogel that expands, after a predetermined time delay, in response to a change in an environmental parameter, such as pH or temperature.

5) Family number: 29367069 (US2003009125A) © PatBase

Title: ULTRASONIC DEVICES AND METHODS FOR ABLATING AND REMOVING OBSTRUCTIVE MATTER FROM ANATOMICAL PASSAGEWAYS AND BLOOD VESSELS

Priority:

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Probable Assignee: ADVANCED CARDIOVASCULAR SYSTEM

Assignee(s):(std)**:** ADVANCED CARDIOVASCULAR SYSTEMS INC ; BAXTER INT ; SONICSTAR INTERNATIONAL LTD ; SONICSTAR INT LTD ; SIEGEL ROBERT J ; ADVANCED CARDIOVASCULAR SYSTEM

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Designated states: AT BE CA CH DE DK ES FR GB GR IE IT JP LI LU MC NL PT SE

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European class: A61B17/22B2 A61B18/24B G10K11/24 K61B17/00C1T6 K61B17/00C2A K61B17/00C4C2 K61B17/00K K61B17/00S12 K61B17/00S4T K61B17/00V K61B17/22B2B K61B17/22B2B2S K61B17/22G K61B17/22G1 K61B17/22G2 K61B17/22S2 K61B17/3207R K61B17/32U2 K61B17/32U6 K61B18/00A2 K61B18/00A2E K61B18/12G K61B19/54 K61B217/00Q16 K61B217/00Q18 K61F2/30A1W20 K61F2/30A1W20B K61F2/30A1W20D6 K61F210/00D K61F210/00D2 K61F210/00D4F K61M1/00T K61M25/01M K61M25/10P K61M3/02H

US class: 128/24AA 128/662.03 128/662.06 128/898 600/459 600/466 601/2 601/3 601/4 604/22 604/22P 604/48 604/49 604/500 604/508 604/509 604/515 604/517 604/52 604/523 604/97.01 606/1 606/128 606/159 606/159S 606/169 606/171 606/41 607/122 607/97

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Abstract:
Source: US2003009125A Disclosed are methods and devices for removing obstructive matter from anatomical passageways, including the removal of obstructive matter from the cerebral vasculature, prostatic obstructions from the urinary tract and/or obstructive matter from the fallopian tubes.

0) US2015007827A – OCCLUSION DEVICE WITH OPENABLE CHANNEL

6) Family number: 58190856 (US2015007827A) © PatBase

Title: OCCLUSION DEVICE WITH OPENABLE CHANNEL

Priority: US20130933982 20130702 US20140902797 20140529 WO2014US40081 20140529

Family:

Publication number	Publication date	Application number	Application date
AR096780 AA	20160203	AR2014P102458	20140701
AU2014284662 AA	20150108	AU20140284662	20140529
CA2917135 AA	20151230	CA20142917135	20140529
CL2015003779 A1	20160930	CL20150003779	20151230
CN105491980 A	20160413	CN201480047608	20140529
CO15309014 A2	20160620	CO20150309014	20151228
CR20160003 A	20160617	CR20160000003	20160104
EP3016622 A1	20160511	EP20140732787	20140529
HK1219648 A1	20170413	HK20160107829	20160706
JP2016526432 T2	20160905	JP20160523752T	20140529
KR20160029085 A	20160314	KR20167002440	20140529
MX2016000158 A1	20160615	MX20160000158	20140529
SG11201510453V A1	20160128	SG20151110453	20140529
US2015007827 AA	20150108	US20130933982	20130702
US2016166427 AA	20160616	US20140902797	20140529
WO15002709 A1	20150108	WO2014US40081	20140529

Probable Assignee: BAYER HEALTHCARE LLC

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Assignee(s): OZDIL FERIDUN ; STOUT CHRISTOPHER A

Inventor(s):(std)**:** OZDIL FERIDUN ; STOUT CHRISTOPHER A

Inventor(s): CHRISTOPHER A STOUT ; FERIDUN OZDIL

Agent(s): GRIFFITH HACK; FETHERSTONHAUGH AND CO; JOHANSSON AND LANGLOIS LTDA; JOSE ANDRES RINCON USCATEGUI; BIP PATENTS; SCHELLER JAMES C 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

International class (IPC 8–9): A61B17/42 A61B19/00 A61B90/00 A61F6/22 (Advanced/Invention); A61F (Subclass/Invention)

CPC: A61F6/225 A61F6/22 A61B2090/3966 A61B90/39

US class: 128/831

Classification Explorer

Cited documents: US8235047 BB, US6634361 BA, US6526979 BA, US6165193 A, US2013042873 AA, US2012192872 AA, US2011094519 AA, US2010006105 AA, US2009056722 AA, CN102665619 A,

Abstract:
Source: US2015007827A The various embodiments of the present invention provide implantable occlusion devices and methods of using the occlusion devices. In an embodiment, the occlusion devices include an openable channel to facilitate reversible female contraception.

0) US2003208223A – DEVICE INCORPORATING A HOLLOW ELEMENT FOR BEING...

7) Family number: 20918254 (US2003208223A) © PatBase

Title: DEVICE INCORPORATING A HOLLOW ELEMENT FOR BEING POSITIONED ALONG A BODY CAVITY OF A PATIENT AND METHOD OF POSITIONING THE SAME

Priority: AU20010246745 20010322 AU20060228085 20061013

Family:

Publication number	Publication date	Application number	Application date
AU2000006414 A0	20000415	AU2000PQ06414	20000323
AU2001246745 AA	20011003	AU20010246745	20010322
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AU200146745 A5	20011003	AU20010046745D	20010322
AU2006228085 AA	20061109	AU20060228085	20061013
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JP2003527900 T2	20030924	JP20010568491T	20010322
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WO0170297 A2	20010927	WO2001IB00444	20010322
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Probable Assignee: KLEINER D E

Assignee(s):(std)**:** DANIEL KLEINER ; KLEINER D E ; KLEINER DANIEL EDUARD ; KLEINER DANIEL

Assignee(s): DANIEL EDUARD KLEINER

Inventor(s):(std)**:** KLEINER DANIEL EDUARD

Inventor(s): DANIEL EDUARD KLEINER

Agent(s): ADAMS PLUCK; TSURUTA JUNICHI; NISHIYAMA MASAYA; HIGUCHI SOTOJI; ISHIDA TAKASHI

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN 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 NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

International class (IPC 8–9): A61B1/00 A61B1/01 A61B17/34 A61F2/06 A61F2/82 A61M25/00 A61M25/01 A61M25/10 A61M29/00 A61M31/00 (Advanced/Invention); A61B10/00 A61B10/04 A61B17/00 A61B17/12 A61B17/32 A61B19/00 A61F2/95 (Advanced/Non–invention); A61M29/00 (Core/Invention)

International class (IPC 1–7): A61B1/00 A61B1/005 A61M25/00 A61M25/01 A61M29/00 A61M31/00

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US class: 606/198 606/198P

Classification Explorer

Cited documents: WO9622122 A1, WO8705523 A1, US6039721 A, US5906587 A, US5730748 A, US5709657 A, US5374247 A, US5328469 A, US5171305 A, US4271839 A, US3589356 A, US3506011 A, US3433215 A, US3433214 A, US3168092 A, EP0515085 A2, DE2406823 A1,

Forward Citations:

WO15070095, WO14121207, WO09010964, WO09010964, WO06099738, WO06075319, US9566179, US9526641, US9457133, US9439662, US9427557, US9364356, US9339404, US9326876, US9254210, US9114037, US9101503, US9101391, US8986362, US8980297, US8979917, US8956398, US8945167, US8936634, US8926587, US8894680, US8845712, US8828071, US8827951, US8821562, US8808347, US8801774, US8795347, US8769796, US8740968, US8721674, US8702781, US8652198, US8585747, US8574282, US8556851, US8486132, US8460358, US8435282, US8388574, US8317859, US8282680, US8257427, US8177831, US8109985, US8083788, US8080048, US8070789, US8016871, US8016870, US7938852, US7922755, US7918881, US7905913, US7892274, US7892273, US7553324, US7402168, US7357812, US7351255, US7326236, US7309350, US7300456, US7294146, US7270668, US2015216559, US2015039011, US2015005724, US2012116491, US2011319924, US2011166637, US2011130784, US2010268076, US2010204639, US2010023106, US2009248137, US2009204069, US2009182411, US2009018486, US2009018446, US2008027421, US2007083158, JP2011120891, JP2011056251, JP2010000242, JP2009101177, JP2005511140, EP2950873, EP2563448, EP2563448, EP2236168, EP1654028, EP1549203, EP1460973, AU2002359588,

Abstract:
Source: US2003208223A There is provided apparatus (14) incorporating an elongate hollow element (22) for being positioned along a body cavity of a patient. The hollow element has a leading region and a trailing region and is arranged for being progressively everted along the hollow element from the leading region to thereby be increasingly extended for progressively lining the body cavity as the trailing region follows along. The apparatus generally further comprises an enclosure comprising an insertion head (16) for being inserted into an entrance of the body cavity and a flexible bag (18) in which the hollow element is housed. The hollow element is extended from the insertion head by increasing pressure within the enclosure. Methods for positioning the hollow element along the body are disclosed. The apparatus is particularly suitable for use as a tamponade device for use in the lower gastrointestinal tract for stemming internal bleeding.

8) Family number: 35864714 (US2009054875A) © PatBase

Title: GUIDE–WIRE SLEEVE FOR FACILITATION OF LESION CROSSING

Priority: US20060775327P 20060222 US20070280379 20070222 WO2007CA00285 20070222 US20130135656 20131220 US20080280379 20081111 US20130773878P 20130307

Family:

Publication number	Publication date	Application number	Application date
EP1991141 A1	20081119	EP20070710640	20070222
EP1991141 A4	20130918	EP20070710640	20070222
JP2009527291 T2	20090730	JP20080555590T	20070222
US2009054875 AA	20090226	US20070280379	20070222
US2014107681 AA	20140417	US20130135656	20131220
US8617192 BB	20131231	US20070280379	20070222
US9345509 BB	20160524	US20130135656	20131220
WO07095751 A1	20070830	WO2007CA00285	20070222

Probable Assignee: BAYLIS MEDICAL CO INC

Assignee(s):(std)**:** BAYLIS MEDICAL CO INC ; STRAUSS BRADLEY H ; WARAM THOMAS C

Inventor(s):(std)**:** DAVIES GARETH ; LUK MARIA ; STRAUSS BRADLEY H ; WARAM THOMAS C

Agent(s): LORD MICHAEL; SUITA REIKO; CHIBA AKIO; ONO SHINJIRO; SHAMOTO ICHIO; KOBAYASHI YASUSHI; TOMITA HIROYUKI; ALSTON AND BIRD LLP; GLENN; NIR

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 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 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 ZA ZM ZW

International class (IPC 8–9): A61B17/22 A61B17/32 A61B17/3205 A61B17/3207 A61F2/84 A61L29/02 A61L29/08 A61L29/18 A61L31/00 A61M25/01 A61M25/02 A61M25/09 A61M25/10 A61M29/00 (Advanced/Invention);
A61B17/32 A61M25/00 A61M25/01 (Advanced/Non–invention);
A61B17/32 A61F2/82 A61L29/00 A61L31/00 A61M25/01 A61M25/02 A61M25/09 A61M25/10 (Core/Invention)

CPC: A61B17/320708 A61B17/32053 A61B2017/00845 A61B2017/22001 A61B2017/22038 A61B2017/320741 A61M25/0662 A61M2025/09183 A61B17/320725 A61B17/3207 A61B2017/320044 A61B2017/320056 A61M25/0021 A61M25/0045 A61M25/0051 A61M29/00 A61M2025/0047 A61M2025/0183

European class: A61B17/3207C A61M25/06H K61B17/00S4P K61B17/22A K61B17/22G K61B17/3205G K61B17/3207N K61M25/09T1

US class: 1/1 600/585 600/585S 604/528 604/528P 606/159

Classification Explorer

Cited documents: WO9956801 A2, WO08006111 A2, WO05004965 A2, WO0219928 A2, USW09956801, US8617192 BB, US8574192 BB, US8011079 BB, US7909779 BB, US7704245 BB, US7578042 BB, US7540865 BB, US7001369 BB, US6824560 BB, US6663617 BA, US6514217 BA, US6482215 BA, US6143009 A, US6083232 A, US6036708 A, US5879808 A, US5665098 A, US5573520 A, US5496344 A, US5327885 A, US5306244 A, US5205830 A, US5127917 A, US5127902 A, US5078723 A, US5075014 A, US5047040 A, US5041089 A, US5041082 A, US4898575 A, US4898574 A, US4886490 A, US4883458 A, US4862891 A, US4776844 A, US4732154 A, US4653496 A, US4597389 A, US4574781 A, US4559927 A, US4315511 A, US4290427 A, US3749085 A, US3683891 A, US3094124 A, US2944552 A, US2014107681 AA, US2012209176 AA, US2012101480 AA, US2012083794 AA, US2011245775 AA, US2010031491 AA, US2010030251 AA, US2009247987 AA, US2009227983 AA, US2009138031 AA, US2009054875 AA, US2009054872 AA, US2009030426 AA, US2009030400 AA, US2008214992 AA, US2008154293 AA, US2007287957 AA, US2007244440 AA, US2007005084 AA, US2006217664 AA, US2006178653 AA, US2006116661 AA, US2006074442 AA, US2005288628 AA, US2005273074 AA, US2005228364 AA,

US2005222585 AA, US2005209688 AA, US2005027309 AA, US2004220549 AA, US2003216761 AA, US2002156459 AA, US2002133128 AA, US2002099397 AA, US2002087076 AA, JP2006174959 A2, JP2005296078 A2, JP2005270658 A2, JP2004508096 T2, CA2511028 AA, CA1299953 A1,

Forward Citations: WO16053993, WO14143746, US9572594, US9402649, US9345509, US9125761, US8932315, US2014343584, US2014107681, US2010217372, US2008183272, JP2013085781,

Abstract:
Source: US2009054875A Flexible sleeve having a leading (distal) edge that can be advanced over a conventional angioplasty guide−wire to facilitate balloon angioplasty catheter and stent catheter crossing complex coronary lesions such as chronic total occlusions or heavily calcified, non−compliant lesions.

9) Family number: 41802075 (US2008135053A) © PatBase

Title: METHODS, SYSTEMS AND DEVICES FOR PERFORMING GYNECOLOGICAL PROCEDURES

Priority:

CN201080018769	20100429	EP20080745182	20080404	US20070910618P	20070406
US20070910625P	20070406	US20060857440P	20061107	EP20100770377	20100429
US20070923357	20071024	US20070923482	20071024	US20080098224	20080404
US20070986912P	20071109	US20080098250	20080404	US20080098318	20080404
US20070951853	20071206	US20070936003	20071106	WO2007US83982	20071107
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WO2008US59493	20080404	US20100917351	20101101	US20100972233	20101217
US20110216046	20110823	US20130013775	20130829	US20150680276	20150407
US20150981317	20151228	US20150983024	20151229	US20160365502	20161130
WO2008US59504	20080404	WO2008US59503	20080404	WO2010US33050	20100429

Family:

Publication number	Publication date	Application number	Application date
AU2010242907 AA	20101104	AU20100242907	20100429
AU2010242907 BB	20150521	AU20100242907	20100429
CA2760328 AA	20111027	CA20102760328	20100429
CA2760328 C	20170117	CA20102760328	20100429
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EP2424449 B1	20161116	EP20100770377	20100429
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WO10127171 A1	20101104	WO2010US33047	20100429	
WO10127174 A1	20101104	WO2010US33050	20100429	

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Inventor(s):(std)**:** ADAMS RONALD D ; ADAMS RONALD DAVID ; BURCHFIELD BRENT L ; BURCHFIELD BRENT LEE ; CHUN CHI CHIN ALBERT ; CHURCHILL WILLIAM LUCAS ; CICENAS CHRIS W ; CICENAS CHRIS WILLIAM ; CLCENAS CHRIS W ; CRISP RYAN S ; CRISP RYAN SCOTT ; CHIN ALBERT CHUN CHI ; DANIELS CHRIS SCOTT ; DAVID ADAMS RONALD ; DAVID JACOBS ; DICESARE PAUL ; FLAHERTY J CHIRSTOPHER ; FLAHERTY J CHRISTOPHER ; FOSHEE DAVID L ; GRUBER WILLIAM H ; GRUBER

WILLIAM HARWICK ; HARWICK GRUBER WILLIAM ; HEWITT SULLIVAN ROY ; JACOBS DAVID ; KARL LITSCHER ERIC ; KNODEL BRYAN DALE ; DREW DOUGLAS R ; ERSON MARK THOMAS ; KOLADA PAUL P ; LITSCHER ERIK KARL ; LORENZ MICHAEL A ; LORENZ MICHAEL ANTHONY ; LUCAS CHURCHILL WILLIAM ; MACARI DANNY ; MORA LUDWIN M ; MOSLER THEODORE J ; PATTERSON FRANK V ; RADZIUNAS JEFFREY ; LITSCHER ERIC KARL ; SULLIVAN ROY HEWETT ; SULLIVAN ROY HEWITT ; TELLERS CHRISTOPHER PATRICK ; VIGLIOTTI DANIEL ; VITITOE KEVIN J

Inventor(s): VITITOE KEVIN J COLUMBUS ; VIGLIOTTI DANIEL HAMDEN ; SULLIVAN ROY HEWETT UXBRIDGE ; LITSCHER ERIC KARL HOPKINTON ; RADZIUNAS JEFFREY WALLINGFORD ; MORA LUDWIN M WORTHIGNTON ; LORENZ MICHAEL ANTHONY GAHANNA ; KOLADA PAUL P BEXLEY ; FLAHERTY J ; KNODEL BRYAN DALE FLAGSTAFF ; GRUBER WILLIAM HARWICK SOUTHBOROUGH ; DICESARE PAUL EASTON ; DANIELS CHRIS SCOTT COLUMBUS ; CHIN ALBERT CHUN CHI NEWTON ; CRISP RYAN SCOTT LEWIS CENTER ; CICENAS CHRIS WILLIAM PATASKALA ; BURCHFIELD BRENT LEE POWELL ; ADAMS RONALD DAVID HOLLISTON

Agent(s): WALLINGTON DUMMER; SIM AND MCBURNEY; RICHES MCKENZIE AND HERBERT LLP; GRAPE AND SCHWARZENSTEINER; MARTIN DAVID JOHN; AHMAD SHEIKH SHAKEEL; RICKARD DAVID JOHN; LECOMTE AND PARTNERS; ALVAREZ SONIA; KNOBBE MARTENS OLSON AND BEAR LLP; VISTA IP LAW GROUP LLP; DELANEY KAROLINE A; ALTMAN DANIEL E

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 TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): A61B1/00 A61B1/012 A61B1/018 A61B1/06 A61B1/303 A61B10/02 A61B17/00 A61B17/02 A61B17/12 A61B17/22 A61B17/29 A61B17/30 A61B17/32 A61B17/3201 A61B17/3205 A61B17/3207 A61B17/34 A61B17/42 A61B18/14 A61B19/00 A61B5/00 A61B8/12 A61B90/30 A61F6/00 A61F6/06 A61F6/20 A61F6/22 A61M1/00 A61M25/00 A61M25/09 A61M25/10 A61M29/00 A61M29/02 A61M31/00 A61M37/00 A61N5/06 A61N7/02 (Advanced/Invention);
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A61B1/012 A61B17/32 A61B17/34 A61B17/42 A61B19/00 A61B5/00 A61F6/00 A61M1/00 A61M29/00 A61M29/02 (Core/Invention)

CPC: A61B2017/12054 A61F6/225 A61B17/12022 A61B17/12131 A61B17/12159 A61B17/12172 A61B2017/00986 A61F6/208 A61B17/320758 A61B17/3421 A61B17/3498 A61B2017/3447 A61B17/22 A61N7/022 A61M31/002 A61B5/6875 A61M25/09 A61N5/0603 A61N5/062 A61M29/02 A61B17/12099 A61B17/12136 A61B2017/00973 A63M1/0082 A61B8/12 A61B17/3496 A61B2010/0208 A61B2017/00331 A61B2017/00738 A61B2017/00526 A61B17/00234 A61B2017/0073 A61B1/0615 A61B1/0661 A61B17/12013 A61B17/12045 A61B2017/00084 A61B2017/00278 A61B2017/00557 A61B2017/00862 A61B2017/00876 A61B2017/00893 A61B2017/12018 A61B2017/12127 A61B2017/22038 A61B2017/306 A61F6/20 A61M25/0026 A61M25/1002 A61M25/1011 A61M37/0092 A61M2025/1047 A61M2025/105 A61B17/320068 A61B2090/3614 A61B2090/306 A61B1/00135 A61B17/0218 A61B2017/00867 A61B2017/22069 A61M25/0023 A61M25/0097 A61B17/3205 A61B2017/22079 A61B17/02 A61B2017/22078 A61B17/4241 A61B17/30 A61B17/320016 A61B17/29 A61B2017/3445 A61B17/3201 A61B17/32053 A61B17/32056 A61B17/320725 A61B17/320783 A61B17/3462 A61B2017/00685 A61B2017/2905 A61B2017/320004 A61B2017/320064 A61B2017/320775 A61B2017/3466 A61B2017/4216 A61B2018/1407 A61B2217/007 A61M1/0082 A61B1/303 A61B2090/064 A61B2017/320028 A61B2217/005 A61B17/3415 A61B2017/00424 A61B2017/00398 A61B2017/320024 A61B2017/0046 A61B2017/347 A61B17/42 A61B17/32002 A61B90/30

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K61B19/52D4 K61B217/00Q16 K61B217/00Q18 K61B8/12 K61M1/00T1 K61M25/00R1M K61M25/10Z2 K61M25/10Z3

US class: 1/1 128/831 128/832 128/898 128/898S 600/104 600/104P 600/114 600/154 600/154P 600/156 600/156S 600/158 600/158S 600/37 604/106 604/164.01 604/164.010P 604/22 604/27 604/28 604/28S 604/514 604/515 604/517 606/115 606/119 606/119P 606/119S 606/170 606/170P 606/171 606/171P 606/180 606/193 606/193S 606/198 606/198S

Classification Explorer

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AU2011319797, AU2010337128,

Abstract:
Source: US2008135053A Methods, systems and devices for performing gynecological procedures. According to one embodiment, there is provided a device for occluding a fallopian tube, the device including an outer member and an inner member. The outer member may be a hollow, frusto−conical structure shaped to include an open proximal end, an open distal end, and a side wall. The outer member may be self−expandable such that the distal end is biased radially outwardly. In addition, the side wall may have a porous structure to permit the ingrowth of tissue therethrough. Tines may be provided on the outer surface of the side wall to promote the anchoring of the outer member in a fallopian tube. The inner member, which may be structured to induce scarring, may comprise an elongated fibrous body fixed at its proximal end to the proximal end of the outer member. A bore may extend distally from the proximal end of the inner member to receive a delivery rod. The inner member, which may have pores or interstices to permit the ingrowth of tissue thereinto, is coated or impregnated with a sclerosing agent.

10) Family number: 30996446 (US2002099332A) © PatBase

Title: BIODEGRADABLE POLYMERIC ENDOLUMINAL SEALING PROCESS, APPARATUS AND POLYMERIC PRODUCTS FOR USE THEREIN

Priority:

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Designated states: AT AU BE CA CH DE DK ES FR GB GR IE IT JP LI LT LU MC NL PT SE SI US

International class (IPC 8–9): A61F2/00 A61F2/02 A61F2/04 A61F2/06 A61F2/82 A61F2/84 A61F2/88 A61F2/958 A61K38/04 A61K38/17 A61K47/30 A61L24/00 A61L24/04 A61L24/06 A61L26/00 A61L27/00 A61L27/16 A61L27/18 A61L27/34 A61L27/52 A61L27/54 A61L27/58 A61L29/00 A61L29/08 A61L31/00 A61L31/06 A61L31/10 A61L31/14 A61L31/16 A61M25/00 A61M25/10 A61M29/00 A61M29/02 A61M31/00 A61M35/00 A61M37/00 A61P9/14 B82B1/00 F16B37/04 F16B37/12 F16B39/06 (Advanced/Invention);
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A61F2/00 A61F2/02 (Core/Non–invention)

International class (IPC 1–7): A61B17/00 A61E2/06 A61F11/00 A61F2/02 A61F2/04 A61F2/06 A61F2/36 A61F2/54 A61K9/22 A61L25/00 A61L27/00 A61L29/00 A61L31/00 A61M25/00 A61M25/10 A61M29/00 A61M31/00 F16B21/16 F16B37/04 F16B37/12 F16B39/06

CPC: A61L2300/62 A61M29/02 A61M2025/0004 A61L2300/256 A61L2300/258 A61L2300/414 Y10S411/939 Y10S411/944 Y10S623/92 Y10S623/921 Y10S623/916 Y10S977/773 Y10S977/788 Y10S977/795 Y10S623/903 A61F2/04 A61M29/00 A61F2/82 A61L24/0031 A61L27/18 A61L29/085 A61L2300/412 A61L2300/64 A61M25/1002 A61M37/00 A61M25/104 A61L27/52 A61L31/145 A61L31/16 A61L2300/40 A61L2300/602 A61L2300/606 A61M2025/1052 A61M2025/1095 A61F2/958 A61F2/062 A61F2/88 A61F2/945 A61F2/95 A61F2002/30062 A61F2002/30583 A61F2002/30677 A61F2210/0004 A61F2210/0085 A61F2250/0067 A61L24/0015 A61L24/0042 A61L24/046 A61L24/06 A61L27/16 A61L27/34 A61L27/54 A61L27/58 A61L31/10 A61L2300/41 A61L2300/416 A61L2300/42 A61L2300/604 A61M25/0043 A61M25/1011 A61M35/00 F16B39/06 F16B37/122 Y10T29/49906

European class: A61F2/06B A61F2/06S A61F2/06S2 A61F2/06S2B A61F2/06S6C A61F2/82 A61F2/88 A61F2/95 A61F2/958 A61L24/00H2 A61L24/00H7 A61L24/00H9 A61L24/04R A61L24/06 A61L27/16 A61L27/18 A61L27/34 A61L27/52 A61L27/54 A61L27/58 A61L29/08B A61L31/10 A61L31/14F A61L31/16 A61M25/00S A61M25/10D A61M25/10P A61M29/02 A61M35/00 A61M37/00 F16B39/06 K61F2/06S6C K61F2/30A1W1 K61F2/30A3W18C K61F2/30A5D K61F2/88 K61F2/945 K61F210/00A K61F210/00P K61F250/00W5 K61L300/256 K61L300/258 K61L300/40 K61L300/410 K61L300/412 K61L300/414 K61L300/416 K61L300/420 K61L300/602 K61L300/604 K61L300/606 K61L300/620 K61L300/640 K61M25/00C K61M25/10A K61M25/10D K61M25/10Z23 K61M25/10Z4 R16B37/12B

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Abstract:
Source: US2002099332A A novel process for paving or sealing the interior surface of a tissue lumen by entering the interior of the tissue lumen and applying a polymer to the interior surface of the tissue lumen. This is accomplished using a catheter which delivers the polymer to the tissue lumen and causes it to conform to the interior surface of the lumen. The polymer can be delivered to the lumen as a monomer or prepolymer solution, or as an at least partially preformed layer on an expansile member.

0) US2001029389A – BONE MARROW SHIELDING APPARATUS AND METHOD OF B...

11) Family number: 28098573 (US2001029389A) © PatBase

Title: Bone marrow shielding apparatus and method of bone marrow–shielded cancer chemotherapy

Priority: US19980073004P 19980129 US19980074002P 19980209 US19980075128P 19980214 US20010820523 20010328 US19990239511 19990128 US19980080817P 19980406 WO1999US01940 19990128

Family:

Publication number	Publication date	Application number	Application date
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EP1051117 A1	20001115	EP19990904428	19990128
US2001029389 AA	20011011	US20010820523	20010328
US6210423 BA	20010403	US19990239511	19990128
WO9938442 A1	19990805	WO1999US01940	19990128

Probable Assignee: KIM SINIL

Assignee(s):(std)**:** KIM SINIL ; SINIL KIM

Inventor(s):(std)**:** KIM SINIL

Inventor(s): SINIL KIM

Agent(s): GOWLING LAFLEUR HENDERSON LLP

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW

International class (IPC 8–9): A61B17/132 A61B17/135 A61F5/34 (Advanced/Invention)

International class (IPC 1–7): A61B17/00 A61B17/132 A61B17/135 A61F5/34 A61M29/00

CPC: A61B17/1325 A61B17/135 A61F5/34

European class: A61B17/132G2 A61B17/135 A61F5/34

US class: 128/898 606/203 606/203P

Classification Explorer

Cited documents: WO9011744 A1, USB14469099, US5584853 A, US5514155 A, US5496358 A, US5486194 A, US5454831 A, US5411518 A, US5288286 A, US5263473 A, US5234459 A, US4957105 A, US4829994 A, US4635635 A, US4469099 A, US4372297 A, US4329997 A, US4240415 A, US4228792 A, US4210147 A, US3454010 A, US3032033 A, US2811970 A, DE8610887 U, DE821824 A,

Forward Citations: WO05035026, USD709197, USD709048, USD708338, US9610213, US9393025, US9205019, US9119761, US9119759, US8821496, US8790266, US8764789, US8753283, US8480842, US7717855, US2014296757, US2012232578, US2012130419, US2011190807, US2010305607, US2010292619, US2010268267, US2010160799, US2009099518, US2008243232, US2008139949, US2008082175, EP1996086, EP1996086,

Abstract:
Source: US2001029389A The invention provides a variety of bone marrow–shielding tourniquets and methods for using them to perform bone marrow–shielded chemotherapy with or without general and without the need to remove a patient's bone marrow for protection during the procedure. In the invention method, pressure is applied to at least one body part of the patient that contains myelopoietic bone marrow to temporarily occlude arterial flow to the bone marrow while blood circulation through the remainder of the body is maintained. Then an effective amount of at least one myelosuppresive chemotherapeutic agent is administered to the blood circulation in the remainder of the patient while the arterial flow through the at least one body part is occluded and so that the myelosuppresive effect of the agent is substantially dissipated within the maximum safe period for the occlusion of

the arterial flow, or about three hours. The pressure is removed to restore blood circulation to the bone marrow when the effect has substantially dissipated and within the maximum safe period. By the invention method, a tumor located in the remainder of the body is treated by the at least one chemotherapeutic agent without destruction of a substantial portion of the bone marrow in the occluded body part. The bone marrow shielding tourniquets for use in the invention chemotherapeutic method are designed to substantially cover at least the shoulder or hip area of a human so as to occlude arterial flow therein and include inflatable bladders that apply the requisite pressure when the tourniquet is applied to the wearer. The shoulder tourniquet optionally is designed to occlude arterial flow into the proximal scapula as well as into the shoulder area. Bilateral tourniquets are also provided for simultaneous occlusion of bilateral shoulders and, optionally, bilateral scapulae.

0) US2013312761A – ACUTE AND PERMANENT OCCLUSION DEVICE, DELIVERY ...

12) Family number: 55198998 (US2013312761A) © PatBase

Title: ACUTE AND PERMANENT OCCLUSION DEVICE, DELIVERY CATHETER AND METHOD

Priority: US20120478880 20120523 US20120566080 20120803

Family:

Publication number	Publication date	Application number	Application date
US2013312761 AA	20131128	US20120478880	20120523
US2013312762 AA	20131128	US20120566080	20120803
US9592148 BB	20170314	US20120478880	20120523
US9597223 BB	20170321	US20120566080	20120803

Probable Assignee: WIJAY BANDULA

Assignee(s):(std)**:** WIJAY BANDULA ; WIJAY NANDHIKA

Inventor(s):(std)**:** WIJAY BANDULA ; WIJAY NANDHIKA

Agent(s): STEVE

International class (IPC 8–9)**:** A61F6/22 (Advanced/Invention)

CPC: A61F6/225

US class: 128/831

Classification Explorer

Cited documents: US8747430 BB, US8443808 BB, US8100129 BB, US7846160 BB, US7819880 BB, US7749279 BB, US7736326 BB, US6629533 BA, US6588429 BA, US6357443 BA, US6251141 BA, US5935169 A, US5935137 A, US5893850 A, US5861043 A, US5746769 A, US5656036 A, US5601600 A, US5334137 A, US5287852 A, US4874139 A, US4733665 A, US4677967 A, US4246896 A, US4043338 A, US3675642 A, US2014163608 AA, US2011284009 AA, US2011174312 AA, US2010234878 AA, US2010163054 AA, US2009054723 AA, US2008135054 AA, US2003066533 AA,

Abstract:
Source: US2013312761A An endoluminal occluding device consisting of a conical–shaped structure which is attached to a threaded central tubular element is capable of occluding a body lumen immediately after placement. When deployed within a body lumen, such as a fallopian tube, the conical–shaped structure extends radially outward from the central tubular element, thereby acutely occluding the body lumen, and, in the case of the fallopian tubes, preventing conception. As the acute occlusion device is being implanted into a body lumen, it is rotated, as the screw threads, which embed into the body lumen wall, advance the device within the body lumen to the desired located. Once implanted and deployed into a body lumen, the acute occlusion device provides immediate occlusion of the body lumen. A proximal anchor prevents the endoluminal device from migrating into the body lumen once it has been deployed.

0) US3822702A – DISPENSING METHOD AND APPARATUS

13) Family number: 24051518 (US3822702A) © PatBase

Title: DISPENSING METHOD AND APPARATUS

Priority:

AU19740066439 19740308 IE19740000504 19740308 NL19740003145 19740308
JP19770155071 19771222 US19730361418 19730518 US19730339911 19730309
US19750543877 19750124 US19750543875 19750124 US19730394727 19730906
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US19740451530 19740315

Family:

Publication number	Publication date	Application number	Application date
AR203193 A1	19750822	AR19740252714	19740308
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Probable Assignee: PDEW INC A CORP OF NORTH CAROLINA

Assignee(s):(std)**:** MEDTRONIC INC ; POPULATION RES INC ; POPULATION RESEARCH INC TE MINNEAPOLIS MI ; POPULATION RESEARCH INC US ; POPULATION RESEARCH INC ; POPIYUREESHIYON RISAACHI INC ; POPULATION RESEARCH INC MINNEAPOLIS MINNE

Assignee(s): POPULATION RESEARCH INCORP ; PIROTTE JOHN K 14240 WYNDFIELD CIRCLE RALEIGH NC 2 ; WOODY W RUFFIN JR PO BOX 381 ROXBORO NC 27573 ; POPULATION RESEARCH INC MINNEAPOLIS MINNESOTA VER ST V AM ; POPULATION RESEARCH INC TE MINNEAPOLIS MINNESOTA VER ST V AM ; PIROTTE JOHN K 14240 WYNDFIELD CIRCLE RALEIGH NC 27609 ; WOODY W RUFFIN JR ; POPULATION RESEARCH INC MINNEAPOLIS MINN V ST A ; POPULATION RES INC US ; DUNCAN CLAYTON I 616 MILOWE ROAD RALEIGH NC 27609 ; EDWARDS LUCILLE L ROUTE 10 BOX 245 CHAPEL HILL NC ; PDEW INC A CORP OF NORTH CAROLINA ; EDWARDS LUCILLE L ROUTE 10 BOX 245 CHAPEL HILL NC 27514 ; BIONEUS INC ; BOLDUC LEE R ; CRX MEDICAL INC ; CRX MEDICAL INC NORTH A CORP OF NC ; DICKHUDT EUGENE A ; PDEW INC ; PIROTTE JOHN K ; EDWARDS LUCILLE L ; DUNCAN CLAYTON I ; FAMILY HEALTH INT

Inventor(s):(std)**:** BOLDUC L R ; BOLDUC LEE R ; DECKHUDT E ; DICJHUDT E ; DICKHUDT E A ; BOLDUC LEE ROBIN ; DICKHUDT EUGENE A ; DICKHUDT EUGENE ARTHUR ; DICKRUDT EUGENE A ; E A DICKHUDT ; EUGENE AD ; EUGENE ARTHUR DICKHUDT ; L R BOLDUC ; LEE RB ; LEE ROBIN BOLDUC ; RII ROBIN BORUDATSUKU ; YUUJIEN AASAA DEITSUKUHATSUTO ; LEE R B ; EUGENE A D ; DICKHUDT E ; BOLDUC L

Inventor(s): LEE ROBIN BOLDUC AND EUGENE ARTHUR DICKHUDT ; DICKRUDT EUGENE A US ; DICKHUDT EUGENE ARTHUR ST PAUL ; DICKHUDT EUGENE A US ; BOLDUC LEE

ROBIN MINNEAPOLIS ; DICKHUDT E US ; BOLDUC LEE R US ; BOLDUC L US

Agent(s): EITAN PEARL LATZER AND COHEN ZEDEK

International class (IPC 8–9): A61B17/42 A61F2/958 A61F6/22 A61K9/00 A61M1/00 A61M31/00 B67B7/48 (Advanced/Invention); A61F6/00 A61K9/00 A61M1/00 A61M25/10 A61M31/00 B67B7/00 (Core/Invention)

International class (IPC 1–7): A61B17/42 A61D7/00 A61F5/00 A61F5/46 A61K37/38 A61M1/00 A61M25/00 A61M29/00 A61M3/00 A61M31/00 A61M37/00 A61M37/02 B67B7/26

CPC: A61B17/42 A61K9/0039 A61M2210/1425 A61F6/225 A61F6/146 A61F6/16 A61F6/22 A61M25/10181 A61M31/00 A61M25/1018

European class: A61B17/42 A61F6/22 A61F6/22B A61K9/00M8D A61M25/10E A61M31/00 K61M210/14C

US class: 128/232 128/235 128/831 222/103 222/82 222/83 222/85 604/103.03 604/121 604/135 604/191 604/196 604/201 604/515 604/82 604/920 604/96.01 604/97.02

Classification Explorer

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Forward Citations: WO9943366, WO8911310, WO11064408, WO07137056, WO07137056, WO07087536, WO05082299, WO05006991, WO05006991, WO02051491, WO0018464, US9655557, US9592375, US9579095, US9554826, US9440048, US9402762, US9308023, US9283108, US9238127, US9220880, US9155872, US9113852, US9055949, US9034053, US8986244, US8956285, US8808232, US8726906, US8695606, US8672881, US8540745, US8539672, US8506543, US8490852, US8454645, US8439497, US8398324, US8336552, US8328839, US8324193, US8316854, US8316853, US8282665, US8267609, US8262643, US8262605, US8262570, US8217219, US8187296, US8172869, US8167874, US8162899, US8157831, US8079683, US8052669, US8048101, US8048087, US8048086, US7985179, US7972322, US7967835, US7963975, US7934503, US7914541, US7799010, US7776063, US7763006, US7708391, US7695487, US7682346, US7597497, US7549424, US7300448, US7297153, US7232208, US7214236, US7179272, US7001405, US6953469, US6953467, US6916307, US6902541, US6866676, US6758853, US6758831, US6755845, US6699272, US6695856, US6679900, US6676680, US6632234, US6592602, US6562056, US6540764, US6514272, US6475182, US6443941, US6432121, US6432081, US6408203, US6368337, US6364892, US6355015, US6290672, US6287275, US6264631, US6264604, US6231591, US6197351, US6193763, US6187346, US6168608, US6165492, US6059766, US6048330, US6015421, US5993378, US5947977, US5891457, US5858003, US5836961, US5836951, US5817123, US5807306, US5752971, US5702416, US5628730, US5607443, US5578048, US5571115, US5540711, US5527336, US5498238, US5496345, US5496272, US5492532, US5458568, US5439476, US5431662, US5411485, US5348392, US5312430, US5300046, US5286254, US5282785, US5196017, US5108366, US5030227, US5007919, US4979942, US4865587, US4795431, US4637818, US4601698, US4469100, US4416660, US4349033, US4207891, US4185618, US4182328, US4160446, US4136695, US4119098, US4086266, US4054138, US4030499, US3982537, US2016030084, US2014180247, US2014135735, US2014024934, US2013158428, US2013019374, US2011218565, US2011183296, US2010266981, US2010214381, US2010170931, US2010086492, US2009299148, US2009012496, US2009012495, US2009012426, US2008275392, US2008221515, US2008215031, US2008132936, US2008058853, US2008045994, US2007288052, US2007282280, US2007020028, US2006173483, US2006169278, US2006129125, US2006079922, US2006079918, US2006036277, US2006015070, US2005255039, US2005240211, US2005187561, US2005156997, US2005119662, US2005004592, US2005004540, US2004236363, US2004230218, US2004186353, US2004167557, US2004138702, US2004024419, US2004015182, US2004002647, US2003236546, US2003229373, US2003187472, US2003073908, US2002032407, TWI552779, JP7086017, JP62054313, JP62034816, JP60080204, JP60080203, JP56500101, JP56118412, JP53021893, JP2009537250, GB2150032, FR2873014, FR2419064, FR2361125, FR2361125, EP2327382, EP2327381, EP0767688, EP0417189, EP0153407, EP0088714, EP0054357, EP0010650, EP0002060, DK152407, DE2735444, CN103750884, AU631686,

Abstract:
Source: US3822702A A fluid dispensing instrument and method for introducing a fluid, as drug materials, into the canals of the Fallopian tubes of a primate female. The dispensing instrument has a tubular probe carrying an

expandable balloon assembly. A stop collar on the probe positions the balloon assembly in the uterine cavity. The balloon assembly has a sleeve member which is initially expanded to close the lower portion of the uterine cavity. The drug material is introduced through the probe into the upper portion of the uterine cavity above the expanded balloon assembly. The balloon assembly is then further expanded to force the drug material from the upper portion of the uterine cavity into the canals of the Fallopian tubes. The expanding balloon assembly divides the material and forces the drug material into both of the canals.

14) Family number: 63985891 (WO16180426A1) © PatBase

Title: OCCLUSION DEVICE FOR REVERSIBLE OCCLUSION OF A BIOLOGICAL TUBE

Priority: EP20150167312 20150512

Family:

Publication number	Publication date	Application number	Application date
EP3092981 A1	20161116	EP20150167312	20150512
WO16180426 A1	20161117	WO2016DK50129	20160512

Probable Assignee: VASDEBLOCK MEDICAL APS

Assignee(s):(std)**:** VASDEBLOCK MEDICAL APS

Inventor(s):(std)**:** LINDEBURG NIELS

Agent(s): AWAPATENT A S; RORDAM TROELS PETER 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

International class (IPC 8–9): A61F6/20 (Advanced/Invention)

CPC: A61F6/20

Classification Explorer

Cited documents: US4052754 A, US3648683 A, US2010192959 AA, US2003066533 AA, EP2404580 A1,

Abstract:
The present invention relates to an occlusion device (10) for blocking a biological tube, the biological tube being prone to a peristaltic wave having a wave length, and where the occlusion device comprises at least two sections (11, 12, 13), where each section (11, 12, 13) is connected by at least one narrowing (18, 19) to at least one other section. Especially the invention relates to reversible contraception of female and/or male gendered species, which is often achieved by methods of surgery, intervening with the biological tube, which are responsible for transportation of fertility fluids, such as the transportation of spermatozoes or oocytes in for example the human reproductive system.

15) Family number: 32890672 (US2001046518A) © PatBase

Title: METHODS OF USING IN SITU HYDRATION OF HYDROGEL ARTICLES FOR SEALING OR AUGMENTATION OF TISSUE OR VESSELS

Priority:

EP20050824218	20051101	JP20070540404	20051101	JP20120237135	20051101
US20010776120	20010202	US20030616055	20030709	US19980134199	19980814
JP20150018455	20150202	JP20150018455	20051101	JP20150148223	20150728
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Family:

Publication number	Publication date	Application number	Application date
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WO06052611 A1	20060518	WO2005US39692	20051101	

Probable Assignee: ACCESS CLOSURE INC

Assignee(s):(std)**:** BAGAOISAN CELSO J ; BENNETT STEVEN L ; SAWHNEY AMARPREET S ; EDELMAN PETER G ; INCEPT LLC ; KHOSRAVI FARHAD ; PAI SURESH S ; ACCESS CLOSURE INC ; ACCESSCLOSURE INC

Assignee(s): SILICON VALLEY BANK ; ACCESSCLOSURE INC645 CLYDE AVENUEMOUNTAIN VIEWCA94043US ; AJN LENDING LLC ; PINNACLE VENTURES L L C

Inventor(s):(std)**:** AMAR SAWHNEY ; BAGAOISAN CELSO J ; FAI SURESH S ; KHOSRAVI FARHAD ; BENNETT STEVEN L ; PAI SURESH S ; SURESH S PAI ; SAWHNEY AMARPREET S ; EDELMAN PETER G

Inventor(s): PAI SURESH SUS ; SAWHNEY AMARPREET ; FAI SURESH ; KHOSRAVI FARHADUS ; PAI SURESH ; BAGAOISAN CELSO JUS ; BAGAOISAN CELSO

Agent(s): SMART AND BIGGAR; GOWLING LAFLEUR HENDERSON LLP; DENNEMEYER AND ASSOCIATES SA; MIYOSHI HIDEKAZU; BINGHAM MCCUTCHEN LLP; PATTERSON THUENTE SKAAR AND CHRISTENSEN PA 4800 IDS CENTER; VISTA IP LAW GROUP LLP; DARDI AND ASSOCIATES PLLC; DARDI AND HERBERT PLLC US BANK PLAZA SUITE 2000; ENGLISH WILLIAM A; WILLIAM A; DARDI AND HERBERT PLLC; CURTIS B; NADA J; DARDI AND HERBERT PHD

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

International class(IPC 8–9)**:** A61B17/00 A61B17/03 A61B17/08 A61B17/12 A61D1/00 A61F13/02 A61F2/00 A61F2/02 A61F2/04 A61F2/06 A61F2/82 A61F6/20 A61K38/16 A61K47/30 A61K47/34 A61K49/00 A61K9/00 A61K9/14 A61K9/20 A61K9/70 A61L15/16 A61L24/00 A61L26/00 A61L27/52 A61L27/58 A61L31/00 A61L31/04 A61L31/06 A61L31/14 A61L33/00 A61M23/00 A61M29/02 A61M31/00 (Advanced/Invention);
A61F13/00 A61F2/00 A61F2/82 A61K47/30 A61L31/04 (Advanced/Non–invention);
A61B17/00 A61B17/03 A61B17/12 A61D1/00 A61F2/00 A61F2/02 A61F2/04 A61K47/34 A61K9/00 A61K9/14 A61K9/70 A61L24/00 A61L27/00 A61L31/00 A61L31/14 A61M31/00 (Core/Invention)

International class(IPC 1–7)**:** A61F13/00 A61F13/02 A61F2/00 A61K31/715 A61K31/765 A61K31/77 A61K31/785 A61K31/795 A61K31/80 A61K9/00 A61K9/14 A61K9/70 A61L15/16 A61L17/10 A61L31/04 A61M23/00 A61M29/04

CPC: A61K9/0075 A61K9/7023 A61K47/34 A61K6/0014 A61K6/0067 A61B17/12099 A61B17/12104 A61B17/12109 A61B17/12186 A61B2017/00898 A61K9/0036 A61K9/0085 A61K9/2027 A61L24/0015 A61L24/0031 A61L31/16 A61L2300/418 A61B17/12022 A61L33/0064 A61B17/1219 A61B2017/00495 A61L31/145 A61L31/148 C08L71/02 A61B2017/00004 A61K9/0024 A61B17/0057 A61B17/00491 A61B2017/00637 A61B2017/0065 A61B2017/00654 A61L31/044 A61L31/046 A61L31/042 A61L31/06 A61L31/048 A61L2300/252 A61L2300/232 A61L2400/04 A61L27/58 A61L26/008 A61L26/0052 A61L2420/06 A61L2300/606

European class: A61B17/00L A61B17/00P A61B17/12P A61B17/12P5 A61B17/12P5A A61B17/12P5B A61B17/12P7Z1 A61B17/12P7Z3 A61K47/34 A61K6/00D A61K9/00 A61K9/00M20B A61K9/00M20B3 A61K9/00M22 A61K9/00M5D A61K9/00M8B A61K9/20H6B A61K9/70E A61L24/00H2 A61L24/00H7 A61L31/14F A61L31/14K A61L31/16 K61B17/00A K61B17/00L2 K61B17/00P11A K61B17/00P11G K61B17/00P7 K61B17/00S22 K61L300/418

US class: 1/1 128/831 128/887 128/898 424/400 424/422 424/423 424/423P 424/423S 424/426 424/426S 424/430 424/433 424/443 424/443P 424/444 424/484 424/484P 424/486 424/486P 424/489 424/490 424/491 424/493 424/497 424/78.3 424/78.300S 424/9.1 424/9.100P 424/9.4 514/1.1 514/1.100S 514/12 514/54 514/54S 514/772.3 604/110 604/210 604/218 604/220 604/57 604/57P 604/913 606/154 606/192 606/193 606/213 606/213P 606/214 606/214P 606/230 623/1.1 623/1.11 623/1.110S 623/1.38 623/1.54 623/138 623/154

Locarno class: 42/44

Classification Explorer

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Abstract:
Source: US2001046518A Pharmaceutically acceptable hydrogel polymers of natural, recombinant or synthetic origin, or hybrids thereof, are introduced in a dry, less hydrated, or substantially deswollen state and rehydrate in a physiological environment to undergo a volumetric expansion and to affect sealing, plugging, or augmentation of tissue, defects in tissue, or of organs. The hydrogel polymers may deliver therapeutic entities by controlled release at the site. Methods to form useful devices from such polymers, and to implant the devices are provided.

16) Family number: 33180075 (US2010106149A) © PatBase

Title: APPARATUS FOR ADMINISTERING THERAPY AT A REMOTE LOCATION IN THE BODY

Priority: GB20060010489 20060524 GB20070000553 20070111 GB20070007370 20070413 GB20070024347 20071213 WO2007GB01914 20070523 WO2008GB00084 20080111 US20090522721 20091209 US20120712207 20121212

Family:

Publication number	Publication date	Application number	Application date
CN101495048 A	20090729	CN200780028106	20070523
CN101495048 B	20120905	CN200780028106	20070523
EP2032045 A2	20090311	EP20070732935	20070523
EP2107890 A2	20091014	EP20080700171	20080111
GB200610489 A0	20060705	GB20060010489	20060524
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GB200707370 A0	20070523	GB20070007370	20070413
GB200724347 A0	20080130	GB20070024347	20071213
IN10442DN2008 A	20090320	IN2008DN10442	20081217
JP2009537271 T2	20091029	JP20090511577T	20070523
JP5096462 B2	20121212	JP20090511577T	20070523
RU2008151150 A	20100627	RU20080151150	20070523
US2010106149 AA	20100429	US20080522721	20080111
US2010268217 AA	20101021	US20070301895	20070523
US2013178840 AA	20130711	US20120712207	20121212
US8357153 BB	20130122	US20080522721	20080111
WO07135431 A2	20071129	WO2007GB01914	20070523
WO07135431 A3	20080110	WO2007GB01914	20070523
WO08084239 A2	20080717	WO2008GB00084	20080111
WO08084239 A3	20081113	WO2008GB00084	20080111

Probable Assignee: EMCISION LTD

Assignee(s):(std)**:** EMCISION LTD ; HABIB MEDICAL LTD ; HABIB NAGY

Assignee(s): EMCISION LIMITED ; HABIB MEDICAL LIMITED

Inventor(s):(std)**:** HABIB NAGY ; NAGY HABIB

Agent(s): CREASE DEVANAND JOHN ET AL; CREASE DEVANAND JOHN; CAESAR RIVISE BERNSTEIN COHEN AND POKOTILOW LTD

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 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 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 ZA ZM ZW

International class (IPC 8–9): A61B17/08 A61B17/12 A61B18/00 A61B18/04 A61B18/08 A61B18/12 A61B18/14 A61B18/18 A61B18/20 (Advanced/Invention); A61B17/03 A61B18/04 A61B18/14 A61B18/18 (Core/Invention)

International class (IPC 1–7): A61B17/08

CPC: A61B17/12013 A61B17/2202 A61B18/24 A61B2018/1475 A61B2018/2272 A61B18/082 A61B18/1492 A61B2017/00867 A61B2018/00214 A61B2018/00267 A61B2018/1435 A61B2018/1467 A61B2018/1495 C08L2201/12

European class: A61B17/22B2D A61B18/14V A61B18/24 K61B17/00S12 K61B17/12L2 K61B18/00B14 K61B18/00B14C K61B18/14C14 K61B18/14H K61B18/14M K61B18/14X K61B18/22T6

M08L201/12

US class: 606/28 606/28P 606/29 606/33 606/33P 606/41 607/101 607/116

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Forward Citations: WO15175662, WO14160118, WO14152038, WO14043687, WO14043687, WO13070724, WO11081687, US9668811, US9649156, US9592386, US9579030, US9510901, US9486355, US9463062, US9433760, US9420955, US9408661, US9402684, US9364284, US9358365, US9327100, US9326751, US9297845, US9277955, US9265969, US9220561, US9220558, US9192790, US9192435, US9186211, US9186210, US9186209, US9179974, US9174050, US9173696, US9162046, US9155589, US9125667, US9125666, US9119632, US9119600, US9089350, US9084609, US9079000, US9072902, US9060761, US9050106, US9037259, US9028485, US9028472, US9023034, US8989873, US8974451, US8951251, US8939970, US8920414, US8880185, US8551096, US8496653, US8401667, US8396548, US8364237, US2015265350, US2015105795, US2014358089, US2013023975, US2012191181, JP2014514071, JP2011529350, GB2525113, GB2525113, GB2525029, GB2525029, GB2484046, GB2484046, EP3173045, EP3034025, EP2939629, CN104780859, CN104519837, CN104023662, CN103976788, CN103561814, CN103517682, CN103517682, CN102871727, CN102871727, CN102665573, CN102665573,

Abstract:
Source: US2010106149A Devices suitable for insertion into a hollow anatomical structure within a patient for the purpose of ablating tissue within or surrounding the hollow structure so as to induce occlusion of the hollow structure are provided. The devices are in the form of guidewires with functional tips, that comprise at least one heating module, at their distal ends. The devices of the invention are suitable for occluding hollow anatomical structures selected from vasculature or from non−vascular ducts and tubes, via percutaneous, laparoscopic or endoscopic routes of access. Methods of using the devices in the treatment of patients are also described.

17) Family number: 23898187 (US2004097927A) © PatBase

Title: INTERVERTEBRAL DISC REPAIR

Priority:
EP20070762689 20070205 US20010268666P 20010213 US20010297556P 20010611
US20010310131P 20010803 US20010325111P 20010926 US20010330260P 20011017
US20040555895 20040507 US20030468770 20030507 US20030468770P 20030507
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WO2007US03194 20060205

Family:

Publication number	Publication date	Application number	Application date
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WO02064044 A3	20040108	WO2002US04301	20020213	
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ZA200508292 A	20061227	ZA20050008292	20040507	
ZA200806141 A	20091230	ZA20080006141	20070205	

Probable Assignee: ALEEVA MEDICAL INC

Assignee(s):(std)**:** ALEEVA MEDICAL INC ; ALEEVA MEDICAL INC A DELAWARE ; ALEEVE MEDICAL INC A DELAWARE ; YEUNG JEFFREY E ; YEUNG TERESA T ; YEUNG JEFFREY ERIC ; ALIVA MEDIKAL INK ; YEUNG JEFF

Assignee(s): ALLEVA MEDICAL INC ; ALEEVE MEDICAL INC A DELAWARE CORP ; ALEEVA MEDICAL INC A DELAWARE CORP ; ALEEVA MEDICAL INC SAN JOSE

Inventor(s):(std)**:** JEFFREY E YEUNG ; JENG DZHEFFRI E ; JENG TEREZA T ; TERESA T YEUNG ; YEUNG JEFF ; YEUNG JEFFREY E ; YEUNG T ; YEUNG JEFFREY ERIC ; YEUNG JEFFREY E YEUNG TERESA T ; YEUNG TERESA T

Inventor(s): YEUNG TERESA T SAN JOSE ; YEUNG JEFFREY E SAN JOSE ; YEUNG TERESA ; YEUNG JEFFREY

Agent(s): A J PARK; AJ PARK; MCFADDEN FINCHAM; OSLER HOSKIN AND HARCOURT LLP; STAINTHORPE VANESSA JULIET; LAZCANO JESUS; REINHOLD COHN AND PARTNERS; JEFFREY E YEUNG; GREGORY SMITH AND ASSOCIATES; JEFREY E YEUNG; CAROL; GSS LAW GROUP; CAROL TITUS GSS LAW GROUP

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 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 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

International class (IPC 8–9): A61B A61B17/00 A61B17/06 A61B17/16 A61B17/17 A61B17/20 A61B17/34 A61B17/56 A61B17/70 A61B17/88 A61D1/00 A61F2/44 A61F2/46 A61K35/12 A61K35/23 A61K35/24 A61K35/39 A61K35/40 A61K35/407 A61K35/48 A61K35/50 A61K35/54 A61K38/22 A61K38/27 A61K38/35 A61L27/28 A61L27/38 A61L31/00 A61M1/00 A61M25/00 A61M31/00 A61M37/00 A61M5/00 A61M5/158 A61M5/178 A61M5/31 A61M5/32 A61P19/00 A61P29/00 A61P5/00 B22D19/00 (Advanced/Invention);
A61B17/00 A61B17/34 A61B19/00 A61F2/44 A61M37/00 (Advanced/Non–invention);
A61B17/00 A61B17/06 A61B17/16 A61B17/20 A61B17/34 A61B17/56 A61B17/70 A61B17/88 A61F2/44 A61L27/00 A61L31/00 A61M1/00 A61M25/00 A61M31/00 A61M5/32 B22D19/00 (Core/Invention);
A61B17/00 A61B19/00 A61F2/44 (Core/Non–invention);
A61B A61D A61F A61L (Subclass/Invention)

International class (IPC 1–7): A61B17/06 A61B17/56 A61B17/58 A61B17/70 A61B17/88 A61B71/88 A61F2/44 A61L31/00 A61M31/00

CPC: A61B17/06066 A61B17/062 A61B2017/061 A61B2017/90 A61L27/28 A61B17/1757 A61B17/70 A61B2017/00004 A61B2017/00867 A61F2002/4435 A61B17/3478 A61B2017/00261 A61B2017/00575 A61B17/3472 A61B17/0057 A61B17/8811 A61B2017/00637 A61B2017/00654 A61L27/3658 A61B17/00 A61F2/94 A61F2002/444 A61L27/3604 A61L27/3804 A61L27/3856 A61L2430/38 A61B2090/033 A61B17/7061 A61B17/1604 A61B17/1615 A61B17/162 A61B17/1624 A61B17/1637 A61B17/1671

European class: A61B17/00 A61B17/062 A61B17/06N A61B17/16C A61B17/16D2 A61B17/16D4 A61B17/16D6B A61B17/16S4 A61B17/17S4 A61B17/34L A61B17/34Q A61B17/70L A61L27/00 A61L27/28 A61L27/36B A61L27/36F2D2 A61L27/38B A61L27/38D2D2 K61B17/00A K61B17/00E1D K61B17/00P K61B17/00P11G K61B17/00P5 K61B17/00P7 K61B17/00S12 K61B17/06N8 K61B17/16D2 K61B17/16S4 K61B17/88A2C K61B17/90 K61F2/44D4 K61F2/44D6 K61F2/94 K61L430/38

US class: 164/10 164/10P 604/158 604/159 604/164.01 604/164.010S 604/239 604/264 604/264P 604/27 604/27P 604/28 604/28P 604/46 604/46S 604/500 604/500P 604/506 604/8 604/8P 604/8S 604/93.01 604/93.010S 606/108 606/108P 606/246 606/246S 606/247 606/247S 606/277 606/277S 606/279 606/279S 606/325 606/325S 606/61 606/80 606/80P 606/86.00AP 606/86.00R 606/86A 606/86R 606/907 606/907S 606/910 606/910S 623/17.11 623/17.110P 623/17.16 623/17.160S

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Forward Citations: WO16163812, WO15105162, WO15059958, WO13009516, WO13009516, WO12170700, WO12170700, WO12128829, WO12065753, WO11082390, WO11082390, WO10127359, WO10033739, WO10033739, WO09042598, WO08103781, WO08103781, WO07089947, WO07089947, WO07059328, WO07059328, WO06119455, WO06116119, WO06045007, WO06044649, WO06044649, WO06014159, WO03088876, WO03088876, USD566277, USD556905, US9662157, US9662128, US9642712, US9636254, US9629687, US9622783, US9616221, US9616204, US9610195, US9610106, US9610073, US9598673, US9597395, US9592154, US9585790, US9585725, US9579129, US9566095, US9561063, US9545268, US9532796, US9517077, US9511096, US9511094, US9510885, US9504716, US9498595, US9492483, US9492201, US9492151, US9486484, US9486264, US9486227, US9480718, US9468473, US9463203, US9463041, US9463029, US9463012, US9456829, US9439642, US9427497, US9421005, US9402668, US9393153, US9393127, US9393126, US9375323, US9364587, US9364339, US9358029, US9351769, US9351741, US9351739, US9345491, US9339265, US9333087, US9326891, US9326866, US9320618, US9314349, US9314253, US9314252, US9289201, US9283116, US9277950, US9277929, US9271869, US9271779, US9271766, US9271741, US9265620, US9259329, US9259326, US9247952, US9237908, US9226832, US9226828, US9204908, US9204899, US9198937, US9192516, US9192395, US9173678, US9173650, US9173647, US9161784, US9161773, US9155544, US9155532, US9149314, US9149286, US9149281, US9138254, US9138222, US9133431, US9125723, US9125682, US9113994, US9101386, US9095413, US9095411, US9089438, US9089323, US9078691, US9067362, US9066808, US9061064, US9060767, US9050136, US9050112, US9044338, US9039741, US9033942, US9028549, US9017276, US9005250, US8998923, US8979929, US8974541, US8974511, US8968408, US8961609, US8954162, US8951295, US8951289, US8951255, US8936805, US8920828, US8883499, US8882836, US8882793, US8876827, US8852256, US8852137, US8852136, US8845699, US8845639, US8845637, US8840632, US8828070, US8827981, US8815099, US8814937, US8814902, US8814879, US8814873, US8808376, US8808329, US8801787, US8801766, US8801626, US8790380, US8784801, US8771678, US8765210, US8758290, US8747439, US8740979, US8721702, US8721647, US8709042, US8691216, US8690857, US8685052, US8676348, US8663303, US8663228, US8657842, US8652138, US8647346, US8642060, US8642059, US8617208, US8617185, US8617163, US8613745, US8603512, US8591583, US8585704, US8579902, US8577469, US8568416, US8568047, US8556978, US8551171, US8551097, US8540717, US8535380, US8535327, US8518123, US8496657, US8470043, US8469961, US8454617, US8454612, US8454603, US8449490, US8430881, US8419653, US8409284, US8409206, US8404229, US8403943, US8399619, US8398641, US8398638, US8398579, US8394146, US8394102, US8393814, US8388624, US8388550, US8366773, US8366712, US8361155, US8361007, US8357198, US8357197, US8337834, US8323341, US8303516, US8298187, US8257437, US8257356, US8246947, US8246265, US8231678, US8226312, US8221397, US8221012, US8192436, US8192435, US8187333, US8157786, US8142477, US8127770, US8119121, US8118844, US8118779, US8114082, US8105384, US8092456, US8088150, US8075618, US8062300, US8062298, US8057544, US8048080, US8029511, US8025698, US8021425, US8002836, US7998213, US7988716, US7967865, US7967864, US7963993, US7963915, US7959679, US7959577, US7955391, US7955312, US7938830, US7918854, US7918849, US7914545, US7905923, US7905874, US7887538, US7879027, US7857813, US7850382, US7842304, US7842041, US7824390, US7811291, US7799833, US7785368, US7775734, US7771716,

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Abstract:
Source: US2004097927A A saddle−shaped compression device and methods of fastening a dysfunctional intervertebral disc are used to (1) compress a protrusion to alleviate nerve impingement, (2) fortify the annulus to stabilize a motion segment, (3) minimize the inward/outward bulging and delamination of the annulus, (4) atrophy the nerve to treat discogenic pain, (5) correct the curvature of spinal deformities, (6) elevate the disc space to treat spinal stenosis, and (7) seal the seepage of nucleus pulposus from a herniated disc.

0) US2015025310A – MEDICAL APPLICATOR

18) Family number: 51100365 (US2015025310A) © PatBase

Title: MEDICAL APPLICATOR

Priority: GB20120003994 20120307 WO2013GB00094 20130306

Family:

Publication number	Publication date	Application number	Application date
EP2825112 A2	20150121	EP20130714989	20130306
GB201203994 A0	20120418	GB20120003994	20120307
GB201304031 A0	20130417	GB20130004031	20130306
GB2510204 A1	20140730	GB20130004031	20130306
US2015025310 AA	20150122	US20130383299	20130306
WO13132209 A2	20130912	WO2013GB00094	20130306
WO13132209 A3	20131114	WO2013GB00094	20130306

Probable Assignee: OI MEDICAL LTD

Assignee(s):(std)**:** EVERINGHAM JOHN S ; FILSHIE GILBERT M ; OI MEDICAL LTD ; OL MEDICAL LTD

Assignee(s): OL MEDICAL LIMITED

Inventor(s):(std)**:** EVERINGHAM JOHN SANDERS ; FILSHIE GILBERT MARCUS

Inventor(s): GILBERT MARCUS FILSHIE ; JOHN SANDERS EVERINGHAM

Agent(s): FRANKS AND CO LTD

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 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 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

International class (IPC 8–9): A61B1/00 A61B1/005 A61B1/015 A61B1/04 A61B1/07 A61B17/12 A61B17/42 A61F6/22 (Advanced/Invention)

CPC: A61B2017/00477 A61B2017/00734 A61F6/22 A61B17/12022 A61F6/225 A61B17/12031 A61B17/12159 A61B17/12013 A61B1/00087 A61B1/00133 A61B1/07 A61B1/00101 A61B1/0057 A61B1/00006 A61B1/015 A61B1/04 A61B1/00045 A61B2017/12095 A61B2017/00323 A61B2017/00398 A61F6/18 A61B2090/306 A61B2090/309 A61B90/30

US class: 600/103 600/106

Classification Explorer

Cited documents: WO9712569 A1, WO07072004 A1, US6709667 BA, US2008154256 AA, GB2009002450, EP0646356 A2, CA2507142 AA,

Forward Citations: US2015230802, GB2517962, GB2517962, CN103860314,

Abstract:
Source: US2015025310A An applicator for use in the fitting of an occlusive plug of the screw in kind to a fallopian tube, said applicator comprising: a body member; an eyepiece fitted to one end of the body member; an elongate probe carried by, and projecting from the other end of the body member; a fibre optic cable extending from the eye−piece along the interior of the probe to a terminal end of the probe distal from the body member; a nose piece movably mounted at said distal end of the probe and adapted to releasably receive a rear, drive end of an occlusive plug; a mechanical connection extending between the body member and the nose−piece whereby the practitioner may, within limits, vary the angle of the nose−piece with respect to its carrier tube; and a rotational drive means extending between the body member and the nose−piece to apply torque and hence rotational movement to an occlusive plug temporarily held by the nose−piece.

0) US2002095150A – ELECTROSURGICAL SYSTEM AND METHOD

19) Family number: 29440185 (US2002095150A) © PatBase

Title: ELECTROSURGICAL SYSTEM AND METHOD

Priority:

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GB19970026952	19971219	GB19980014727	19980707	GB19970015199	19970718
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Family:

Publication number	Publication date	Application number	Application date
AR007447 AA	19991027	AR1997P102742	19970623
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ZA9806315 A	19990122	ZA19980006315	19980716	
ZA9806316 A	19990603	ZA19980006316	19980716	

Probable Assignee: GYRUS MEDICAL LTD

Assignee(s):(std)**:** CYRUS MEDICAL LTD ; GOBLE COLIN CHARLES OWEN ; GYRUS MEDICAL LTD ; GOBLE NIGEL MARK ; GYRUS MEDICAL LIMITED ; SYROP ALAN NIGEL

Assignee(s): CINETIC LANDIS GRINDING LTD ; CYRUS MEDICAL LIMITED ; GOBLE NIGEL M ; NOT GIVEN ; GYRUS MEDICAL LTD ST MELLONS ; GRUS MEDICAL LTD

Inventor(s):(std)**:** ALAN NIGEL SYROP ; COLIN CHARLES OWEN GOBLE ; GOBLE CHARLES ; GOBLE COLIN C O ; GOBLE COLIN CHARLES ; GOBLE COLIN CHARLES OWEN ; GOBLE COLIN CO ; GOBLE MARK ; GOBLE NIGEL M ; NIGEL M GOBLE ; NIGEL MARK GOBLE ; SYROP ALAIN NIGEL ; SYROP ALAN N ; SYROP ALAN NIGEL ; SYROP NIGEL ; GOBLE NIGEL MARK

Inventor(s): GOBLE NIGEL

Agent(s): GRIFFITH HACK; RICHES MCKENZIE AND HERBERT LLP; NIXON AND VANDERHYE PC

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM EE ES FI FR GA GB GD GE GH GM GN 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 NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

International class (IPC 8–9): A61B17/22 A61B17/32 A61B17/34 A61B18/00 A61B18/04 A61B18/12 A61B18/14 A61B18/16 A61B18/18 A61B19/00 A61M1/00 (Advanced/Invention); A61B17/22 A61B17/32 A61B18/00 A61B18/12 A61B19/00 A61M1/00 (Advanced/Non–invention); A61B17/34 A61B18/12 A61B18/14 A61B18/18 (Core/Invention); A61B17/22 A61B17/32 A61B18/00 A61B19/00 A61M1/00 (Core/Non–invention)

International class (IPC 1–7): A61B1/005 A61B17/36 A61B17/39 A61B18/04 A61B18/08 A61B18/12 A61B18/14 A61B18/18

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US class: 128/898 604/22 604/35 606/167 606/171 606/180 606/32 606/34 606/34P 606/41 606/41P 606/41S 606/45 606/46 606/47 606/48 606/48S 606/49 606/5 606/50 606/50S 607/101 607/104 607/105

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CN103857354, CN103857354, CN102665615, CN102665615, CN102395324, AU2008285528,

Abstract:
Source: US2002095150A An electrosurgical system comprises a radio frequency generator (1), an electrosurgical instrument (E1), and a fluid enclosure (42). The generator (1) has a radio frequency output for delivery of power to the electrosurgical instrument (E1) when immersed in an electrically−conductive fluid. The electrosurgical instrument (E1) has an electrode assembly (32) at the distal end thereof, the electrode assembly comprising a tissue treatment electrode (34), and a return electrode (38) axially spaced therefrom in such a manner as to define, in use, a conductive fluid path that completes an electrical circuit between the tissue treatment electrode and the return electrode. The fluid enclosure (42) is adapted to surround an operation site on the skin of a patient or an incision leading to a cavity surgically created within the patient's body. The fluid enclosure (42) includes sealing means (44) for sealing against the patient's tissue, and the fluid enclosure includes at least one port (50a, 52a) through which the electrosurgical (E1) is insertable, and through which the electrically−conductive fluid can enter and/or leave the enclosure. The fluid enclosure device of the present invention can also be used to treat tumours within the colon. The enclosure, which includes a proximal and a distal bung, is inserted into the colon in a deflated condition and then inflated with a conductive fluid or gas. The colon can be supported against the pressure of the fluid or gas with a pressure sleeve that has been inserted to surround the region of the colon being treated. An electrosurgical instrument is then inserted into the colon and manipulated to vaporize the tumor.

0) US5595909A – FILTER DEVICE

20) Family number: 11833625 (US5595909A) © PatBase

Title: FILTER DEVICE

Priority: US19880197700 19880523 US19890355115 19890518 US19950376095 19950120 US19920864893 19920403 US19900605371 19901029 US19950414499 19950331 WO1991US07952 19911029 US19960726652 19961007 WO1996US03316 19960321 WO1989US02228 19890519

Family:

Publication number	Publication date	Application number	Application date
AT120485 E	19950415	AT19890907444T	19890519
AT219140 E	20020615	AT19960908752T	19960321
AU199190315 A1	19920526	AU19910090315	19911029
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WO9630492 A1	19961003	WO1996US03316	19960321

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Agent(s): BORDEN LADNER GERVAIS LLP

Designated states: AT AU BE CA CH DE DK ES FI FR GB GR IE IT JP KR LI LU MC NL PT SE

International class (IPC 8–9): A61F2/02 A61K35/12 A61L27/00 A61M1/16 A61M1/34 A61M1/36 C12M3/00 C12M3/06 C12N11/04 C12N5/00 C12N5/06 C12N5/071 C12N5/10 (Advanced/Invention); A61K35/12 A61M1/16 A61M1/34 C12M3/00 (Advanced/Non–invention); A61F2/02 A61L27/00 A61M1/36 C12M3/00 C12M3/06 C12N11/00 C12N5/00 C12N5/06 C12N5/071 C12N5/10 (Core/Invention); A61K35/12 A61M1/16 A61M1/34 (Core/Non–invention)

International class (IPC 1–7): A61L27/00 A61M1/36 A61M37/00 C12M1/40 C12M3/00 C12M3/04 C12M3/06 C12N1/12 C12N11/04 C12N5/00 C12N5/06 C12P1/00

CPC: Y10S435/813 A61M1/1625 A61M1/3475 A61M1/3489 C12M21/08 A61K2035/126 C12M25/10 C12M29/16 C12N5/0671 C12N2500/02 C12N2510/00 C12M25/12 C12N2500/90 C12M23/34 A61F2/022 C12M25/14 C12M29/04 C12M29/10 C12N2533/30 C12N2533/54

European class: A61F2/02B C12M21/08 C12M23/34 C12M25/10 C12M25/12 C12M25/14 C12M29/04 C12M29/10 C12M29/16 C12M3/00 C12N5/00S C12N5/06B14A C12N5/06R K61K35/12C K61M1/16B1C K61M1/34F1 K61M1/34F6B M12N500/02 M12N500/99 M12N510/00 M12N533/30 M12N533/54

US class: 435/177 435/182 435/240.22 435/240.242 435/289.1 435/297.2 435/297.4 435/299.1 435/325 435/363 435/382 435/395 435/396 435/400 435/401 435/41 435/70.1 435/813 604/4 604/6.09

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Abstract:
Source: US5595909A A filter device containing cell masses and single cells is described. The device contains porous hollow fibers and hepatocytes entrapped within a contracted gel matrix.

21) Family number: 31478534 (US2004206448A) © PatBase

Title: STRUCTURES, SYSTEMS AND METHODS FOR JOINING ARTICLES AND MATERIALS AND USES THEREFOR

Priority:

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Family:

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Inventor(s): ROMANO LINDA ; ALFARO ARTHUR ; SLOAN L ; ROBERT S DUBROW ; ROGERS ERICA ; RICHARD L KRONENTHAL ; PARCE J ; MICHAEL E GERTNER ; MATTHEW D COLLIER ; L DOUGLAS SLOAN ; KRONENTHAL RICHARD ; HARDEV VEERAL ; GERTNER MICHAEL ; ERICA J ROGERS ; DUBROW ROBERT SAN CARLOS ; DANIELS ROBERT ; DANIELS R ; COLLIER MATTHEW ; ARTHUR A ALFARO ; BOCK LAWRENCE

Agent(s): PHILLIPS ORMONDE FITZPATRICK; DAVIES COLLISON CAVE PTY LTD; DAVIES COLLISON CAVE; FETHERSTONHAUGH AND CO; SMART AND BIGGAR; LEINWEBER AND ZIMMERMANN; KIDDLE SIMON JOHN; NANOSYS INC; QUINE INTELLECTUAL PROPERTY LAW GROUP PC; ANDREW L; FILLER ANDREW L; DONNA M; STERNE KESSLER GOLDSTEIN AND FOX PLLC; QUINE JONATHAN ALAN 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 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 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

International class(IPC 8–9)**:** A61B17/00 A61B17/03 A61B17/08 A61B17/11 A61B17/56 A61B17/58 A61B17/68 A61B17/86 A61C8/00 A61F13/00 A61F13/02 A61F13/06 A61F13/56 A61F2/00 A61F2/02 A61F2/06 A61F2/28 A61F2/30 A61F2/32 A61F2/38 A61F2/40 A61F2/42 A61F2/44 A61F2/82 A61F2/84 A61F5/00 A61K31/337 A61K31/436 A61K33/38 A61K45/00 A61K47/30 A61K47/48 A61K9/00 A61K9/70 A61L15/00 A61L15/16 A61L15/58 A61L26/00 A61L27/00 A61L27/28 A61L27/34 A61L27/38 A61L27/50 A61L27/54 A61L31/00 A61L31/08 A61L31/10 A61L31/14 A61L31/16 A61M31/00 A61M37/00 A61P31/04 A61P35/00 A61P41/00 B01D24/02 B01J2/00 B01J20/28 B01J20/32 B05D3/00 B05D3/10 B05D5/00 B32B15/02 B32B19/00 B32B19/04 B32B27/04 B32B3/06 B32B3/20 B32B37/00 B32B5/16 B32B7/04 B32B9/00 B81B3/00 B82B1/00 B82B3/00 B82Y30/00 C01B33/02 C09J5/00 C09J5/02 C09J9/00 C09K3/18 C12N15/87 C12P1/00 C23C16/00 C23F1/00 C40B30/00 C40B40/00 D01F6/00 D01F9/08 D01F9/10 D01F9/127 D01F9/14 D02G3/00 D04H1/42 D04H1/4382 D04H13/00 D04H3/00 D04H5/00 G01N1/00 G01N1/10 G01N1/36 G01N27/62 H01J49/00 H01J49/04 H01L21/44 (Advanced/Invention);
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Abstract:
Source: US2004206448A This invention provides novel nanofibers and nanofiber structures which posses adherent properties, as well as the use of such nanofibers and nanofiber comprising structures in the coupling and/or joining together of articles or materials.

22) Family number: 30510156 (US2005096498A) © PatBase

Title: SIZING AND SHAPING DEVICE FOR TREATING CONGESTIVE HEART FAILURE

Priority:

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Family:

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Probable Assignee: CARDIOVASCULAR TECHNOLOGIES INC

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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 TH TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): A61B17/00 A61B17/03 A61B17/04 A61B17/06 A61B17/064 A61B17/08 A61B17/10 A61B17/11 A61B17/12 A61B17/32 A61B17/34 A61B18/04 A61B18/14 A61B19/00 A61B5/103 A61F2/84 A61M25/01 A61M29/04 A61M31/00 (Advanced/Invention);
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A61B A61M (Subclass/Invention)

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Abstract:
Source: US2005096498A A kit and method are described for treating congestive heart failure. The kit may comprise multiple components including a shaping device, deployment tool, patch, and suture. The method may utilize one or more of these components.

0) US2003018299A – MEDICAL INJECTION APPARATUS

23) Family number: 27161059 (US2003018299A) © PatBase

Title: MEDICAL INJECTION APPARATUS

Priority: US20010298310P 20010614 US20010298620P 20010614 WO2002US18722 20020614 US20030714154 20031114 US20020172773 20020614 US20060454540 20060616

Family:

Publication number	Publication date	Application number	Application date
AU2002345667 AA	20030102	AU20020345667	20020614
AU2002345667 BB	20060525	AU20020345667	20020614
CA2455326 AA	20031215	CA20022455326	20020614
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EP1418964 A2	20040519	EP20020744316	20020614
MXPA03011731 A1	20040701	MX2003PA11731	20020614
US2003018299 AA	20030123	US20020172773	20020614
US2004106892 AA	20040603	US20030714154	20031114
US2007078435 AA	20070405	US20060454540	20060616
US6666848 BB	20031223	US20020172773	20020614
WO02102435 A2	20021227	WO2002US18722	20020614
WO02102435 A3	20040311	WO2002US18722	20020614

Probable Assignee: SUNEVA MEDICAL INC

Assignee(s):(std)**:** ANDERSON RUSSELL ; ARTES MEDICAL USA INC ; STONE CORBETT

Assignee(s): SUNEVA MEDICAL INC ; VENTURE LENDING AND LEASING V INC ; ARTF ACQUISITION CORP ; COWEN HEALTHCARE ROYALTY PARTNERS LP ; ARTES MEDICAL INC ; ARTES MEDICAL U INC SA

Inventor(s):(std)**:** CORBETT STONE ; STONE CORBETT ; ANDERSON RUSSELL

Agent(s): SPRUSON AND FERGUSON; SMART AND BIGGAR; HELLER EHRMAN LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

International class (IPC 8–9): A61M31/00 A61M5/178 A61M5/20 A61M5/315 A61M5/32 (Advanced/Invention); A61B1/273 A61B17/00 A61F2/00 A61M25/00 (Advanced/Non–invention); A61M31/00 A61M5/20 A61M5/315 (Core/Invention); A61B1/273 A61B17/00 A61F2/00 A61M25/00 (Core/Non–invention)

International class (IPC 1–7): A61J1/05 A61M31/00 A61M5/178 A61M5/20 A61M5/32 A61M51/78

CPC: A61B17/0625 A61B1/2736 A61B17/00491 A61B2017/00805 A61F2/0036 A61M5/31511 A61M5/31581 A61M5/31595 A61M2025/0089 A61M2025/0091 A61M25/0084

European class: A61B17/062N A61M25/00T40A A61M25/00T5 A61M5/20 A61M5/315F2A2 K61B1/273D K61B17/00L K61B17/00R9 K61F2/00B6B K61M25/00T40A3 K61M25/00T40A3F K61M5/315C K61M5/315F3B2

US class: 604/135 604/135P 604/164.01 604/164.010S 604/229 604/229S 604/239 604/272 604/272S 604/507 604/507P 604/61 604/61P

Classification Explorer

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Forward Citations: WO16057314, WO12031233, WO12031233, WO09058883, WO04037313, WO04037313, USD774182, USD763433, USD750768, US9642661, US9622736, US9615822, US9603591, US9579257, US9572655, US9561025, US9539003, US9538998, US9532777, US9526648, US9510821, US9510819, US9504460, US9498204, US9492158, US9486211, US9468433, US9445827, US9433407, US9414925, US9414833, US9402621, US9393177, US9387151, US9381013, US9370350, US9357992, US9357991, US9314241, US9295691, US9278199, US9271713, US9259217, US9216078, US9173651, US9149267, US9078644, US9066690, US9023031, US9017381, US9005287, US8998949, US8968364, US8968284, US8962002, US8956632, US8939970, US8936621, US8932331, US8920414, US8900314, US8852216, US8840645, US8815228, US8801783, US8777956, US8771352, US8771316, US8721684, US8709395, US8672969, US8672968, US8652172, US8652171, US8632569, US8608777, US8597327, US8574235, US8562647, US8562645, US8551140, US8518032, US8506597, US8500818, US8496653, US8475815, US8465482, US8431141, US8409253, US8403927, US8403888, US8364237, US8361113, US8343227, US8337525, US8317825, US8303604, US8298262, US8292921, US8287554, US8277468, US8273106, US8251998, US8231654, US8221454, US8177781, US8147397, US8137382, US8128658, US8118836, US8088130, US8057494, US8034090, US7959650, US7914539, US7910134, US7909851, US7905904, US7905903, US7896893, US7857830, US7857823, US7846180, US7776057, US7749250, US7736373, US7722633, US7713277, US7658751, US7608098, US7608092, US7601165, US7449020, US7291129, US6936053, US6929623, US6926699, US6835200, US6821285, US2012283625, US2011098630, US2010322982, US2010285078, US2010145306, US2009149831, US2009110736, US2008208164, US2008119823, US2007123935, US2007003584, US2006184120, US2005159743, US2005090780, US2003161824, US2003055442, US2003036804, US2003032925, EP2229128, EP2229128, EP2205194,

Abstract:
Source: US2003018299A An injection apparatus includes components that facilitate injection of relatively viscous materials into a patient. An injection apparatus may include a transition−bore needle apparatus, which has a proximal end, a distal end, and a lumen extending from the proximal end to the distal end, in which the diameter of the proximal end is greater than the diameter of the distal end. An injection apparatus may include a hand−held injection facilitation apparatus, which may be coupled to a syringe. The hand−held injection facilitation apparatus can include a pivot arm and a body with a rod disposed within the body and coupled to the pivot arm. Movement of the pivot arm results in a proximal or distal movement of the rod within the body to effectively cause material to be expelled from the syringe. An injection apparatus may include a transition−bore needle apparatus and a hand−held injection facilitation apparatus in combination.

24) Family number: 1114593 (US3856016A) © PatBase

Title: METHOD FOR MECHANICALLY APPLYING AN OCCLUSION CLIP TO AN ANATOMICAL TUBULAR STRUCTURE

Priority: DE19742405390 19740205 DE19742405390 19740207 US19740501079 19740827 US19720303314 19721103 DE19742405890 19740207

Family:

Publication number	Publication date	Application number	Application date
AT2975 A	19760515	AT19750000029	19750103
AT334503 B	19760125	AT19750000029	19750103
BR7500478 A	19751111	BR19750000478	19750123
CH588641 A	19770615	CH19750001116	19750130
DD115186 C	19750912	DD19740182711	19741202
DE2405390 A1	19750814	DE19742405390	19740205
DE2405890 A1	19750814	DE19742405890	19740207
ES434508 A1	19761216	ES19750434508	19750206
FR2260701 A1	19750905	FR19750000878	19750113
FR2260701 B1	19790928	FR19750000878	19750113
GB1497343 A	19780105	GB19750005414	19750207
IT1031333 A	19790430	IT19750019801	19750131
JP50110111 A2	19750829	JP19750016164	19750207
SE7501259 A	19750808	SE19750001259D	19750205
US3856016 A	19741224	US19720303314	19721103
US3954108 A	19760504	US19740501079	19740827
US3973865 A	19760810	US19750543542	19750123
ZA7500277 A	19760128	ZA19750000277	19750115

Probable Assignee: SIEMENS AG

Assignee(s):(std)**:** DAVIS HUGH J ; SIEMENS AG ; DAVIS H

Assignee(s): DAVIS H US ; WINIASZ MICHAEL EDWARD ; SIEMENS AG DT ; SIEMENS AKTIENGESELLSCHAFT ; DAVIS HUGH J DR ; CABOT MEDICAL A NJ CORP CORP ; CABOT MEDICAL CORP ; CABOT TECHNOLOGY CORP ; COOPER MEDICAL CORP ; COOPER MEDICAL DEVICES CORP

Inventor(s):(std)**:** DAVIS H ; DAVIS HUGH J ; DAVIS HUGH J DR ; MUGELE K ; MUGELE KURT ; MUGELE KURT WILLY DIPL ING

Inventor(s): WILLY DIPL ING MUGELE KURT ; J ; DAVIS H US

International class (IPC 8–9): A61B1/303 A61B17/122 A61F6/20 F04D23/00 (Advanced/Invention); A61B17/32 F02B3/06 (Advanced/Non–invention); A61B1/303 A61B17/12 A61F6/00 F04D23/00 (Core/Invention); A61B17/32 F02B3/00 (Core/Non–invention)

International class (IPC 1–7): A61B17/10 A61B17/12 B21D5/16 F04D23/00 F04D29/30 F04D5/00

CPC: F04D23/008 Y10T24/1467 Y10T24/152 A61B1/303 A61B17/122 A61B17/32 A61F6/204 F02B3/06

European class: A61B1/303 A61B17/122 A61F6/20B2 F04D23/00R K61B17/32 R02B3/06

US class: 128/32.5 128/325 128/831 24/23W 24/30.5W 415/119 415/53T 415/55.1 416/240 600/104 606/142 606/158 72/409.01

Classification Explorer

Cited documents: US3827438 A, US3814102 A, US3777538 A, US3763860 A, US3708149 A, US3613661 A, US3556680 A, US3518993 A, US3463156 A, US3378010 A, US3355095 A, US3326216 A, US3270745 A, US3232173 A, US3202343 A, US3194487 A, US3109580

A, US3006603 A, US2890519 A, US2599662 A, US2031682 A, US190641 A, US1482290 A, US1116851 A, FR1382230 A, DE1091700 B,

Forward Citations: WO9818389, WO9615726, WO8501650, WO7901071, WO16012585, WO13147974, WO13136016, WO07087834, USRE36043, USD611144, US9656063, US9650965, US9624834, US9585647, US9585646, US9579091, US9574563, US9554826, US9554786, US9510826, US9498196, US9486191, US9468440, US9456811, US9414824, US9414820, US9408659, US9408594, US9402762, US9402625, US9398914, US9393023, US9364209, US9345476, US9332976, US9320522, US9314230, US9308023, US9303533, US9303514, US9297387, US9295469, US9282973, US9282965, US9271707, US9265486, US9249806, US9241696, US9238127, US9220880, US9173644, US9149276, US9089674, US9089311, US9066741, US9060769, US9050087, US9050068, US9034053, US9017349, US9017347, US8986335, US8956388, US8926656, US8926633, US8920442, US8915930, US8905937, US8900250, US8894666, US8893947, US8876820, US8858594, US8852218, US8821534, US8821516, US8820602, US8808310, US8784447, US8777835, US8764768, US8758400, US8758399, US8758398, US8758396, US8753356, US8752214, US8740937, US8728119, US8728095, US8726906, US8695606, US8690910, US8672953, US8657852, US8647368, US8636754, US8631991, US8617184, US8603136, US8603116, US8597325, US8590760, US8585836, US8585718, US8579932, US8556930, US8551139, US8529587, US8518057, US8500760, US8491610, US8486108, US8486092, US8480696, US8469995, US8460331, US8454650, US8409220, US8398676, US8398656, US8336552, US8324193, US8323312, US8316854, US8316853, US8313497, US8303624, US8257390, US8241210, US8236026, US8226681, US8202294, US8202293, US8202283, US8192461, US8192459, US8182497, US8132566, US8128644, US8109427, US8052700, US8052669, US8048108, US8048101, US8048086, US8007512, US7981133, US7972265, US7959553, US7938842, US7931669, US7931183, US7918873, US7905900, US7901428, US7901420, US7887563, US7887555, US7879071, US7871409, US7867249, US7867163, US7857828, US7854810, US7850797, US7850709, US7842068, US7841502, US7828817, US7819895, US7806910, US7806904, US7743958, US7686819, US7645285, US7635385, US7597698, US7553315, US7526342, US7497857, US7398781, US7384423, US7322994, US7288096, US7264587, US7223273, US7214180, US7211040, US7204843, US7195142, US7169158, US7083636, US7066875, US7059510, US7037066, US7033137, US7001404, US6932562, US6769594, US6726697, US6705986, US6663640, US6558313, US6511494, US6506200, US6468051, US6428468, US6422808, US6174128, US6086586, US6071232, US6024748, US5984939, US5957927, US5947994, US5947970, US5899673, US5833696, US5810711, US5797958, US5797939, US5792168, US5772576, US5758665, US5707389, US5707380, US5665100, US5655884, US5642986, US5626461, US5620452, US5611358, US5611357, US5584656, US5487746, US5449365, US5445167, US5441509, US5409357, US5395030, US5383881, US5382255, US5382254, US5373840, US5300081, US5190560, US5171250, US5156608, US5062846, US4951860, US4813407, US4805618, US4646740, US4635634, US4616651, US4602631, US4579118, US4570633, US4500253, US4474530, US4462761, US4451201, US4440170, US4414721, US4273129, US4242902, US4225288, US4190399, US4178920, US4152920, US4141674, US4064881, US4027510, US3924629, US2014301821, US2013165953, US2011230903, US2011220703, US2011166584, US2011144662, US2011066163, US2010305591, US2010274264, US2010274263, US2010274262, US2010237129, US2010179570, US2010160935, US2010160931, US2010145362, US2010069955, US2010069924, US2010057101, US2010049208, US2009318816, US2009299381, US2009270912, US2009023981, US2009012545, US2008312670, US2008300629, US2008296344, US2008249547, US2008027465, US2008004639, US2007208230, US2007106314, US2007078057, US2007062999, US2006289601, US2006265012, US2006229644, US2006206124, US2005277959, US2005261642, US2005220614, US2005087580, US2004162462, US2004111101, US2004092971, US2004078047, US2004010274, US2004010271, US2003231953, US2003222117, US2003208213, US2003181930, US2003120285, US2002177860, US2002019642, JP59225046, JP56044493, FR2437820, EP2977587, EP2809881, EP2776678, EP2776678, EP2251547, EP0790804, EP0567965, EP0559417, EP0450362, DE4437935, DE4437935, DE3613198, DE3613198, DE3442843, DE2838925, DE2741910, DE2625425, DE2609987, DE19849836, DE19847522, DE19518101, DE19518101, DE102011001891, DE102011001891, DE102011001890, DE102006001344, CN102018547,

Abstract:
Source: US3856016A An occlusion clip which includes two laterally spaced clip portions interconnected at both ends by connecting portions and provided with indexing means in one connecting portion, and an instrument for applying the occlusion clip which includes two jaws movable relative to one another adjacent one end of a tubular structure in such a manner as to close the occlusion clip in a predetermined manner, one of the jaws, particularly the movable jaw being provided with a complementary indexing means and the tubular structure accommodating,

if necessary, an optical viewing device as well as a means for emitting a beam of light within the area of the jaws.

0) US2012296353A – GRAFT DEVICES AND METHODS OF FABRICATION

25) Family number: 49180823 (US2012296353A) © PatBase

Title: GRAFT DEVICES AND METHODS OF FABRICATION

Priority: US20090291820P 20091231 US20100520009 20101230 WO2010US62487 20101230 US20160044369 20160216 US20120520009 20120720

Family:

Publication number	Publication date	Application number	Application date
CA2785989 AA	20120628	CA20102785989	20101230
EP2519188 A2	20121107	EP20100841716	20101230
EP2519188 A4	20170322	EP20100841716	20101230
US2012296353 AA	20121122	US20100520009	20101230
US2016157989 AA	20160609	US20160044369	20160216
US9295541 BB	20160329	US20100520009	20101230
WO11082295 A2	20110707	WO2010US62487	20101230
WO11082295 A3	20111117	WO2010US62487	20101230

Probable Assignee: NEOGRAFT TECHNOLOGIES INC

Assignee(s):(std)**:** EL KURDI MOHAMMED S ; FLAHERTY J CHRISTOPHER ; GARIBOTTO JOHN T ; SOLETTI LORENZO ; MCGRATH JON ; NEOGRAFT TECHNOLOGIES INC ; WAGNER DAVID ; NEOGRAFT TECH INC

Inventor(s):(std)**:** EL KURDI MOHAMMED S ; FLAHERTY J CHRISTOPHER ; GARIBOTTO JOHN T ; MCGRATH JON ; SOLETTI LORENZO ; WAGNER DAVID

Agent(s): RICHES MCKENZIE AND HERBERT LLP; JOHNSON YVONNE CATHERINE; WILSON SONSINI GOODRICH AND ROSATI PC; BARNES REBECCA N

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 TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9)**:** A61B17/11 A61F2/04 A61F2/06 A61F2/07 A61L27/04 A61L27/14 A61L27/16 A61L27/18 A61L27/28 A61L27/34 A61L27/36 A61L27/38 A61L27/40 A61L27/54 A61L27/56 A61L27/58 (Advanced/Invention); A61F2/04 (Advanced/Non–invention)

CPC: A61F2/06 A61F2/04 A61L27/14 A61L27/36 A61L27/58 A61L2430/36 A61L27/16 A61L27/18 A61L27/34 A61L27/54 A61L27/047 A61L27/56 A61L2300/412 A61F2/064 A61F2210/0076 A61F2250/0039

European class: A61F2/06 A61L27/14 A61L27/36 A61L27/58 K61F2/04 K61F2/06C K61L430/36

US class: 1/1 606/153 623/1.38 623/1.39 623/1.44

Classification Explorer

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US2004171545 AA, US2004146546 AA, US2004094873 AA, US2004073294 AA, US2004054406 AA, US2003109887 AA, US2002123786 AA, US2002042128 AA, US2002022853 AA, US2002004663 AA, KR100595487 B1, JP2006526658 T2, JP2006515186 T2, JP2004525272 T2, JP2003235880 A2, JP11076278 A2, EP0265176 A2, EP0095940 A2, CN1491728 A, CA2677033 AA,

Forward Citations: WO16038587, WO15140251, WO15055684, WO15027087, WO13090337, WO13063190, US9445874, US9295541, US9155610, US2014188212, ITMI20120646,

Abstract:
Source: US2012296353A A graft device is provided comprising a flow conduit and a surrounding covering. The graft device is for connecting between a first body space and a second body space. In one embodiment, the flow conduit is a vein, such as a harvested saphenous vein, useful as an arterial graft, for example and without limitation, in a coronary artery bypass procedure. Also provided are methods of preparing a graft device and connecting the graft between a first body space and a second body space, such as the aorta and a location on an occluded coronary artery, distal to the occlusion.

26) Family number: 34574478 (US4101984A) © PatBase

Title: Cardiovascular prosthetic devices and implants with porous systems

Priority:

CA19750226993 19750509
CA19760259054 19760813
CA19790340980 19791130
CA19770259054 19770916
CA19800286877 19800606
CA19770286877 19770916
US19760683382 19760505
GB19740075524 19751222
GB19070076434 19761019
CA19810369249 19810123
GB19760043407 19761019
GB19750052474 19751222
US19760683382 19760502
CA19800360677 19800919
US19800157952 19800609
US19820405763 19820806
US19790095965 19791120
US19820351526 19820223
US19820375442 19820506
US19810226366 19810119
US19830486796 19830630
US19760824296 19760815
US19790059786 19790723
US19770824296 19770815
US19850711759 19850314

Family:

Publication number	Publication date	Application number	Application date
CA1068052 A1	19791218	CA19760268132	19761217
CA1069252 A1	19800108	CA19750226993	19750509
CA1078552 A1	19800603	CA19790340980	19791130
CA1078552 A2	19800603	CA19790340980	19791130
CA1092303 A1	19801230	CA19760259054	19760813
CA1100191 A1	19810428	CA19770286877	19770916
CA1105652 A1	19810728	CA19800360677	19800919
CA1105652 A2	19810728	CA19800360677	19800919
CA1115456 A1	19820105	CA19810369249	19810123
CA1115456 A2	19820105	CA19810369249	19810123
DE2620631 A1	19761111	DE19762620631	19760510
DE2620631 B2	19810423	DE19762620631	19760510
DE2620631 C3	19820128	DE19762620631	19760510
FR2310122 A1	19761203	FR19760013980	19760510
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JP52001995 A2	19770108	JP19760052308	19760510
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US4458366 A	19840710	US19820405763	19820806
US4458366 C1	20010220	US19820405763	19820806
US4459252 A	19840710	US19820351526	19820223
US4627836 A	19861209	US19830486796	19830630
US4934381 A	19900619	US19850711759	19850314
US4936317 A	19900626	US19860924060	19861208

Probable Assignee: PACESETTER INC

Assignee(s):(std)**:** MAC GREGOR DAVID ; MAC GREGOR DAVID C ; MACGREGOR DAVID C ; DABUITSUDO SHII MATSUKUGUREEGA

Assignee(s): DABUITSUDO SHII MATSUKUGUREEGAA ; BODYCOTE ORTECH INC ; MACGREGOR DAVID C ISLINGTON ONTARIO ; MACGREGOR DAVID C ISLINGTON ONTARIO CA ; TELECTRONICS PACING SYSTEMS INC ; ORTECH CORP ; PACESETTER INC

Inventor(s):(std)**:** DABUITSUDO SHII MATSUKUGUREEGA ; MAC GREGOR DAVID C ; MACGREGOR DAVID C

Inventor(s): MACGREGOR DAVID C ISLINGTON ONTARIO CA ; DABUITSUDO SHII MATSUKUGUREEGAA ; C MACGREGOR DAVID

Agent(s): SIM AND MCBURNEY

International class (IPC 8–9): A61F2/00 A61F2/06 A61L27/14 A61L27/18 A61L27/34 A61L27/56 A61L33/00 A61L33/02 A61M1/10 A61N1/05 A61N1/36 (Advanced/Invention); A61F2/00 A61F2/06 A61L27/00 A61L33/00 A61M1/10 A61N1/05 A61N1/36 (Core/Invention)

International class (IPC 1–7): A61F1/00 A61F1/22 A61F1/24 A61H31/00 A61M1/03 A61M1/10 A61M11/00 A61M31/00 A61N1/04 A61N1/05 A61N1/06 A61N1/36 B29D27/04 F16H13/00

CPC: Y10T428/12042 A61N1/0565 A61F2/0077 A61F2/06 A61L27/14 A61L27/18 A61L27/34 A61L27/56 A61L33/022 A61N1/05

European class: A61F2/00L A61F2/06 A61L27/14 A61L27/18 A61L27/34 A61L27/56 A61L33/02B A61N1/05 A61N1/05N2

US class: 128/1D 128/419P 128/784 128/786 128/899 264/257 264/45.9 264/46.9 264/49 3/1 3/1.5 419/2 419/9 424/423 427/2 427/2.24 427/2.26 428/550 604/84 604/890.1 604/93 604/93.01 606/72 607/116 607/120 607/121 62/330.013 623/1.1 623/1.32 623/1.39 623/1.4 623/1.44 623/1.49 623/2.42 623/3.13 623/3.16 623/3.29 75/208R 75/222

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Abstract:
Source: US4101984A A novel cardiovascular prosthetic device or implant having many useful cardiovascular applications comprises a porous surface and a network of interconnected interstitial pores below the surface in fluid flow communication with the surface pores. Tissue forms a smooth thin adherent coating of self–determining thickness on the porous surface making it resistant to the formation of the blood clots normally associated with the presence of foreign bodies in the blood stream.

27) Family number: 30090773 (US2001056232A) © PatBase

Title: Magnetic resonance imaging transseptal needle antenna

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Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

International class (IPC 8–9): A61B1/273 A61B1/303 A61B1/307 A61B1/31 A61B10/00 A61B10/02 A61B19/00 A61B5/00 A61B5/05 A61B5/055 A61M25/01 G01N24/08 G01R33/28 G01R33/32

G01R33/34 G01R33/341 G01R33/36 G01R33/48 G01R33/485 G01R33/54 H01Q1/00 H01Q1/36 H01Q1/40 H01Q1/42 H01Q1/44 H01Q11/08 (Advanced/Invention);
A61B1/273 A61B1/303 A61B1/307 A61B1/31 A61B10/00 A61B10/02 A61B19/00 A61B5/00 A61B5/055 G01R33/32 G01R33/34 G01R33/36 G01R33/54 (Advanced/Non–invention);
A61B10/00 A61B10/02 A61B5/00 A61B5/055 A61M25/01 G01N24/00 G01R33/28 G01R33/32 G01R33/34 G01R33/48 G01R33/54 H01Q1/00 H01Q1/36 H01Q1/42 H01Q1/44 H01Q11/00 (Core/Invention);
A61B10/00 A61B10/02 A61B19/00 G01R33/32 G01R33/34 (Core/Non–invention)

International class (IPC 1–7): A01B5/05 A61B10/00 A61B5/00 A61B5/05 A61B5/055 A61M25/01 G01N24/08 G01R33/28 G01R33/32 G01R33/34 G01R33/341 G01R33/48 G01R33/485 G01R33/54 H01Q1/00

CPC: G01R33/3678 A61M25/09 G01R33/34053 H01Q1/42 A61B2090/374 A61B34/20 A61B2034/2051 A61B2090/3958 G01R33/287 A61B5/055 G01R33/341 G01R33/3657 G01R33/34084 A61B10/0275 A61B5/415 A61B1/273 A61B1/303 A61B1/307 A61B1/31 A61B5/418 A61B5/42 A61B5/4381 G01R33/285 G01R33/3628 H01Q1/36 H01Q1/362 H01Q1/40 H01Q1/44 H01Q11/08 A61B1/00154 G01R33/34007

European class: A61B1/00P3 A61B10/00C2S2 A61B10/02P6N A61B19/52H12 A61B5/055 A61B5/41J2 A61B5/41J8 A61B5/43M2 G01R33/28H G01R33/28H2 G01R33/341 G01R33/34A G01R33/34F1 G01R33/34G G01R33/36G G01R33/36H2 G01R33/36Q H01Q1/36 H01Q1/36B H01Q1/40 H01Q1/42 H01Q1/44 H01Q11/08 K61B1/273 K61B1/303 K61B1/307 K61B1/31 K61B10/02P6N K61B19/52H12B4 K61B19/52H8 K61B19/54L2 K61B5/055 K61B5/41J8 K61B5/42 K61M25/09 S01R33/34A S01R33/34G S01R33/36G

US class: 324/244 324/256 324/257 324/260 324/300 324/301 324/302 324/307 324/309 324/318 324/318S 324/322 600/407 600/409 600/410 600/410P 600/411 600/411P 600/411S 600/415 600/417 600/422 600/422P 600/423 600/423P 600/423S 600/424 600/562 600/564 600/567 606/130 977/865 977/865S

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Abstract:
Source: US2001056232A The invention describes a system, method, and means for an MRI transseptal needle that can be visible on an MRI, can act as an antenna and receive MRI signals from surrounding subject matter to generate high−resolution images and can enable real−time active needle tracking during MRI guided transseptal puncture procedures.

28) Family number: 46416189 (US2002150603A) © PatBase

Title: IMPLANTABLE BIOCOMPATIBLE IMMUNOISOLATORY VEHICLE FOR DELIVERY OF SELECTED THERAPEUTIC PRODUCTS

Priority:

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Family:

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Designated states: AT AU BE CA CH DE DK ES FI FR GB GR IT JP KR LI LU MC NL NO SE US

International class (IPC 8–9): A61F2/02 A61K35/12 A61K35/30 A61K35/39 A61K35/54 A61K38/18 A61K39/39 A61K39/395 A61K47/30 A61K47/36 A61K47/42 A61K48/00 A61K9/00 A61K9/48 A61K9/50 A61L27/00 A61P15/00 A61P25/00 A61P25/14 A61P25/28 A61P3/10 A61P31/18 A61P37/02 A61P37/06 A61P43/00 A61P5/24 C12N5/00 C12N5/071 C12N5/077 (Advanced/Invention);
A61F2/02 A61K35/12 A61K39/395 A61K47/36 A61L27/00 (Advanced/Non–invention);
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A61K35/12 (Core/Non–invention)

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European class: A61K35/12 A61K35/30 A61K35/39 A61K38/18F A61K48/00 A61K9/00M5D A61K9/00Z4 A61K9/48B C12N5/00C C12N5/00R C12N5/06B13F C12N5/06B22A C12N5/06B7A K61K35/12C K61K35/12C1 K61K48/00 M12N510/00 M12N510/02

US class: 264/4.1 424/198.1 424/422 424/423 424/424 424/424P 424/425 424/426 424/426P 424/427 424/430 424/434 424/437 424/463 424/489 424/490 424/493 424/497 424/520 424/93.7 424/93.700S 429/422 435/1.1 435/177 435/178 435/179 435/180 435/182 514/814 514/866 604/890.1

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Abstract:
Source: US2002150603A An immunoisolatory vehicle for the implantation into an individual of cells which produce a needed product or provide a needed metabolic function. The vehicle is comprised of a core region containing isolated cells and materials sufficient to maintain the cells, and a permselective, biocompatible, peripheral region free of the isolated cells, which immunoisolates the core yet provides for the delivery of the secreted product or metabolic function to the individual. The vehicle is particularly well−suited to delivery of insulin from immunoisolated islets of Langerhans, and can also be used advantageously for delivery of high molecular weight products, such as products larger than IgG. A method of making a biocompatible, immunoisolatory implantable vehicle, consisting in a first embodiment of a coextrusion process, and in a second embodiment of a stepwise process. A method for isolating cells within a biocompatible, immunoisolatory implantable vehicle, which protects the isolated cells from attack by the immune system of an individual in whom the vehicle is implanted. A method of providing a needed biological product or metabolic function to an individual, comprising implanting into the individual an immunoisolatory vehicle containing isolated cells which produce the product or provide the metabolic function.

29) Family number: 15938602 (US6332466B) © PatBase

Title: Ovarian capsules and methods of surgical contraception by ovarian encapsulation

Priority: US19970051941P 19970708 US19980110451 19980707

Family:

Publication number	Publication date	Application number	Application date
US6332466 BA	20011225	US19980110451	19980707

Probable Assignee: YOON INBAE

Assignee(s): YOON INBAE

Inventor(s):(std)**:** YOON INBAE

International class (IPC 8–9): A61F6/20 (Advanced/Invention); A61B17/12 (Advanced/Non–invention)

International class (IPC 1–7): A61F6/06

CPC: A61B17/12022 A61B17/12099 A61F6/206

European class: A61B17/12P5 A61F6/20C K61B17/12P

US class: 128/830 128/832

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Forward Citations: US9662117, US9526649, US9370656, US9072907, US9060771, US8992409, US8961448, US8874215, US8795153, US8764627, US8734318, US8696745, US8696543, US8678997, US8636809, US8602966, US8600510, US8556796, US8545384, US8509894, US8313423, US8290594, US8287444, US2015157836, US2011066254, US2009254106,

Abstract:
Source: US6332466B An ovarian capsule includes a capsule body enclosing an interior for receiving an ovary and defining a selectively openable, selectively closeable access. The access, when open, forms a gap, space or opening in the ovarian capsule through which an ovary is introduced in the interior. When the access is closed, withdrawal of the ovary from the interior is prevented whereby the ovary is encapsulated by the ovarian capsule to prevent fertilization of ova released by the encapsulated ovary. A method of encapsulating an ovary in the body of a patient includes the steps of introducing an ovarian capsule in the abdominal cavity of the patient, opening the ovarian capsule to provide access to the interior thereof, positioning an ovary of the patient within the interior of the capsule and closing the ovarian capsule to encapsulate the ovary and prevent withdrawal of the ovary from the ovarian capsule.

0) US3870048A – DEVICE FOR STERILIZING THE HUMAN FEMALE OR MALE...

30) Family number: 3797918 (US3870048A) © PatBase

Title: DEVICE FOR STERILIZING THE HUMAN FEMALE OR MALE BY LIGATION

Priority: US19730383475 19730730 US19740459414 19740409 US19740535942 19741223 US19750605217 19750815 US19740518617 19741029

Family:

Publication number	Publication date	Application number	Application date
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US4103680 A	19780801	US19750605197	19750815
US4374523 A	19830222	US19750605217	19750815

Probable Assignee: YOON IN BAE POTOMAC MD V ST A

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Assignee(s): YOON IN BAE POTOMAC MD V ST A

Inventor(s):(std)**:** YOON IN B ; YOON IN BAE

International class (IPC 8–9)**:** A61B1/313 A61B17/04 A61B17/12 A61B17/42 A61B19/00 A61F6/20 (Advanced/Invention); A61B17/30 (Advanced/Non–invention); A61B1/313 A61B17/04 A61B17/12 A61B17/42 A61B19/00 A61F6/00 (Core/Invention); A61B17/30 (Core/Non–invention)

International class (IPC 1–7)**:** A61B1/06 A61B1/30 A61B17/00 A61B17/04 A61B17/06 A61B17/12 A61B17/22 A61B17/42 A61N3/00

CPC: A61B17/42 A61F6/202 A61F6/208 A61B17/12013 A61B17/30 A61B2017/12018 A61B17/04 A61B1/313

European class: A61B1/313 A61B17/04 A61B17/12L2 A61B17/42 A61F6/20B A61F6/20L K61B17/12L4 K61B17/30

US class: 128/303A 128/326 128/6 128/754 128/831 600/104 600/164 600/567 606/140 606/141 606/206

Classification Explorer

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Abstract:
Source: US3870048A A method for sterilizing the human female by tubal ligation comprising the use of a ring applicator device having forceps means slidably mounted inside a cylindrical tube for grasping the Fallopian tube and pulling it within the device and means for pushing or otherwise displacing an elastic or stretchable ring over the portion of the tube held within the device, thereby effecting a ligature thereof. The procedure is preferably used in conjunction with a viewing device such as a laparoscope or a culdoscope. The placement of the elastic ring on the tubes eliminates the need for time–consuming procedures which are discomforting to the patient and the use of bulky and expensive equipment. Moreover, depending upon the size and elastic power of the rings, the sterilization can be made permanently or reversibly, as desired. The device and method are also applicable to the sterilization of the human male by the ligature of the vas.

31) Family number: 29755449 (US2001049355A) © PatBase

Title: METHODS AND COMPOSITIONS FOR INHIBITING ANGIOGENESIS

Priority:

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US19970867133 19970602
US20010875223 20010606
US20000511683 20000223
WO2001US05915 20010222
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US19970899304 19970723
US20010875114 20010606
US20030603387 20030625
US20020180959 20020626

Family:

Publication number	Publication date	Application number	Application date
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CA2410699 C	20040629	CA19982410699	19980723
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WO9912477 C2	19990617	WO1998US17574	19980826	

Probable Assignee: UNIV NORTHWESTERN

Assignee(s):(std)**:** GEN SURGICAL INNOVATIONS INC ; NORTHWESTERN UNIV ; UNIV NORTHWESTERN

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Inventor(s):(std)**:** BOUCK NOEL P ; CRAWFORD SUSAN E ; DAVID W DAWSON ; DAWSON DAVID W ; DOLL JENNIFER A ; GILLIS PAUL R ; NOEL P BOUCK ; PAUL R GILLIS ; STELLMACH VERONICA ; STELLMACH VERONICA M ; VOLPERT OLGA ; VAN BLADEL KEVIN H ; GILLIS PAUL ; DAWSON DAVID ; CRAWFORD SUSAN ; CO FRED H ; BOUCK NOEL

Inventor(s): SUSAN E CRAWFORD ; VERONICA M STELLMACH ; OLGA VOLPERT

Agent(s): FISHER ADAMS KELLY; FISHER ADAMS KELLY PTY LTD; FISHER ADAMS KELLY CALLINANS; GOWLING LAFLEUR HENDERSON LLP; HOFFMANN EITLE; GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAEUSSER ANWALTSSOZIETAET; MORGAN LEWIS AND BOCKIUS LLP

Designated states: AT AU BE CA CH CY DE DK ES FI FR GB GR IE IT JP LI LU MC NL PT SE TR

International class (IPC 8–9): A61B17/00 A61B17/02 A61K38/00 A61K38/16 A61K38/18 A61K38/22 A61K38/57 A61K45/00 A61K48/00 A61P15/00 A61P17/00 A61P17/14 A61P27/02 A61P35/00 A61P43/00 C07K14/81 C12N15/09 C12N5/06 C12N5/10 G01N33/574 G01N33/68 (Advanced/Invention);
A61B17/32 A61B19/00 A61K38/00 A61K38/22 A61K48/00 A61P35/00 C12N15/12 C12N15/63 C12N15/85 C12N5/10 (Advanced/Non–invention);
A61K38/00 A61K38/55 A61K45/00 A61P15/00 A61P17/00 A61P27/00 A61P35/00 A61P43/00 C12N15/09 C12N5/06 C12N5/10 G01N33/574 G01N33/68 (Core/Invention);
A61K48/00 (Core/Non–invention);
A61K A61P (Subclass/Invention)

International class (IPC 1–7): A61B1/32 A61B17/00 A61K31/711 A61K38/00 A61K38/16 A61K38/17 A61K38/18 A61K38/22 A61K38/57 A61K45/00 A61K48/00 A61P15/00 A61P17/00 A61P17/14 A61P27/02 A61P35/00 A61P43/00 C07D C07K14/81 C12N15/09 C12N15/63 C12N15/85 C12N5/00 C12N5/06 C12N5/10

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European class: A61B17/00B A61B17/02 A61B17/02E A61K38/18 A61K38/57 A61K48/00 C07K14/81B1 G01N33/574V G01N33/68M K61B17/00B K61B17/00R4 K61B17/02E K61B17/32H K61B19/26 K61B19/52B K61K38/00 K61K48/00

US class: 424/198.1 424/198.100S 424/537 424/571 424/574 434/70.1 434/70.3 434/701 434/703 435/320.1 435/325 435/377 435/377S 435/455 435/69.1 435/691 435/70.1 435/70.3 435/701 435/703 514/12 514/13.3 514/13.300P 514/13.300S 514/16.1 514/18.6 514/19.3 514/19.300S 514/19.5 514/19.500S 514/19.8 514/19.800S 514/2 514/20.7 514/20.700P 514/20.8 514/20.800S 514/20.9 514/20.900S 514/21 514/21.2 514/44 514/44.00R 514/44.00RP 514/44.00RS 514/44R 514/8 514/9.7 514/9.700P 600/204 600/205 600/210 600/226 600/231 600/235

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Abstract:
Source: US2001049355A The present invention provides a method of inhibiting angiogenesis within a tissue by providing exogenous SLED to cells associated with the tissue. The presence of exogenous SLED inhibits angiogenesis within the tissue, in part by interfering with the ability of vascular endothelia to expand within the tissue. The invention also provides a method for determining the severity of a tumor be assaying for the presence of SLED within the tumor. To facilitate the inventive methods, the present invention provides pharmaceutical compositions including sources of SLED.

32) Family number: 24709953 (US2003074052A) © PatBase

Title: BISTABLE SPRING CONSTRUCTION FOR A STENT AND OTHER MEDICAL APPARATUS

Priority:

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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

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A61B17/00 A61F2/04 (Advanced/Non–invention);
A61F2/82 F16L55/00 F16S3/00 (Core/Invention);
A61B (Subclass/Invention)

International class (IPC 1–7): A61B17/00 A61B17/11 A61F2/00 A61F2/06 A61M29/00 A61M29/02 F16K31/00

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Abstract:
Source: US2003074052A The present invention is directed to bistable cells and their use in devices, particularly medical devices such as stents, clamps and valves. An expandable stent formed of a plurality of bistable cells is described. The stent has two or more stable configurations, including a first stable configuration with a first diameter and a second stable configuration with a second, larger diameter. A valve comprising a bistable cell for use in eliminating incontinence is also disclosed.

33) Family number: 10337230 (US5454809A) © PatBase

Title: ELECTROSURGICAL CATHETER AND METHOD FOR RESOLVING ATHEROSCLEROTIC PLAQUE BY RADIO FREQUENCY SPARKING

Priority: US19890294270 19890106 US19910637992 19910103 US19940230439 19940419 US19930096651 19930722 US19920974670 19921122 US19920849638 19920305 WO1990US00105 19900108 US19960654146 19960528 WO1996US18466 19961108 US19950531453 19950921

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International class (IPC 8–9): A61B17/00 A61B17/22 A61B18/00 A61B18/04 A61B18/12 A61B18/14 A61B5/05 A61B5/06 A61F2/06 A61F2/82 A61M1/00 A61N1/04 A61N1/05 A61N1/40 (Advanced/Invention); A61B17/00 A61B17/22 A61B18/00 A61B18/04 A61B5/05 A61F2/06 A61F2/82 A61M1/00 (Advanced/Non–invention)

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Abstract:
Source: US5454809A A method, and device utilized to practice it, for the resolution of tissue by radio frequency sparking. The device of the present invention having a distal end which is insertable within and along the lumen of a tubular body member and manipulated there through to desired position where the device will be operated. The device comprises an elongated flexible hollow tube having a distal end, a proximal end, and a diameter smaller than the diameter of the tubular, body member into which the device is being inserted; passage means within the tube; a plurality of electrodes adjacent the distal end of the device; and means for selectively supplying radio frequency electrical current to at least one of said electrodes.

0) WO9428803A1 – CATHETER AND METHOD OF USE THEREOF CATHETER ET...

34) Family number: 8482432 (WO9428803A1) © PatBase

Title: CATHETER AND METHOD OF USE THEREOF

Priority: CA19932098246 19930611 WO1994CA00338 19940610

Family:

Publication number	Publication date	Application number	Application date
AU199470656 A1	19950103	AU19940070656	19940610
CA2098246 AA	19941212	CA19932098246	19930611
CA2098246 C	19990504	CA19932098246	19930611
WO9428803 A1	19941222	WO1994CA00338	19940610

Probable Assignee: HEC MEDICAL ARTS LTD

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Assignee(s): HALLIBURTON ALEXANDER GEORGE

Inventor(s):(std)**:** HALLIBURTON ALEXANDER G ; HALLIBURTON ALEXANDER GEORGE

Inventor(s): ALEXANDER GEORGE HALLIBURTON

Designated states: AT AU BB BE BF BG BJ BR BY CF CG CH CI CM CN CZ DE DK ES FI FR GA GB GE GN GR HU IE IT JP KE KG KP KR KZ LK LU LV MC MD MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SI SK SN TD TG TJ TT UA UZ VN

International class (IPC 8–9): A61B17/00 A61B17/22 (Advanced/Invention); A61B17/00 (Advanced/Non–invention); A61B17/22 (Core/Invention); A61B17/00 (Core/Non–invention)

International class (IPC 1–7): A61B17/22

CPC: A61B17/32075 A61B17/320783 A61B2017/00539 A61B2017/22055

European class: A61B17/3207S K61B17/00N2 K61B17/22H3 K61B17/3207P

Classification Explorer

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Abstract:
An endarterectomy catheter and method for removing obstructions from an artery comprises a cylindrical, oval, kidney shaped or other shape housing (110), the housing having an opening (120) inside which a primary shear (130) is movable. The primary shear is razor sharp and cylindrical or other shaped with a smooth or serrated or threaded finish on the inner diameter and movable by means of a firing wire (104) connected by an adapter to a trigger mechanism, which moves the primary shear backward and forward within the housing to excise, encapsulate and store obstructions that protrude into the opening. The primary shear can also be moved by an electric wire and solenoid, hydraulic system or other means. A guide wire (102) positions the catheter in an artery, fallopian tube or other lumen and an inflatable saline anchor or anchors stabilize the catheter against the obstruction to execute a precise cut.

35) Family number: 8855477 (US6066139A) © PatBase

Title: Apparatus and method for sterilization and embolization

Priority: CA19972204566 19970506 US19960649146 19960514

Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: COVIDIEN AG

Assignee(s):(std)**:** COVIDIEN AG ; VALLEYLAB INC ; SHERWOOD SERV AG

Assignee(s): SHERWOOD SERVICES AG ; TYCO HEALTHCARE GROUP AG ; VALLEYLAB INC BOULDER COL US ; LAMBRECHT GREGORY H ; RYAN THOMAS P

Inventor(s):(std)**:** LAMBRECHT GREGORY H ; LAMBRECHT GREGORY HERBERT ; RYAN THOMAS ; RYAN THOMAS P ; RYAN THOMAS PATRICK

Inventor(s): THOMAS P RYAN ; THOMAS RYAN ; GREGORY H LAMBRECHT

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; MCFADDEN FINCHAM; OSLER HOSKIN AND HARCOURT LLP; SANTARELLI

International class (IPC 8–9): A61B17/42 A61B18/12 A61B18/14 A61F6/20 A61M25/00 A61N7/02 G01N27/10 G01N27/14 (Advanced/Invention); A61B17/42 A61B18/14 A61N7/02 (Advanced/Non–invention); A61B17/42 A61B18/12 A61F6/00 (Core/Invention); A61B18/14 A61N7/00 (Core/Non–invention)

International class (IPC 1–7): A61B17/36 A61B17/39 A61B17/42 A61B18/12 A61F7/00 A61M25/00 A61N7/00 G01N27/10 G01N27/14

CPC: A61B18/1206 A61B18/1492 A61B2017/4216 A61B2018/00559 A61B2018/00702 A61B2018/0075 A61B2018/00797 A61B2018/00875 A61B2018/126 A61F6/20 A61N7/02

European class: A61B18/12G A61F6/20 K61B17/42C K61B18/00F16 K61B18/00H10A K61B18/00H10P K61B18/00H12B1 K61B18/00H12R K61B18/12G8B K61B18/14V K61N7/02

US class: 606/135 606/40 606/41 606/50

Classification Explorer

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Abstract:
Source: US6066139A An apparatus for transcervical sterilization or transcatheter embolization with a controlled bipolar RF catheter for creating thermal lesions in the fallopian tubes or thrombosing vessels has a catheter elongate along an axis thereof with a patient end. The catheter is circular and sized for transcervical insertion into the fallopian tube or transcatheter vessel insertion, respectively. A connector on an end of the catheter opposite the patient end has the terminations for RF and monitoring and is shaped for the surgeon to manipulate during placement and withdrawal. Two or more bipolar electrodes on the patient end are placed so each electrode is spaced from another with each circumscribing the catheter. A mucosa or thrombus sensor responsive to applied RF energy passing between the two or more bipolar electrodes determines the condition of the transmural formation of a lesion or the thrombus between each of the electrodes. The sensor is a temperature sensor positioned in the space between the electrodes measures the change in mucosal layer temperature or the thrombus during the application of RF energy. An RF generator electrically coupled to the electrodes and the sensor is alternately a phase detector in circuit with the coupling determines reactance of tissue as an indicator of lag or lead of the voltage wave form or current wave form delivered or is an impedance responsive circuit positioned in the RF generator to determine voltage and current delivered so a calculator finds impedance delivered for finding initial electrode contact with the tissue and for measuring the change in mucosal layer. The temperature sensor connects to an RF generator with control circuitry regulating delivery to a temperature range. A method for sterilization has the steps of inserting a catheter, delivering RF and monitoring the effect on the mucosa or thrombus, circumscribing the catheter with two or more bipolar electrodes, each of the electrodes spaced from one another and passing RF energy therebetween.

0) US2002010457A – METHOD AND APPARATUS FOR CREATING INTRAUTERINE ...

36) Family number: 28161995 (US2002010457A) © PatBase

Title: Method and apparatus for creating intrauterine adhesions

Priority:

AU20010257212	20010424	AU20060252147	20061220	JP20010577891	20010424
JP20090014806	20010424	US20000199736P	20000425	US20000256529P	20001218
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WO2001US13169	20010424	US20040978176	20041029	US20110251743	20111003

Family:

Publication number	Publication date	Application number	Application date
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Agent(s): CALLINANS; SPRUSON AND FERGUSON; FISHER ADAMS KELLY CALLINANS; SMART AND BIGGAR; INSKEEP INTELLECTUAL PROPERTY GROUP INC; INSKEEP IP GROUP INC

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

International class (IPC 8–9): A61B17/00 A61B17/03 A61B17/04 A61B17/12 A61B17/42 A61B18/18 A61B19/00 A61B6/00 A61F2/00 A61F2/04 A61F2/06 A61F2/82 A61F2/84 A61F6/00 A61F6/06 A61F6/14 A61F6/16 A61F6/18 A61L31/00 A61M29/00 A61M31/00 (Advanced/Invention); A61B10/02 A61B17/06 A61B17/064 A61B17/42 A61B5/107 A61B6/12 A61B8/08 A61F2/00 A61F6/14 (Advanced/Non–invention); A61B17/42 A61B19/00 A61B6/00 A61F2/00 A61F6/00 A61M31/00 (Core/Invention); A61B10/02 (Core/Non–invention)

International class (IPC 1–7): A61B17/42 A61B18/18 A61B19/00 A61B5/05 A61B6/00 A61F2/00 A61F2/04 A61F2/06 A61F6/00 A61F6/06 A61F6/14 A61F6/16 A61F6/18 A61K31/41 A61K31/74 A61M29/00 A61M29/02 A61M31/00

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European class: A61B17/00E A61B17/04A A61B17/12P A61B17/12P5 A61B17/12P7W A61B17/12P7W3 A61B17/12P7Z A61B17/42 A61B19/54 A61F2/00H A61F6/14 A61L31/06 A61M31/00D K61B10/02U K61B17/04A21 K61B17/064 K61B17/064T K61B17/06S4 K61B17/42C K61B17/42M K61B19/54 K61B19/54B2 K61B19/54L K61B19/54V K61B5/107J K61B6/12 K61B8/08H K61F2/00H K61F2/00H6 K61F250/00W5 K61F6/14 K61M31/00D

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Abstract:
Source: US2002010457A An apparatus and method of use or treatment are disclosed for creating intrauterine adhesions resulting in amenorrhea. In particular, the apparatus relates to an easily deployed intrauterine implant that readily and consistently reduces or eliminates abnormal intrauterine bleeding. In addition, the apparatus is also used as a uterine marker device for visualizing endometrial tissue thickness and potential changes. The method of the present invention serves as a supplement to or a replacement for conventional hysterectomy or ablation/resection procedures used to treat menorrhagia.

0) US2005268918A – TUBAL STERILIZATION DEVICE HAVING EXPANDING ELE...

37) Family number: 32395172 (US2005268918A) © PatBase

Title: TUBAL STERILIZATION DEVICE HAVING EXPANDING ELECTRODES AND METHOD FOR PERFORMING STERILIZATION USING THE SAME

Priority: US20040862209 20040607

Family:

Publication number	Publication date	Application number	Application date
US2005268918 AA	20051208	US20040862209	20040607
US6964274 BA	20051115	US20040862209	20040607

Probable Assignee: ETHICON INC

Assignee(s):(std)**:** ETHICON INC ; RYAN THOMAS P ; SIMPSON RODDI ; ZADDEM VINCENZA

Inventor(s):(std)**:** RYAN THOMAS P ; SIMPSON RODDI ; ZADDEM VINCENZA

Inventor(s): RYAN THOMAS

Agent(s): GERALD T BODNER ESQ BODNER AND OROURKE LLP

International class (IPC 8–9)**:** A61F6/06 A61F6/22 (Advanced/Invention); A61B17/12 (Advanced/Non–invention); A61F6/00 (Core/Invention); A61B17/12 (Core/Non–invention)

International class (IPC 1–7)**:** A61F6/06

CPC: A61B17/12022 A61F6/225

European class: A61F6/22B K61B17/12P

US class: 128/830 128/831 128/832 128/898 600/29

Classification Explorer

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Abstract:
Source: US2005268918A A sterilization device which causes occlusion to the fallopian tubes of a patient is designed to be trancervically positioned in the intramural portion of the tube without perforating the tube. The device includes a flexible hollow catheter having an interior passageway, a distal end for insertion trancervically into a patient, and a proximal end opposite the distal end for grasping and manipulation by a physician. The device further includes a pair of diametrically opposed electrodes, each being movably mounted on the distal end of the catheter and radially movable with respect to the distal end. The electrodes are elongated axially and arcuate transversely and are expandable from a closed state, which defines the distal end of the catheter with a reduced diameter for proper transcervical delivery and placement in the fallopian tube of a patient, and an open state, where the electrodes are separated from one another a greater distance than when they are in the closed state, to define the distal end of the catheter with an enlarged diameter. In the expanded state, the diametrically opposed electrodes stretch the tissue of the fallopian tube to reduce blood flow and to help localize heating of the surrounding tissue. The electrodes are provided with RF (radio frequency) energy in their expanded state to heat the tissue of the fallopian tube which they contact. A temperature sensor situated at the distal end of the catheter measures the temperature of the heated tissue. The RF energy provided to the electrodes is controlled to ensure that the tissue is not overheated.

0) US2002192198A – METHOD FOR GROWING HUMAN ORGANS AND SUBORGANS

38) Family number: 28282073 (US2002192198A) © PatBase

Title: METHOD FOR GROWING HUMAN ORGANS AND SUBORGANS

Priority:

AU20030243621	20030617	AU20090200996	20090312	AU20100241201	20101103
US19920877132	19920501	US19930053886	19930427	US20040791648	20040302
US20030626761	20030724	US20010794456	20010227	US20020179589	20020625
US20020268833	20021010	US19980064000	19980421	US19970837608	19970421
US19940326857	19941021	US19930087185	19930702	US20010836750	20010417
WO1998US08039	19980421	US20070810798	20070607	US20070811389	20070608
US20070891456	20070810	US20070986690	20071126	US20070977674	20071025
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Family:

Publication number	Publication date	Application number	Application date
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WO9501760 A3	19950302	WO1994US07472	19940630	
WO9847439 A2	19981029	WO1998US08039	19980421	
WO9847439 A3	19990225	WO1998US08039	19980421	

Probable Assignee: DENTAL MARKETING SPECIALISTS INC AN ARIZONA CORP

Assignee(s):(std)**:** DENTAL MARKETING SPEC ; JERRY W BAINS AND SALEE C BAIN ; JAMES P ELIA ; DENTAL MARKETING SPECIALISTS I ; ELIA JAMES P ; DENTAL MARKETING SPEC INC ; BAINS JERRY W ; DENTAL MARKETING SPECIALISTS INC ; ELLA JAMES P ; JERRY BAINS ; DENTAL MARKETING SPECIALISTS INC AN ARIZONA CORP ; BAINS SALEE C ; JERRY W BAINS RESTATED DEFINED ; JERRY W BAINS AND SALEE C BAINS IRREVOCABLE TRUST ; SALEE BAINS

Assignee(s): SALEE C BAINS IRREVOCABLE TRUST ; JERRY W BAINS AND SALEE C BAINS IRREVOCATBLE TRUST ; JERRY W BAINS RESTATED DEFINED BENEFIT PENSION PLAN ; THE JERRY W BAINS AND SALEE C BAINS IRREVOCABLE TRUST ; THE JERRY W BAINS AND SALEE C BAINS IRREVOCABLE TR ; JERRY W BAINS RESTATED DEFINED BENEFIT PENSION PLA ; BAINS SALEE C IRREVOCABLE TRUST ; DENTAL MARKEYING SPECIALISTS INC AN ARIZONA CORP ; DENTAL MARKETING SPECIALISTS INC (50 PERCENT) ; DENTAL MARKETING SPECIALISTS INC 50 PERCENT ; DENTAL MARKEYING SPECIALISTS INC ; BAINS JERRY W (50 PERCENT) ; BAINS JERRY W 50 PERCENT ; BAINS JERRY W AND BAINS SALEE C IRREVOCABLE TRUST ; BAINS JERRY W AND SALEE C BAINS IRREVOCABLE TRUST ; BAINS LEIGH ANN ; BAINS LEIGH ANNE ; JERRY W BAINS AND SALEE C BAINS IRREVOCABLE TRUS ; JERRY W BAINS AND SALEE C BAINES IRREVOCABLE TRUST ; JERRY W BAINS AND SALEE C BAINS

Inventor(s):(std)**:** ELIA JAMES P ; ELLA JAMES P ; JAMES P ELIA

Inventor(s): ELLA JAMES ; ELIA JAMES

Agent(s): PHILLIPS ORMONDE FITZPATRICK; GERALD K WHITE ESQ GERALD K WHITE AND ASSOCIATES PC; GERALD K; CHARLES N

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 NE NI NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

International class (IPC 8–9): A01N63/00 A61C5/00 A61C8/00 A61C8/02 A61K31/70 A61K35/00 A61K35/12 A61K35/14 A61K35/26 A61K35/28 A61K35/32 A61K35/44 A61K45/00 A61K48/00 A61K49/00 A61P19/02 A61P25/00 A61P3/10 A61P31/18 A61P35/00 A61P37/00 C12N5/071 C12N5/077 (Advanced/Invention); A61C8/00 (Core/Invention)

International class (IPC 1–7): A01N63/00 A61C5/00 A61C8/00 A61K31/70 A61K48/00 A61K6/00 A61K7/28 C12N5/08

CPC: A61K38/00 A61K38/1709 A61K35/17 A61K35/22 A61K35/30 A61K35/545 A61K38/1825 A61K38/1866 A61K38/1875 A61K38/193 A61K38/2013 A61K48/00 A61C8/00 A61C8/0001 A61C8/0006 A61C8/0018 A61C8/0039 A61K35/32 A61K35/44 A61K48/005 A61K48/0058 A61K48/0075 C12N5/0654 C12N5/069 C12N2501/155 C12N2501/48 C12N2501/60

European class: A61C8/00 A61C8/00B A61C8/00C1A A61C8/00F A61C8/00F30B A61K35/14 A61K35/28 A61K35/32 A61K35/44 A61K35/54 A61K35/54A A61K38/18 A61K48/00D A61K48/00D2 A61K48/00F C12N5/06B13B C12N5/06B28 K61C8/00C1A M12N501/155 M12N501/480 M12N501/600

US class: 106/35 106/35S 424/423 424/423S 424/424 424/424P 424/50 424/50P 424/9.1 424/9.100P 424/93.1 424/93.100S 424/93.21 424/93.210P 424/93.210S 424/93.7 424/93.700P 424/93.700S 424/93.73 424/93.730P 433/173 433/173S 433/175 433/201.1 433/215 433/217.1 433/217.100S 435/366 435/366S 514/44 514/44.00RS 514/44R

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Abstract:
Source: US2002192198A Organogenesis methods, including angiogenesis, are disclosed wherein genetic material, such as a growth factor and a physiological nutrient culture are employed in such process. Also included is another aspect of the invention wherein a physiological medium is used in combination with such genetic material to direct and/or control organogenesis.

0) US2003015203A – DEVICE, SYSTEM AND METHOD FOR IMPLANTATION OF F...

39) Family number: 29743645 (US2003015203A) © PatBase

Title: DEVICE, SYSTEM AND METHOD FOR IMPLANTATION OF FILAMENTS AND PARTICLES IN THE BODY

Priority: US19950008259 19951201 US19950008259P 19951201 US19950008259P 19951201 US19960016792 19960507 US20020172788 20020613 US20000587755 20000606 US19960734638 19961021 US19960016792P 19960507 US19960016792P 19960507 WO1996US18995 19961125

Family:

Publication number	Publication date	Application number	Application date
AU199711420 A1	19970619	AU19970011420	19961125
DE69631387 D1	20040226	DE19966031387	19961125
DE69631387 T2	20041111	DE19966031387T	19961125
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JP2000512515 T2	20000926	JP19970520656T	19961125
US2003015203 AA	20030123	US20020172788	20020613
US6090063 A	20000718	US19960734638	19961021
WO9719643 A2	19970605	WO1996US18995	19961125
WO9719643 A3	20010525	WO1996US18995	19961125

Probable Assignee: ENDOMATRIX INC

Assignee(s):(std): BANKS THOMAS F ; BARD INC C R ; ENDOMATRIX INC ; MAKOWER JOSHUA ; VIDAL CLAUDE ; REDMOND RUSSELL J

Assignee(s): C R BARD INC

Inventor(s):(std): BANKS F ; BANKS THOMAS F ; MAKOWER JOSHUA ; REDMOND J ; REDMOND RUSSELL J ; VIDAL CLAUDE ; THOMAS F BANKS ; RUSSELL J REDMOND ; JOSHUA MAKOWER ; CLAUDE VIDAL

Designated states: AL AM AT AU AZ BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IL IS IT JP KE KG KP KR KZ LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SN SZ TD TG TJ TM TR TT UA UG UZ VN

International class (IPC 8–9): A61B17/00 A61B17/04 A61B17/12 A61B19/00 A61F2/82 (Advanced/Invention); A61B17/04 A61B19/00 A61F2/82 (Advanced/Non–invention)

International class (IPC 1–7): A61B17/00 A61B17/12 A61F13/20 A61F6/06 A61M29/00

CPC: A61B90/39 A61B17/12131 A61B17/0469 A61B17/12022 A61B17/12099 A61B17/12109 A61B17/12113 A61B17/12145 A61B17/12181 A61B17/12186 A61B2017/00349 A61B2017/00526

European class: A61B17/12P A61B17/12P5 A61B17/12P5B A61B17/12P5B1 A61B17/12P7 A61B17/12P7C1 A61B17/12P7Z A61B17/12P7Z1 K61B17/00E5 K61B17/00M K61B17/04E K61B19/54

US class: 128/831 128/832 128/832S 128/843 128/843S 600/300 600/300S 604/13 604/13S 604/15 604/500 604/500S 606/138 606/138S 606/144 606/144S 606/148 606/148S 606/227 606/227S 623/1.11 623/1.110S 623/1.3 623/1.300S 623/13

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Cited documents: WO9604954 A1, WO9426175 A1, WO9320876 A1, WO9006725 A1, US654564 A, US5904648 A, US5514085 A, US5389100 A, US5382260 A, US5374261 A, US5364410 A, US5350385 A, US5346498 A, US5342394 A, US5338301 A, US5330527 A, US5304194 A, US5282829 A, US5281236 A, US5263927 A, US5167624 A, US5133731 A, US5121901 A, US5108407 A, US5074840 A, US5030232 A, US4935027 A, US4907590 A, US4841968 A, US4820267 A, US4512800 A, US4495393 A, US4383532 A, US4347234 A, US4291013 A, US4258067 A, US4197846 A, US4084264 A, US4005699 A, US3998230 A, US3995619 A, US3991766 A, US3713572 A, US3699969

A, US3638653 A, US3589355 A, US3476114 A, US3467102 A, US3119398 A, US3062214 A, US3013559 A, US2625934 A, US1951545 A, US1456828 A, US1061005 A, GB1506142 A, FR2050875 A5, EP0677297 A1, EP0669103 A1, EP0541258 A1, EP0050606 A1, DE9214580 U, DE9105004 U, DE4240533 C1,

Forward Citations: WO9955239, WO9953846, WO9917663, WO9913781, WO14160320, WO14058992, WO13022736, WO10090705, WO09144995, WO06098816, WO05110297, WO05110297, WO04045480, WO04045480, WO03047424, WO03047424, WO0162165, WO0059422, WO0032253, WO0032112, WO0025680, USRE42834, US9636254, US9610195, US9592154, US9585790, US9566179, US9554826, US9545257, US9517072, US9492151, US9463041, US9463029, US9457133, US9456829, US9421115, US9402762, US9393153, US9364356, US9351741, US9351735, US9345491, US9339404, US9333070, US9326891, US9326876, US9320618, US9320515, US9314253, US9308023, US9307995, US9283116, US9277905, US9271869, US9254210, US9247952, US9238127, US9226745, US9220880, US9198784, US9192516, US9173768, US9125723, US9125682, US9119739, US9113994, US9101503, US9101386, US9095413, US9095411, US9089626, US9078779, US9060773, US9050183, US9034053, US9017361, US9017350, US8992570, US8986362, US8980297, US8979917, US8974511, US8974487, US8968353, US8968177, US8956398, US8886292, US8882654, US8845639, US8845637, US8828071, US8821562, US8808347, US8808346, US8801626, US8795347, US8769796, US8753258, US8744554, US8740968, US8733361, US8733360, US8726906, US8721621, US8707958, US8707957, US8702781, US8696688, US8695606, US8695605, US8677650, US8663303, US8663228, US8652198, US8652138, US8647346, US8617163, US8613745, US8613698, US8613282, US8608639, US8591598, US8585747, US8585720, US8585704, US8579902, US8574282, US8568416, US8562628, US8551097, US8500789, US8486132, US8480691, US8465516, US8460358, US8439942, US8409111, US8398641, US8394102, US8388643, US8356599, US8336552, US8333786, US8333201, US8327852, US8324193, US8317859, US8317823, US8316854, US8316853, US8287463, US8282680, US8262695, US8257427, US8256424, US8235986, US8235048, US8235047, US8226730, US8211123, US8177831, US8177738, US8177707, US8177706, US8171936, US8170648, US8157851, US8147536, US8147510, US8142487, US8131346, US8113205, US8084663, US8083788, US8080048, US8070789, US8066007, US8062344, US8052669, US8048170, US8048101, US8048086, US8047980, US8016871, US8016870, US8011370, US8003157, US7998202, US7998201, US7992571, US7972354, US7972295, US7938852, US7938851, US7935141, US7922755, US7921848, US7918881, US7918867, US7905913, US7892274, US7892273, US7892163, US7857825, US7846085, US7828807, US7815661, US7790945, US7771347, US7717892, US7713552, US7711405, US7708752, US7704203, US7691152, US7686020, US7666194, US7641688, US7585271, US7553324, US7402168, US7398780, US7381180, US7364591, US7357812, US7351255, US7326236, US7326225, US7320702, US7318801, US7316645, US7309350, US7300456, US7294146, US7270668, US7249601, US7244270, US7244267, US7241308, US7182779, US7147656, US7147655, US7137993, US7056277, US7044979, US6976990, US6802868, US6695764, US6629947, US6595910, US6595909, US6589199, US6575896, US6540789, US6533717, US6530878, US6440098, US6375634, US6358197, US6299590, US6296632, US6251064, US6251063, US6248058, US6238335, US6234955, US6231573, US6139520, US6053899, US2014277097, US2014276388, US2013299191, US2012143206, US2012123440, US2011224709, US2011218488, US2011202036, US2011190772, US2011172695, US2011160731, US2011152604, US2011118745, US2011112539, US2011106104, US2011060314, US2011046658, US2011046613, US2011030696, US2011028903, US2011004207, US2010331900, US2010256778, US2010218359, US2010168514, US2010160945, US2010160898, US2010121249, US2010100104, US2010086492, US2009275971, US2009264860, US2009159088, US2009118726, US2009093802, US2008307668, US2008275569, US2008178891, US2008135054, US2008033230, US2008009666, US2008009664, US2008009663, US2007248640, US2007244439, US2007227544, US2007219617, US2007213671, US2007179510, US2007093858, US2007088368, US2007060999, US2007044808, US2007021764, US2007021763, US2007005088, US2006293700, US2006282159, US2006282158, US2006229669, US2006212127, US2006212055, US2006200223, US2006190076, US2006161199, US2006111629, US2006058891, US2006058735, US2005288551, US2005245810, US2005222495, US2005209633, US2005192616, US2005149159, US2005096751, US2005096497, US2005070922, US2005065484, US2005049673, US2005010276, US2004249435, US2004215331, US2004167482, US2004127918, US2004122312, US2004106587, US2004093061, US2003181926, US2003135258, US2003130683, US2003120287, US2003114863, US2003029457, US2001041900, JP2011519300, GB2526864, FR2785172, EP2559388, EP1518502, EP1396232, EP1219246, EP1168976, EP1124489, EP1051116, EP1018949, EP0951870, EP0935947, AU734010, AU2014243881, AU2003264582, AU2002359606,

Abstract:
Source: US2003015203A A method of introducing continuous lengths of filament into the body in surgical procedures in which it is desirable to place a significant amount of material into the body through a small portal. The material so introduced may serve to bulk a tissue or cavity of the body or to occlude a vas, as well as to introduce diagnostic or therapeutic agents into a site in the body. A device for implementing the method has a mechanism for feeding the filament through a conduit in such a manner that sufficient force is applied to the filament that it is forced into the desired site. In one embodiment, a system of reciprocating cannulae and synchronized grippers is used to supply the requisite force to the filament.

0) US2005273094A – TUBAL STERILIZATION DEVICE HAVING SESQUIPOLAR E...

40) Family number: 32477407 (US2005273094A) © PatBase

Title: TUBAL STERILIZATION DEVICE HAVING SESQUIPOLAR ELECTRODES AND METHOD FOR PERFORMING STERILIZATION USING THE SAME

Priority: US20040862210 20040607

Family:

Publication number	Publication date	Application number	Application date
US2005273094 AA	20051208	US20040862210	20040607
US7250050 BB	20070731	US20040862210	20040607

Probable Assignee: ETHICON INC

Assignee(s):(std)**:** ETHICON INC ; RYAN THOMAS P

Inventor(s):(std)**:** RYAN THOMAS P

Inventor(s): RYAN THOMAS

Agent(s): GERALD TBODNER ESQ BODNER AND OROURKE LLP

International class (IPC 8–9)**:** A61B18/14 A61B18/18 (Advanced/Invention); A61B17/42 (Advanced/Non–invention); A61B18/14 (Core/Invention); A61B17/42 (Core/Non–invention)

International class (IPC 1–7)**:** A61B18/14

CPC: A61B18/1492 A61B2017/4233 A61B2018/00559

European class: A61B18/14V K61B17/42F K61B18/00F16

US class: 606/41 606/41P 606/50 606/50S

Classification Explorer

Cited documents: US6837888 BB, US6706039 BB, US6488678 BB, US6485466 BB, US6432116 BA, US6378524 BA, US6352549 BA, US6346102 BA, US6077261 A, US6066139 A, US6066095 A, US6001095 A, US5556396 A, US5507743 A, US5403311 A, US5383876 A, US5122137 A, US5098431 A, US4823791 A, US2005043728 AA, US2002148476 AA, US2002100480 AA, US2002020417 AA,

Forward Citations: US9402560, US9364277, US9204921, US7731712, US2012089123, US2006135956, EP2063800,

Abstract:
Source: US2005273094A A tubal sterilization device having sesquipolar electrodes includes a hollow catheter defining an interior passageway, the catheter including a first end for insertion transcervically into a patient, and a second end opposite the first end for grasping and manipulation by a physician. The device further includes an electrode tip situated at the first end of the catheter. The electrode tip includes a first portion having a first electrode, the first portion being preferably formed generally conically in shape so that it may be snugly fit into the tubal osteum of the fallopian tube. The electrode tip further includes a second portion having a second electrode which is a coil formed from a wire which is helically wrapped about an insulating spacer or support. The second portion of the electrode tip with the second electrode may be retracted within a bore formed axially within the first portion of the electrode tip and may selectively extended therefrom for placement within the intramural segment of the fallopian tube. A slider linkage within the hollow catheter moves the second portion and second electrode between its retracted position and extended position. Bipolar RF (radio frequency) energy is provided to the first and second electrodes to cause the selective heating of tissue within the intramural segment of the fallopian tube.

0) WO16142690A1 – INLET INSTRUMENTATION FOR ION ANALYSER COUPLED ...

41) Family number: 59227861 (WO16142690A1) © PatBase

Title: INLET INSTRUMENTATION FOR ION ANALYSER COUPLED TO RAPID EVAPORATIVE IONISATION MASS SPECTROMETRY ("REIMS") DEVICE

Priority: GB20150003863 20150306 GB20150003864 20150306 GB20150003876 20150306 GB20150003877 20150306 GB20150003867 20150306 GB20150003878 20150306 GB20150016003 20150909 GB20150018369 20151016 GB20150003879 20150306

Family:

Publication number	Publication date	Application number	Application date
GB201503876 A0	20150422	GB20150003876	20150306
WO16142669 A1	20160915	WO2016GB50597	20160307
WO16142674 A1	20160915	WO2016GB50603	20160307
WO16142675 A1	20160915	WO2016GB50604	20160307
WO16142679 A1	20160915	WO2016GB50608	20160307
WO16142681 A1	20160915	WO2016GB50610	20160307
WO16142683 A1	20160915	WO2016GB50612	20160307
WO16142685 A1	20160915	WO2016GB50614	20160307
WO16142686 A1	20160915	WO2016GB50615	20160307
WO16142689 A1	20160915	WO2016GB50619	20160307
WO16142690 A1	20160915	WO2016GB50620	20160307

Probable Assignee: MICROMASS LTD

Assignee(s):(std)**:** MICROMASS LTD

Assignee(s): MICROMASS UK LTD

Inventor(s):(std)**:** BALOG JULIA ; BOLT FRANCES ; CHUA ALVIN ; GOEDOERHAZY LAJOS ; HENDERSON MATT ; HESS ANTHONY ; JONES EMRYS ; KARANCSI TAMAS ; LANGRIDGE JAMES IAN ; MORRIS MICHAEL RAYMOND ; O BRIEN STEPHEN ; PRINGLE STEVEN DEREK ; RICHARDSON KEITH ; SIMON DANIEL ; SZALAY DANIEL ; TAKATS ZOLTAN ; TRIVETT IAN

Agent(s): JEFFREY PHILIP MICHAEL; CHIVA ANDREW PETER

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 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

International class (IPC 8–9): A61B10/02 A61B17/00 A61B18/00 A61B18/14 G01N27/62 G01N3/00 G01N33/02 G01N33/48 G01N33/68 G01N33/92 G01N9/00 H01J49/00 H01J49/04 H01J49/06 H01J49/16 (Advanced/Invention)

CPC: G01N33/6848 A61B17/00 A61B18/00 A61B18/14 A61B2218/008 G01N3/00 G01N9/00 G01N33/92 H01J49/0036 H01J49/0404 H01J49/0459 H01J49/049 H01J49/068 H01J49/16 A61B10/0041 A61B10/0233 A61B10/0283 A61B17/320068 A61B18/20

Classification Explorer

Cited documents: WO9734534 A1, WO14142926 A1, WO14128629 A1, WO13148162 A1, WO13098645 A2, WO13098642 A2, WO12174437 A1, WO12143737 A1, WO10136887 A1, US2014353488 AA, US2012156712 AA, US2010101304 AA, GB2491486 A1, CA2882003 AA,

Abstract:
An apparatus is disclosed comprising a first device (1) for generating aerosol, smoke or vapour (5) from one or more regions of a target, an inlet conduit to an ion analyser or mass spectrometer,the inlet conduit having an inlet through which the aerosol, smoke or vapour (5) passes, and a Venturi pump arrangement arranged and adapted to direct the aerosol, smoke or vapour5towards the inlet.

0) US2014323859A – DEVICE AND PROCESS TO CONFIRM OCCLUSION OF THE ...

42) Family number: 53737276 (US2014323859A) © PatBase

Title: DEVICE AND PROCESS TO CONFIRM OCCLUSION OF THE FALLOPIAN TUBE

Priority: US20110559120P 20111113 US20120357875 20121113 WO2012US64834 20121113

Family:

Publication number	Publication date	Application number	Application date
US2014323859 AA	20141030	US20120357875	20121113
WO13071293 A1	20130516	WO2012US64834	20121113

Probable Assignee: NVISION MEDICAL CORP

Assignee(s):(std)**:** NVISION MEDICAL CORP

Inventor(s):(std)**:** SARNA SURBHI ; SARNA SURBI

Agent(s): GOLDSTEIN AVERY N

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 IS IT JP KE KG KM KN KP KR KZ LA LC 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 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

International class (IPC 8–9)**:** A61B5/00 A61B8/12 A61F2/02 A61F2/04 A61L27/04 A61L27/14 (Advanced/Invention)

CPC: A61B2017/4233 A61B1/303 A61B5/4325 A61B8/12 A61B5/0073 A61B5/0084 A61L27/14 A61B2090/3614 A61B2090/3735 A61B2090/3782

US class: 600/407 600/425 600/463 600/478

Classification Explorer

Cited documents: US6514249 BA, US6401719 BA, US5147353 A, US2011137150 AA, US2011087109 AA, US2009318816 AA, US2009318746 AA, US2009105597 AA, US2009088648 AA, US2008245371 AA, US2008139923 AA, US2008009732 AA, US2007179380 AA, US2007167804 AA, US2007161905 AA, US2005045183 AA,

Forward Citations: US9486143, US2014180135,

Abstract:
Source: US2014323859A A device is provided to confirm intratubal occlusion in a subject of a fallopian tube having an inner diameter that includes a tubular shaft having a distal end and an interior lumen. An examination head is joined to the distal end of the shaft. A visualization modality in the examination head provides visual or acoustic imaging of the fallopian tube. A power source for the visualization modality is provided. A handle is provided for control of the device. An ex vivo imager of an ocular, video headgear, or a video display is provided in communication with the visualization modality. A process for evaluating an intratubal implant in a fallopian tube through optical or sonic wave visualization is also provided.

0) US4085743A – MULTIPLE OCCLUSION RING APPLICATOR AND METHOD

43) Family number: 6785326 (US4085743A) © PatBase

Title: Multiple occlusion ring applicator and method

Priority: US19760663103 19760302

Family:

Publication number	Publication date	Application number	Application date
US4085743 A	19780425	US19760663103	19760302

Probable Assignee: YOON IN BAE

Assignee(s):(std)**:** YOON IN BAE

Inventor(s):(std)**:** YOON IN BAE

International class (IPC 8–9)**:** A61F6/20 (Advanced/Invention); A61F6/00 (Core/Invention)

International class (IPC 1–7)**:** A61B1/06 A61B17/12

CPC: A61F6/202

European class: A61F6/20B

US class: 128/6 606/140 606/206

Classification Explorer

Cited documents: US3934589 A, US3911923 A, US3870048 A, US3834392 A,

Forward Citations: WO9846148, WO9006089, USRE36629, USD587806, US9572623, US9545290, US9427255, US9375268, US9314620, US9277957, US9254169, US9233241, US9226772, US9220526, US9192459, US9101443, US9078662, US9060797, US9049987, US9028483, US9023053, US9011431, US9005198, US8986199, US8939897, US8888792, US8870883, US8858557, US8845699, US8845687, US8845684, US8840629, US8834490, US8834486, US8814902, US8808329, US8784495, US8771260, US8764768, US8747439, US8740937, US8733361, US8733360, US8690899, US8679003, US8647368, US8641726, US8632552, US8623030, US8613282, US8608652, US8579897, US8568410, US8551139, US8551100, US8529563, US8518047, US8506564, US8496574, US8480689, US8480657, US8449538, US8425522, US8425505, US8409200, US8403926, US8361112, US8361066, US8356599, US8353487, US8337394, US8327852, US8262680, US8262655, US8262563, US8252057, US8241204, US8211125, US8171936, US8133229, US8123758, US8070752, US8066007, US7959635, US7931690, US7921848, US7892236, US7887542, US7837736, US7837690, US7828852, US7806897, US7806896, US7789885, US7780672, US7749229, US7708741, US7708740, US7704253, US7695520, US7695479, US7686020, US7635390, US7615054, US7510557, US7488324, US7428904, US7104996, US6770078, US6702821, US6547798, US6210416, US6206904, US6193729, US6051003, US5984939, US5972002, US5968056, US5961526, US5957936, US5947978, US5921993, US5908429, US5846235, US5843121, US5797958, US5797939, US5716367, US5697940, US5683412, US5665100, US5645551, US5618308, US5507774, US5445167, US5383881, US5382255, US5382254, US5338317, US5336238, US5334209, US5300081, US5258005, US5226908, US5224497, US5217473, US5217030, US5192299, US5100419, US5026379, US4994079, US4990152, US4696544, US4655219, US4548201, US4503843, US4493319, US4471766, US4257420, US4257419, US4249533, US4230116, US2013138145, US2011223328, US2011196390, US2011152923, US2011152609, US2011030696, US2010198224, US2010160914, US2010057108, US2010057101, US2010049190, US2009227828, US2009112062, US2008300629, US2008147075, US2007282451, US2007208349, US2007144528, US2007062542, US2007044808, US2007023534, US2007000496, US2006144406, US2005172972, US2004211429, US2004206358, US2004200483, US2004163651, US2004159324, US2004127918, US2004079377, US2003216752, US2002029045, EP1952770,

Abstract:
Source: US4085743A A multiple occlusion ring applicator device and method for applying elastic occluding rings to an anatomical tubular structure which comprises an inner cylinder, an intermediate cylinder and an outer cylinder, said cylinders being slidably disposed with respect to each other, and forceps means slidably disposed within said inner cylinder, said inner cylinder, said intermediate cylinder, said outer cylinder and said forceps

means cooperating to effect the application of multiple elastic occluding rings to the tubular structures without the necessity of removing the instrument from the patient's body for reloading purposes.

0) US2002183244A – VASCULAR COATING COMPOSITION

44) Family number: 28309083 (US2002183244A) © PatBase

Title: VASCULAR COATING COMPOSITION

Priority: US19990153950P 19990915 US20000662459 20000915 US20020067331 20020207 WO2000US25310 20000915

Family:

Publication number	Publication date	Application number	Application date
AT446776 E	20091115	AT20000961923T	20000915
AU200073811 A5	20010417	AU20000073811D	20000915
AU769136 B2	20040115	AU20000073811	20000915
CA2385150 AA	20020308	CA20002385150	20000915
CA2385150 C	20101123	CA20002385150	20000915
DE60043229 D1	20091210	DE20006043229	20000915
EP1214057 A1	20020619	EP20000961923	20000915
EP1214057 A4	20060329	EP20000961923	20000915
EP1214057 B1	20091028	EP20000961923	20000915
HK1047404 A1	20100520	HK20020109028	20021212
JP2003509362 T2	20030311	JP20010522982T	20000915
NO20021281 A	20020326	NO20020001281	20020314
NO20021281 A0	20020314	NO20020001281	20020314
US2002183244 AA	20021205	US20020067331	20020207
US6372229 BA	20020416	US20000662459	20000915
US6849262 BB	20050201	US20020067331	20020207
WO0119347 A1	20010322	WO2000US25310	20000915

Probable Assignee: CRYOLIFE INC

Assignee(s):(std)**:** CRYOLIFE INC

Assignee(s): GENERAL ELECTRIC CAPITAL AGENT AS CORP ; GENERAL ELECTRIC CAPITAL CORP ; HEALTHCARE FINANCIAL SOLUTIONS LLC AGENT AS ; HEALTHCARE FINANCIAL SOLUTIONS LLC SUCCESSOR AGENT AS ; OLLERENSHAW JEREMY ; WELLS FARGO FOOTHILL INC ; YUKSEL UMIT ; BLACK KIRBY S

Inventor(s):(std)**:** BLACK KIRBY ; BLACK KIRBY S ; JEREMY OLLERENSHAW ; KIRBY S BLACK ; OLLERENSHAW JEREMY ; UMIT YUKSEL ; YUEKSEL UEMIT ; YUKSEL UMIT

Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD; OGILVY RENAULT LLP SENCRL SRL; WALTON SEAN MALCOLM; MASUI CHUJI; TOMITA HIROYUKI; SHAMOTO ICHIO; EJIRI HIROKO; KOBAYASHI YASUSHI; CHIBA AKIO; NIXON AND VANDERHYE PC

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM EE ES FI FR GA GB GD GE GH GM GN 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 NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

International class (IPC 8–9): A61K31/11 A61K38/00 A61K45/00 A61K9/14 A61L27/34 A61L27/36 A61L31/00 A61L31/10 A61L31/16 A61P9/14 C08L89/00 C12N11/14 (Advanced/Invention); A61K31/11 A61K38/00 A61K45/00 (Advanced/Non–invention); A61K A61L C08L C12N (Subclass/Invention)

International class (IPC 1–7): A61K2/00 A61K2/06 A61K31/11 A61K35/34 A61K38/00 A61K38/38 A61K38/42 A61K45/00 A61K9/00 A61K9/14 A61P9/14 C08L89/00 C12N11/14

CPC: Y10S623/92 Y10S623/921 A61L31/10 A61L27/34 A61L27/3625 A61L27/3683 A61L31/005

European class: A61L27/34 A61L27/36B10 A61L27/36H A61L31/00F A61L31/10

US class: 424/400 424/400P 424/423 424/569 514/12 514/13.3 514/13.300S 514/13.5 514/13.500S 514/14.9 514/14.900S 514/15.2 514/15.200S 514/20.8 514/20.800S 514/6 623/1.42

623/1.46 623/920 623/921

Classification Explorer

Cited documents: WO9509659 A1, US6372229 BA, US5914345 A, US5900245 A, US5830504 A, US5800538 A, US5385606 A, US5213580 A, US4979959 A, US4247406 A,

Forward Citations: WO09073668, WO08036763, WO08036763, USRE46209, US9474533, US9440000, US9402971, US9402633, US9402632, US9192403, US9173669, US9155815, US9125639, US9119896, US9101536, US8932310, US8888800, US8784790, US8740921, US8721734, US8691288, US8673335, US8668707, US8632605, US8586671, US8431537, US8349348, US8282660, US8198363, US8157837, US8157823, US8142455, US8088095, US7993675, US7976873, US7959943, US7932225, US7871639, US7775968, US7766938, US7766891, US7678767, US7670282, US7608579, US7553810, US7549984, US7468350, US7303757, US6849262, US2011093006, US2011077216, US2010305715, US2010297218, US2010144590, US2010087851, US2010029913, US2009143500, US2009076622, US2009011043, US2008195037, US2008096977, US2007264353, US2007264342, US2007264310, US2007221230, US2007110788, US2007014830, US2006167416, US2006025815, US2006009801, US2006009748, US2006004400, US2005288702, US2005288684, US2005288550, US2005288549, US2005281802, US2005281801, US2005281800, US2005281799, US2005281798, US2005281797, US2005281740, US2005281739, US2005073131, US2004081676, US2004018228, US2002183244,

Abstract:
Source: US2002183244A This invention relates to methods of coating the lumenal surface of a blood vessel, or other tissue cavity, and to compositions suitable for use in same.

0) US5368603A – ENDARTERECTOMY CATHETER, AND METHOD OF USE THER...

45) Family number: 13254548 (US5368603A) © PatBase

Title: ENDARTERECTOMY CATHETER, AND METHOD OF USE THEREOF

Priority: CA19912043737 19910603 EP19920307047 19920803 US19900533402 19900605 US19960716698 19960920 US19940285412 19940813 US19930096384 19930726

Family:

Publication number	Publication date	Application number	Application date
CA2043737 AA	19911206	CA19912043737	19910603
CA2043737 C	19990427	CA19912043737	19910603
EP0582005 A1	19940209	EP19920307047	19920803
US5368603 A	19941129	US19900533402	19900605
US5674232 A	19971007	US19960716698	19960920

Probable Assignee: GADALLAH ENTERPRISES LTD

Assignee(s):(std)**:** GADALLAH ENTERPRISES LTD ; HEC MEDICAL ARTS LTD

Assignee(s): HEC MEDICAL ARTS LTD AN ALBERTA CORP ; GADALLAH ENTERPRISES LTD 2ND FLOOR 15623 112 AVE E ; GADALLAH ENTERPRISES LTD 2ND FLOOR 15623 112 AVE EDMONTON ALBERTA CANADA T5M 2V8 AN ALBERTA CORP ; HALLIBURTON ALEXANDER G ; HALLIBURTON ALEXANDER GEORGE

Inventor(s):(std)**:** HALLIBURTON ALEXANDER G ; HALLIBURTON ALEXANDER GEORGE

Designated states: AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

International class (IPC 8–9)**:** A61B17/22 A61B17/32 (Advanced/Invention); A61B19/00 A61F2/02 A61M29/02 (Advanced/Non–invention); A61B17/22 (Core/Invention); A61B19/00 A61F2/02 A61M29/02 (Core/Non–invention)

International class (IPC 1–7)**:** A61B17/22 A61B17/32 A61M25/00

CPC: A61B2090/3933 A61B17/320783 A61B2017/22038 A61F2250/0003 A61M2025/1097

European class: A61B17/3207S

US class: 604/22 606/159 606/17 606/170

Classification Explorer

Cited documents: WO9214413 A1, WO9112847 A1, WO9002523 A1, WO8905611 A1, US5242460 A, US5172702 A, US5085662 A, US4994067 A, US4819635 A, US4781186 A, US4771774 A, US4669469 A, US4616648 A, US4445509 A, US3606878 A, US3590808 A, US3561429 A, US3401684 A, US3289669 A, US3173414 A, SU240923 T, GB2022421 A1, GB1116465 A, FR1161400 A, EP0582005 A1, EP0352872 A2, EP0291170 A1, DE3035416 A1, DE2622850 A1, DE2453058 A1, DE1766252 A1, DE1089924 B,

Forward Citations: WO9923957, WO9428803, WO09132218, WO07014330, WO06113494, WO0249690, US9642646, US9622882, US9622706, US9615850, US9612105, US9596993, US9592075, US9579157, US9572492, US9557156, US9532844, US9532799, US9526634, US9498600, US9498247, US9486237, US9486143, US9478940, US9445834, US9383263, US9367965, US9360630, US9345510, US9345406, US9345398, US9326789, US9324141, US9307926, US9301687, US9292918, US9286673, US9241733, US9220530, US9192406, US9125562, US9119662, US9028512, US9017294, US8998937, US8992717, US8961546, US8920450, US8911459, US8808199, US8808186, US8790276, US8784440, US8784333, US8696695, US8644913, US8597315, US8591435, US8574249, US8548571, US8496677, US8469979, US8435218, US8414604, US8414543, US8361097, US8328829, US8246640, US8226674, US8226673, US8192452, US8062316, US8052704, US7989207, US7981129, US7981050, US7951161, US7927784, US7918803, US7909801, US7887556, US7833239, US7806834, US7794413, US7794411, US7793814, US7771444, US7758599, US7713279, US7708749, US7699790, US7670299, US7648466, US7645261, US7534249, US7507246, US7367982, US7267660, US7226424, US7172590, US7037316, US6936056, US6905505, US6872204, US6843797, US6830577, US6818002, US6758851, US6682542, US6652546, US6638233, US6623496, US6602264, US6569147, US6524323, US6447525, US6299622, US6296651, US6165136, US6090118,

US6080170, US6066152, US6029671, US6027514, US6022363, US5997558, US5938672, US5879361, US5782824, US5779721, US5674232, US5662603, US5591159, US5571130, US5542944, US2011236902, US2010125253, US2009292276, US2009187203, US2008097500, US2007265647, US2006206125, US2005272972, US2005222663, US2005187537, US2005096723, US2004220604, US2004210239, US2004097995, US2004083596, US2004002706, US2003114869, US2003100911, US2003093062, US2003028206, US2003018346, US2002138088, JP2007236947, EP2862526, EP2481365, EP2481364, EP2353526, EP1832235, EP1197180,

Abstract:
Source: US5368603A An endarterectomy catheter for removing obstructions from an artery comprises a cylindrical housing, the housing having an opening across which a primary shear is movable. The primary shear is razor sharp and cylindrical and movable by means of a cable and trigger backward and forward within the housing to excise obstructions that protrude into the opening. A guide wire positions the catheter in an artery. The edge of the housing at the opening may be sharp to grip the obstruction and to assist in the cutting action of the primary shear. The shear is hollow and collects debris from the excised obstruction. Openings in the housing allow blood to pass through the body. A method of removing obstructions from an artery includes locating a housing in an artery with an obstruction protruding into an opening in the housing, moving a razor sharp cylindrical shear across the opening to excise the obstruction, encapsulating the excised obstruction in the housing, and removing the housing from the artery.

0) US3687129A – CONTRACEPTIVE DEVICE AND METHOD OF EMPLOYING SA...

46) Family number: 1019715 (US3687129A) © PatBase

Title: CONTRACEPTIVE DEVICE AND METHOD OF EMPLOYING SAME

Priority: US19700077434 19701002

Family:

Publication number	Publication date	Application number	Application date
US3687129 A	19720829	US19700077434	19701002

Probable Assignee: KOCH MEMBRANE SYSTEMS INC

Assignee(s):(std)**:** ABCOR INC

Assignee(s): KOCH MEMBRANE SYSTEMS INC

Inventor(s):(std)**:** NUWAYSER ELIE S

Inventor(s): ELIE S NUWAYSER

International class (IPC 8–9): A61F6/22 (Advanced/Invention); A61F6/00 (Core/Invention)

International class (IPC 1–7): A61B19/00

CPC: A61F6/22

European class: A61F6/22

US class: 128/127 128/1R 128/831 128/843 128/887 606/191 606/200

Classification Explorer

Cited documents: US3613661 A, US3598126 A, US3589355 A, US3042021 A, GB591509 A,

Forward Citations: WO9632911, WO9409705, WO10005897, WO10005897, WO06018465, WO05000161, WO05000161, WO0241933, WO0241933, WO0013624, US9597224, US9554826, US9510088, US9492311, US9402762, US9308023, US9238127, US9220880, US9180039, US9034053, US9017361, US9017350, US9016280, US8968353, US8733361, US8733360, US8726906, US8707958, US8707957, US8695606, US8695604, US8662081, US8613282, US8584679, US8562628, US8381733, US8356599, US8336552, US8333786, US8333201, US8327852, US8324193, US8316854, US8316853, US8262695, US8235047, US8181653, US8171936, US8161973, US8113205, US8079364, US8066007, US8052669, US8052613, US8048101, US8048086, US8011370, US7972354, US7934504, US7921848, US7694683, US7686020, US7669601, US7621276, US7591268, US7506650, US7428904, US7237552, US7073504, US6763833, US6709667, US6705323, US6684884, US6679266, US6634361, US6613076, US6526979, US6513528, US6432116, US6357443, US6187027, US6176240, US6145505, US6143007, US6096052, US5979446, US5976162, US5935137, US5792154, US5702413, US5573547, US5522822, US5471997, US5382259, US4834091, US4682592, US4365621, US4301814, US4230096, US4052754, US4006756, US3961631, US3939821, US3938528, US3938499, US3877461, US3848578, US3815577, US2010168514, US2010006105, US2009277463, US2009178682, US2009069827, US2008302369, US2008178889, US2008135054, US2008047563, US2007244439, US2007227544, US2007062542, US2007023534, US2007000496, US2006229668, US2006144406, US2006009798, US2005288551, US2005232961, US2005217680, US2005209633, US2005192616, US2005187561, US2005085844, US2005061329, US2005045183, US2005028824, US2004206358, US2004163651, US2004163650, US2004159324, US2004079377, US2003233116, US2003029457, KR20160016418, KR101606848, JP58192541, JP2007521081, ES2249156, EP1143889, EP0618783, EP0091827, AU769576, AU699767, AU680793, AU2004251783,

Abstract:
Source: US3687129A A male contraceptive device which comprises a plug having a coating of fabric on its outer walls. The plug is inserted in the vas deferens. The fabric coating allows for the ingrowth of cells from the wall of the vas deferens into the fabric. This provides for complete occlusion of the vas deferens to prevent passage of the sperm therethrough.

0) DE3343248A1 – IMPLANT AS SUBSTITUTE FOR A FALLOPIAN TUBE WHOS...

47) Family number: 3661112 (DE3343248A1) © PatBase

Title: Implant as substitute for a fallopian tube whose function is disturbed

Priority: DE19833343248 19831130

Family:

Publication number	Publication date	Application number	Application date
DE3343248 A1	19850605	DE19833343248	19831130

Probable Assignee: SAYME MOHAMED NAIM DR MED

Assignee(s):(std)**:** SAYME MOHAMED NAIM DR MED

Inventor(s):(std)**:** SAYME MOHAMED NAIM DR MED

Inventor(s): NAIM DR MED SAYME MOHAMED

International class (IPC 8–9): A61B17/435 A61F2/02 (Advanced/Invention); A61B17/42 A61F2/02 (Core/Invention)

International class (IPC 1–7): A61F1/00

CPC: A61B17/435 A61F2/02

European class: A61B17/435 A61F2/02

Classification Explorer

Forward Citations: US4713074, FR2583285, CN102551917,

Abstract:
Source: DE3343248A1 The implant is a hollow body 1 subdivided into a capsule 3 and a tubular outlet 2 which serves as substitute for a fallopian tube whose function is disturbed. The capsule 3 has a passage opening 6 through which the ovary 4 belonging to the disturbed fallopian tube is inserted in the interior of the capsule. Inside the capsule it is retained by a suitable mounting. The passage opening 6 is sealed except for a passage for the supply thread 5 connected to this ovary after insertion of the ovary 4. In the region of the inlet opening 15 of the fallopian tube whose function is disturbed the tubular outlet 2 is connected to the interior of the uterus 20. In the inserted state, the capsule 3 catches the mature egg cells supplied by the ovary 4 and guides them towards the outlet where they are fertilised and may remain before they finally reach the uterus. In principle, the capsule 3 thus takes over the function of the funnel–shaped entrance to the fallopian tube and the tubular outlet 2 correspondingly assumes the function of the actual fallopian tube, so that the implant simulates the entire correct function of the natural fallopian tube.

0) US2005033448A – BODY IMPLANTATION TUBE

48) Family number: 27099330 (US2005033448A) © PatBase

Title: BODY IMPLANTATION TUBE

Priority: KR20010031782 20010607 WO2002KR01077 20020607

Family:

Publication number	Publication date	Application number	Application date
EP1397087 A1	20040317	EP20020733561	20020607
JP2004528134 T2	20040916	JP20030501369T	20020607
KR20020094074 A	20021218	KR20010031782	20010607
US2005033448 AA	20050210	US20020479288	20020607
WO02098324 A1	20021212	WO2002KR01077	20020607

Probable Assignee: HB MEDICALS CORP

Assignee(s):(std)**:** HB MEDICALS CORP ; HBMEDICALS CO LTD ; LEE HOON BUM

Inventor(s):(std)**:** LEE HOON BUM ; LEE JAE GUK

Agent(s): LADAS AND PARRY

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

International class (IPC 8–9): A61F2/04 (Advanced/Invention); A61F2/04 (Advanced/Non–invention); A61F2/04 (Core/Invention)

International class (IPC 1–7): A61F2/04

CPC: A61F2/04

European class: A61F2/04

US class: 623/1.36 623/23.67 623/23.68

Classification Explorer

Cited documents: US5861036 A, US5800520 A, US5769882 A, US5674241 A, US5318513 A, US5211658 A, US5037427 A, US4098728 A, US3889684 A, US3726284 A, KR900005943 A, KR20000057496 A, JPH02118521 U, JP63174649 A2, JP5317409 A2, JP2118521 U1,

Forward Citations: WO07094577, WO04087013, US9402630, US9271734, US8491612, US8007541, US7691153, US2010010519, US2010010518, US2010010517, US2007299462, US2007276314, KR100840093, EP2967862, DE10327231, DE102013112437, DE102004012351,

Abstract:
Source: US2005033448A The present invention relates to a body implantation tube to be used for normalizing the flow of fluid in tubular organs of human body, injured by disease or accident, and comprising, a tubular body member with a longitudinal passage; one or more expanding–fixing members surrounding the body member, the expanding–fixing member being expanded, by absorbing the fluid flowing along the passage of the body member, to be fixed, in a tubular organ as a result of expansion; and a plurality of holes connecting the longitudinal passage of the body member to the expanding–fixing member, the holes being formed on the portion of the body member contacting to the expanding–fixing member.

0) US4765332A – PULLBACK ATHERECTOMY CATHETER SYSTEM

49) Family number: 5235630 (US4765332A) © PatBase

Title: Pullback atherectomy catheter system

Priority: US19860885139 19860714

Family:

Publication number	Publication date	Application number	Application date
EP0329653 A1	19890830	EP19870905076	19870714
EP0329653 A4	19900220	EP19870905076	19870714
US4765332 A	19880823	US19860885139	19860714
WO8800458 A1	19880128	WO1987US01704	19870714

Probable Assignee: ARROW INT INVESTMENT CORP

Assignee(s):(std)**:** FISCHELL ROBERT ; FISCHELL TIM A ; MEDINNOVATIONS INC

Assignee(s): FISCHELL ROBERT E ; MEDINNOVATIONS INC A CORP OF MD ; ARROW INT ; ARROW INT INVESTMENT CORP ; ARROW INT INVESTMENT CORP A CORP OF DE

Inventor(s):(std)**:** FISCHELL ROBERT E ; FISCHELL TIM A

Designated states: AT BE CH DE FR GB IT JP LI LU NL SE

International class (IPC 8–9)**:** A61B17/22 (Advanced/Invention); A61B17/22 (Core/Invention)

International class (IPC 1–7)**:** A61B17/32

CPC: A61B17/32075 A61B2017/22038

European class: A61B17/3207P K61B17/22G

US class: 128/304 128/305 606/159

Classification Explorer

Cited documents: US4631052 A, US4627436 A, US4589412 A, US4559927 A, US4273128 A, US4243049 A, US4055167 A, US4027658 A, US4018228 A, US4003369 A, US3831585 A, US3764427 A, US3565062 A, US3472230 A, US2730101 A, US1628275 A, US1167014 A, GB988130 A, GB2044103 A1, EP0163502 A2,

Forward Citations: WO9826833, WO9102494, WO9002523, WO8907422, WO07072043, WO0135839, USRE36764, US9636139, US9636138, US9615850, US9597110, US9579157, US9549755, US9549718, US9532844, US9532799, US9532797, US9526519, US9510831, US9486237, US9456843, US9445834, US9364255, US9326789, US9282992, US9241734, US9241733, US9220530, US9192406, US9119662, US9028512, US9023070, US8998937, US8992717, US8961546, US8920450, US8920446, US8911459, US8808186, US8784440, US8764779, US8685046, US8663259, US8597315, US8579927, US8579926, US8574249, US8496677, US8469979, US8414604, US8328829, US8246640, US8226674, US8192452, US8192451, US8142457, US8043259, US7842055, US7771445, US7716801, US7493160, US7491210, US7479147, US7396358, US7316661, US7235088, US7179269, US7172610, US7172609, US7131981, US7037319, US7011670, US7008434, US6994718, US6929632, US6800083, US6692504, US6685718, US6666874, US6482216, US6468227, US6454779, US6451037, US6451036, US6443966, US6416526, US6350271, US6340354, US6328750, US6328749, US6296651, US6270509, US6258109, US6183487, US6117153, US6096054, US6036708, US5902313, US5868768, US5843102, US5820629, US5800450, US5746758, US5728129, US5725543, US5665098, US5658302, US5643298, US5643297, US5556424, US5549615, US5522825, US5425376, US5423838, US5423799, US5409454, US5366463, US5352232, US5344395, US5308354, US5284478, US5282813, US5224949, US5217474, US5211651, US5192291, US5176693, US5160342, US5156610, US5152773, US5127902, US5087265, US5085662, US5078723, US5074871, US5071424, US5069679, US5019088, US5011490, US4994067, US4986807, US4966604, US4950277, US4942788, US4895166, US4887613, US4886061, US2014039546, US2011224582, US2011144673, US2011130777, US2010298850, US2010292721, US2010198240, US2010130996, US2010036399, US2009306691, US2009299394, US2009275965, US2007276419, US2007010840, US2006265000, US2006085026, US2005261721, US2005124876,

US2005096691, US2005033172, US2005004594, US2004193204, US2004193196, US2004138733, US2004127920, US2004098018, US2004073251, US2003216760, US2003199890, US2003009125, US2001004700, NL1034344, EP1166817, EP0959938, EP0909552, EP0906748, EP0680281, EP0479433, EP0356507, DE4307642, DE3830704, DE19507560, AU712619, AU641042, AU623575,

Abstract:
Source: US4765332A An atherectomy apparatus and method is disclosed for the purpose of surgical excision of atheromas which typically consist of plaque deposits that cause narrowing (stenosis) of an artery. The apparatus, called a pullback atherectomy catheter, cuts and collects obstructive material into a collection chamber as the catheter is pulled back through obstructive material within a human vessel such as an artery.

50) Family number: 23711902 (US2004104027A) © PatBase

Title: OPTIMIZATION OF RESERVOIR, WELL AND SURFACE NETWORK SYSTEMS

Priority: US20010266464P 20010205 US20010266800 20010206 US20020467275 20020204 US20020467274 20020206 US20040467274 20040312 US20010266800P 20010206 WO2002US03224 20020204 US20040467275 20040120 US20060279773 20060414 WO2007US66242 20070409 WO2002US03941 20020206

Family:

Publication number	Publication date	Application number	Application date
AT375179 E	20071015	AT20020707755T	20020206
AU2002235526 AA	20020819	AU20020235526	20020204
AU2002235526 BB	20070215	AU20020235526	20020204
AU2002242144 AA	20020819	AU20020242144	20020206
BRPI0203994 A	20030506	BR2002PI03994	20020204
BRPI0203994 B1	20111004	BR2002PI03994	20020204
CA2436166 AA	20030724	CA20022436166	20020206
CA2437335 AA	20030801	CA20022437335	20020204
CA2437335 C	20080108	CA20022437335	20020204
DE60222870 D1	20071122	DE20026022870	20020206
DE60222870 T2	20080515	DE20026022870T	20020206
EA005604 B1	20050428	EA20030000855	20020204
EA200300855 A1	20040826	EA20030000855	20020204
EP1358394 A1	20031105	EP20020702144	20020204
EP1358394 A4	20050518	EP20020702144	20020204
EP1358394 B1	20070124	EP20020702144	20020204
EP1377335 A2	20040107	EP20020707755	20020206
EP1377335 A4	20060308	EP20020707755	20020206
EP1377335 B1	20071010	EP20020707755	20020206
EP2012666 A2	20090114	EP20070760326	20070409
IL157120 A0	20040208	IL20020157120	20020206
IN01000KN2003 A	20050715	IN2003KN01000	20030805
IN219500 B	20080509	IN2003KN01000	20030805
JP2004524893 T2	20040819	JP20020562274T	20020206
JP2009533175 T2	20090917	JP20090505560T	20070409
JP4234994 B2	20090304	JP20020562274T	20020206
MXPA03006977 A1	20040402	MX2003PA06977	20020204
MXPA03007008 A1	20041015	MX2003PA07008	20020206
NO20024720 A	20021205	NO20020004720	20021001
NO20024720 A0	20021001	NO20020004720	20021001
NO329034 B1	20100802	NO20020004720	20021001
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Probable Assignee: MEDTRONIC VASCULAR INC

Assignee(s):(std)**:** ROSSI DAVID J ; SCHLUMBERGER HOLDINGS ; SCHLUMBERGER CA LTD ; SCHLUMBERGER SERVICES PETROL ; TRANSVACULAR INC ; MACAULAY PATRICK E ; MAKOWER JOSHUA ; MEDTRONIC VASCULAR INC ; SCHLUMBERGER HOLDINGS LTD ; SCHLUMBERGER CANADA LTD ; TRANSVASCULAR INC ; NAYAK ASHA ; SCHLUMBERGER TECHNOLOGY CORP ; BECKEY BRIAN R ; FLYNN JAMES J ; KIM ISAAC HAN JOON ; LAMSON THEODORE C ; MACAULAY PATRICK

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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

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International class (IPC 1–7): A61B17/34 A61B5/05 A61F A61F0/00 A61M25/00 A61M25/01 A61M25/095 E21B41/00 E21B43/00 E21B43/12 E21B47/00 E21B47/12

CPC: E21B43/12 E21B2041/0028 A61B6/508 A61B5/06 A61B5/042 A61B5/6853 A61B5/6859 A61B5/6886 A61B6/12 A61B6/5247 A61B8/0833 A61B8/12 A61B8/5238 A61B17/3478 A61B2017/00252 A61M25/0105 A61M25/0662 A61B34/20 A61B2034/107 A61B2034/2051 A61B2034/2072 A61B2090/3954 A61B2090/374 G01R33/287 A61B5/02007 A61B5/055 A61B5/064 A61B5/416 A61B5/4839 A61B5/6852 A61M25/0029 A61M25/007 A61M25/0127 A61M2025/0037 A61M2025/0096 A61B5/061 A61B5/062

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Classification Explorer

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Abstract:
Source: US2004104027A A method and associated apparatus continuously optimizes reservoir, well and surface network systems by using monitoring data and downhole control devices to continuously change the position of a downhole intelligent control valve (ICV) (12) until a set of characteristics associated with the "actual" monitored data is approximately equal to, or is not significantly different than, a set of characteristics associated with "target" data that is provided by a reservoir simulator (32). A control pulse (18) having a predetermined signature is transmitted downhole thereby changing a position of the ICV. In response, a sensor (14) generates signals representing, "actual" monitoring data. A simulator (32) which models a reservoir layer provides "target" data. A computer apparatus (30) receives the "actual" data and the "target" data and, when the "actual" data is not approximately equal to the "target" data the computer apparatus (30) executes a "monitoring and control process" program code which changes the predetermined signature of the control pulse to a second and different predetermined signature. A new pulse having the second predetermined signature is transmitted downhole and

the above process repeat until the "actual" data received by the computer apparatus (30) is approximately equal to the "target" data.

0) US5162430A – COLLAGEN–POLYMER CONJUGATES

51) Family number: 29989118 (US5162430A) © PatBase

Title: COLLAGEN–POLYMER CONJUGATES

Priority:

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Family:

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Assignee(s): ANGIOTECH INT HOLDINGS CORP ; COLLAGEN A CORP OF DE CORP ; ANGIOTECH PHARMACEUTICALS US INC ; COLLAGN CORP ; HOECHST 65929 FRANKFURT DE AG ; CREDIT SUISSE COLLATERAL AGENT AS ; WELLS FARGO FOOTHILL LLC AGENT AS ; WELLS FARGO CAPITAL FINANCE LLC ADMINISTRATIVE AGE ; MANAN MEDICAL PRODUCTS INC ; MEDICAL DEVICE TECHNOLOGIES INC ; QUILL MEDICAL INC ; SURGICAL SPECIALTIES CORP ; FRIES LOUIS ; DELUSTRO FRANK ; MICHAELS ALAN S ; WALLACE DONALD G ; RHEE WOONZA ; WELLS FARGO CAPITAL FINANCE LLC ADMINISTRATIVE AGENT AS ; SAKAI NAOMI ; HARNER CAROL F H ; DELUSTRO FRANK A ; SCHROEDER JACQUELINE A ; RAO PREMA R ; SCHOLZ WOLFGANG ; WEICHERT ANDREAS ; LANG HANS JOCHEN ; KLEEMANN HEINZ WERNER ; SCHWARK JAN ROBERT ; CREDIT SUISSE AS COLLATERAL AGENT ; WELLS FARGO FOOTHILL LLC AS AGENT ; SURGICAL SPECIALTIES US INC CORP WAS KNOWN AS ANGIOTECH PHARMACEUTICALS US INC.. ; HOECHST GMBH ; COLLAGEN CORP PALO ALTO ; COLLAGEN CORP PALO ALTO CALIF US ; COHESION TECHNOLOGIES INC PALO ALTO CALIF US ; BG SULZLE INC ; BENTZ HANNE ; BURNS RAMON A JR ; CHU GEORGE H ; ANGIOTECH PHARMACEUTICALS (US) INC ; COLLAGEN AESTHETICS INC ; ANGIOTECH PHARMACEUTICALS INC ; ABLECO FINANCE LLC AGENT AS ; ALBUS UDO ; AMERICAN MEDICAL INSTRUMENTS HOLDINGS INC ; ANGIODEVICE INT ; ANGIODEVICE INT GMBH ; ANGIOTECH AMERICA INC ; ANGIOTECH BIOCOATINGS CORP

Inventor(s):(std)**:** WALLACE DONALD ; WOLFGANG SCHOLZ ; WOONZA M RHEE ; WOONZA RHEE ; YANNROOBERUTO SHIYUBUARUKU ; WEICHERT ANDREAS DR ; WEICHERT ANDREAS ; UUNZA EMU RII ; UUDOO ARUBUSU ; UOONZA EMU RII ; SCHWARK JAN ROBERT DR ; SCHWARK JAN ROBERT ; SCHROEDER JACQUELINE A ; SCHOLZ

WOLFGANG DR ; SCHOLZ WOLFGANG ; SCHMIDT ROBERT R ; SAKAI NAOMI ; RICHIYAADO EI BAAGU ; RHEE WOONZA M ; RHEE WONZA M ; RAO PREMA R ; PURIMA AARU RAO ; PUREMA AARU RAO ; NAOMI SAKAI ; LANG HANS JOCHIN ; LANG HANS JOCHEN DR ; LANG HANS JOCHEN ; KLEEMANN HEINZ WERNER DR ; KLEEMANN HEINZ WERNER ; KIYARORU EFU EICHI HAANAA ; JIYOOJI EICHI CHIYU ; JIYATSUKURIIN EI SHIYUROODAA ; HARNER CAROL F H ; HANSUUYOOHEN RANGU ; HAINTSUUBUERUNAA KUREEMAN ; FURANKU EI DERASUTORO ; DELUSTRO FRANK A ; DAMANI RAMESH ; CHU GEORGE H ; BURNS JR RAMON A ; BUORUFUGANGU SHIYORUTSU ; ANDOREEASU BUAIHIERUTO ; ALBUS UDO DR ; ALBUS UDO ; WALLACE DONALD G ; RHEE WOONZA ; MICHAELS ALAN S ; MCCULLOUGH KIMBERLY ; FRIES LOUIS ; DELUSTRO FRANK ; BURNS RAMON A JR ; BERG RICHARD A ; BENTZ HANNE ; ALAN S MICHAELS ; ANDREAS WEICHERT ; BRAGA LARRY J ; BURNS RAMON ; BURNS RAMON A ; DONALD G WALLACE ; DRALBUS UDO ; DRKLEEMANN HEINZ WERNER ; DRLANG HANS JOCHEN ; DRSCHOLZ WOLFGANG ; DRSCHWARK JAN ROBERT ; DRWEICHERT ANDREAS ; FRANK DELUSTRO ; FREEMAN ABIGAIL ; FREEMAN ABIGAL ; HANNE BENTZ ; HANS JOCHEN LANG ; HEINZ WERNER KLEEMANN ; JAN ROBERT SCHWARK ; KIMBERLY MCCULLOUGH ; LOUIS FRIES ; MICHAELS ALAN ; RAMESH DAMANI ; RAMON A BURNS JR ; ROSENBLATT JOEL S ; SCHOLZ WOLFGANG AND ; SMESTAD THOMAS L ; TEFFT JACQUELINE A ; UDO ALBUS ; DR WEICHERT ANDREAS ; DR SCHWARK JAN ROBERT ; DR SCHOLZ WOLFGANG ; DR LANG HANS JOCHEN ; DR KLEEMANN HEINZ WERNER ; DR ALBUS UDO ; RICHARD A BERG

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Agent(s): FB RICE; WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; BATTISON WILLIAMS DUPUIS; BERESKIN AND PARR; ADE AND CO; EITAN PEARL LATZER AND COHEN ZEDEK

Designated states: AT AU BE CH DE DK ES FR GB GR IE IT JP LI LU MC NL PT SE

International class (IPC 8–9): A61F2/00 A61F2/06 A61F2/07 A61F2/14 A61K31/155 A61K31/165 A61K31/166 A61K31/33 A61K31/44 A61K31/47 A61K31/472 A61K31/715 A61K38/00 A61K38/17 A61K38/21 A61K38/22 A61K45/06 A61K47/42 A61K47/48 A61K9/22 A61K9/38 A61L15/22 A61L24/00 A61L24/08 A61L24/10 A61L26/00 A61L27/00 A61L27/18 A61L27/20 A61L27/24 A61L27/26 A61L27/34 A61L27/44 A61L27/54 A61L29/04 A61L29/06 A61L29/16 A61L31/00 A61L31/04 A61L31/10 A61L31/12 A61L31/16 A61P1/04 A61P1/16 A61P11/00 A61P13/08 A61P13/12 A61P17/00 A61P3/10 A61P35/00 A61P43/00 A61P7/02 A61P9/00 A61P9/02 A61P9/06 A61P9/08 A61P9/10 A61P9/12 C07C233/65 C07C277/00 C07C277/08 C07C279/18 C07C279/22 C07D207/337 C07D213/30 C07D213/56 C07D213/58 C07D215/14 C07D215/50 C07D217/16 C07D217/18 C07D217/24 C07D231/12 C07D263/32 C07D277/30 C07D307/54 C07D333/24 C07K1/113 C07K14/495 C07K14/52 C07K14/575 C07K14/78 C07K17/08 C08B37/00 C08B37/08 C08G65/32 C08G81/00 C08H1/00 C08H1/02 C08H1/06 C08L89/00 C08L89/06 C09J189/06 G02B1/04 (Advanced/Invention);
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A61F2/00 A61F2/06 (Core/Non–invention)

International class (IPC 1–7): A01N1/02 A61B17/04 A61B17/07 A61F13/00 A61F15/00 A61F2/00 A61F2/02 A61F2/14 A61F2/30 A61K31/155 A61K31/165 A61K31/166 A61K31/33 A61K31/44 A61K31/47 A61K31/715 A61K35/12 A61K35/14 A61K35/24 A61K35/37 A61K37/02 A61K37/12 A61K37/24 A61K37/36 A61K37/66 A61K38/00 A61K38/17 A61K38/21 A61K38/22 A61K38/39 A61K45/06 A61K47/34 A61K47/38 A61K47/40 A61K47/42 A61K47/48 A61K9/14 A61K9/22 A61K9/50 A61L15/32 A61L24/10 A61L25/00 A61L27/00 A61L29/00 A61L31/00 A61P1/04 A61P1/16 A61P11/00 A61P13/08 A61P13/12 A61P3/10 A61P35/00 A61P43/00 A61P7/02 A61P9/00 A61P9/02 A61P9/06 A61P9/10 A61P9/12 B01J19/08 C07C233/65 C07C277/00 C07C277/08 C07C279/18 C07C279/22 C07D207/337 C07D213/24 C07D213/30 C07D213/56 C07D213/58 C07D213/60 C07D215/12 C07D215/14 C07D215/16 C07D215/50 C07D215/60 C07D217/02 C07D217/12 C07D217/16 C07D217/18 C07D217/22 C07D217/24 C07D231/12 C07D263/32 C07D277/30 C07D307/54 C07D333/24 C07K14/78 C07K15/08 C07K15/20 C07K17/08 C08B37/00 C08G63/40 C08G63/48 C08G63/49 C08G63/91 C08G65/32 C08G81/00 C08G83/00 C08G83/00 C08H1/00 C08H1/02 C08H1/06 C08J3/00 C08J3/00 C08J7/12 C08L71/02 C08L89/00 C08L89/00 C08L89/04 C08L89/06 G02B1/04 G02C7/04

CPC: A61L24/08 A61F2002/072 A61L2300/236 A61L2300/25 A61L2300/406 A61L2300/41 A61L2300/42 A61L31/16 Y10S530/84 Y10S602/904 A61K47/48292 A61L27/18 A61L27/20 A61L29/043 A61L29/045 A61L29/06 A61L29/16 A61L31/042 A61L2300/252 A61L2300/802 Y10S525/937 Y10S525/935 Y10S514/821 A61L15/225 A61L2300/62 G02B1/043 A61K38/00 A61K47/48215 A61K47/4823 A61L26/0033 C07K14/495 C07K14/78 C08B37/0069 C08B37/0072 C07C279/22 C08L89/06 A61F2/07 A61F2310/00365 A61L24/102 A61L27/24 A61L27/26 A61L27/34 A61L27/44 A61L27/54 A61L31/041 A61L31/044 A61L31/10 A61L31/125 A61L2300/414 A61L2300/426 A61L2300/602 A61L2430/02 A61L2430/16 C08H1/06 C09J189/06

European class: A61K47/48K6P A61K47/48K8 A61K47/48R2N A61L15/22M A61L24/08 A61L24/10A A61L26/00B6A A61L27/18 A61L27/20 A61L27/24 A61L27/26 A61L27/34 A61L27/44 A61L27/54 A61L29/04D A61L29/04F2 A61L29/06 A61L29/16 A61L31/04B A61L31/04D A61L31/04F2 A61L31/10 A61L31/12D A61L31/16 C07C279/22 C07K14/495 C07K14/78 C08B37/00P2D C08B37/00P2F C08H1/06 C08L89/06 C09J189/06 G02B1/04B2 K61F2/07 K61F2/07B K61F310/00A66 K61K38/00 K61L300/236 K61L300/250 K61L300/252 K61L300/406 K61L300/410 K61L300/414 K61L300/420 K61L300/426 K61L300/602 K61L300/620 K61L300/802 K61L430/02 K61L430/16

US class: 210/748 250/432R 250/492.1 250/492.3 378/64 378/66 422/22 424/422 424/423 424/426 424/484 424/486 424/487 424/488 424/499 424/520 424/529 424/531 424/537 424/546 424/548 424/577 424/578 424/579 424/580 424/78.17 514/614 514/615 514/617 514/619 514/622 514/821 522/1 523/105 523/113 523/115 525/54.1 525/54.2 525/54.21 525/54.22 525/54.23 525/54.24 525/935 525/937 530/356 530/402 530/840 558/415 564/161 564/163 564/165 564/166 564/167 602/52 602/54 602/904 604/11 604/891.1 606/229 606/289 606/290 623/11

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Abstract:
Source: US5162430A Collagen, particularly atelopeptide collagen, exhibits improved handling characteristics when chemically conjugated and/or crosslinked with a synthetic hydrophilic polymer.

0) US2011208181A – METHODS AND SYSTEMS FOR RESTORING PATENCY

52) Family number: 49470986 (US2011208181A) © PatBase

Title: METHODS AND SYSTEMS FOR RESTORING PATENCY

Priority: US20100301994P 20100205 US20100302434P 20100208 US20110019911 20110202

Family:

Publication number	Publication date	Application number	Application date
US2011208181 AA	20110825	US20110019911	20110202

Probable Assignee: EMCISION LTD

Assignee(s):(std)**:** EMCISION LTD

Assignee(s): EMCISION LIMITED

Inventor(s):(std)**:** HABIB NAGY

International class (IPC 8–9)**:** A61B17/22 A61B18/18 (Advanced/Invention)

CPC: A61B18/1492 A61B2017/00084 A61B2017/22001 A61B2017/22038 A61B2018/00422 A61B2018/00702 A61B2018/00875

European class: A61B18/14V K61B17/00C1T K61B17/22A K61B17/22G K61B18/00F6C6 K61B18/00H10A K61B18/00H12R

US class: 606/128 606/128S 606/33 606/33P

Classification Explorer

Cited documents: US8401667 BB, US7742795 BB, US7291146 BB, US7122033 BB, US6589238 BB, US6551310 BA, US6317615 BA, US6066139 A, US5749914 A, US5599300 A, US5334208 A, US522832 A, US5178620 A, US5178618 A, US4976711 A, US4709698 A, US4699611 A, US2010256616 AA,

Abstract:
Source: US2011208181A A method for maintaining patency in a duct or hollow vessel located within the body of a patient is described wherein the duct includes one or more obstructions. The method comprises the steps of introducing a device into the duct, the device comprising a catheter having a distal and a proximal end, wherein the distal end includes a distal tip portion and wherein the distal tip portion comprises at least one energy delivery member; locating the device within the duct at a position proximal to the obstruction; delivering energy to the duct and any surrounding tissue via the at least one energy delivery member for a specified time period, so that the obstruction is removed from the duct; and withdrawing the device from the duct. It is optional to subsequently place a device such as a stent at the therapy site in order to further maintain long term patency of the duct. It is also optional to apply a dilation force to the duct or hollow vessel after the energy delivery phase. Systems are also described for performing the methods of the disclosure.

0) US4509504A – OCCLUSION OF BODY CHANNELS

53) Family number: 4718790 (US4509504A) © PatBase

Title: Occlusion of body channels

Priority: US19780870595 19780118 US19790079951 19790928

Family:

Publication number	Publication date	Application number	Application date
US4509504 A	19850409	US19790079951	19790928

Probable Assignee: MEDLINE AB

Assignee(s):(std)**:** MEDLINE AB

Assignee(s): MEDLINE WALLINGATAN AB

Inventor(s):(std)**:** BRUNDIN JAN OLOF

International class (IPC 8–9)**:** A61F6/22 A61K9/00 (Advanced/Invention); A61F6/00 A61K9/00 (Core/Invention)

International class (IPC 1–7)**:** A61B17/00

CPC: A61F6/225 A61K9/0039

European class: A61F6/22B A61K9/00M8D

US class: 128/130 128/1R 128/831 128/843 128/899 604/55

Classification Explorer

Cited documents: US4185618 A, US4030504 A, US3957362 A, US3943045 A, US3867329 A, US3858571 A, US3818894 A, US3690316 A, US3675639 A, US3230953 A, US3042030 A,

Forward Citations: WO02096302, US9597224, US9554826, US9517159, US9486221, US9456823, US9451963, US9421121, US9402762, US9381278, US9308023, US9259228, US9238127, US9220880, US9114200, US9034053, US9034005, US9017361, US9017350, US8968353, US8882796, US8764788, US8733361, US8733360, US8726906, US8709038, US8702727, US8695606, US8695604, US8613282, US8603128, US8584679, US8562623, US8550086, US8506543, US8434489, US8398677, US8381733, US8356600, US8356599, US8336552, US8333786, US8333201, US8327852, US8324193, US8316854, US8316853, US8273100, US8262695, US8231619, US8226645, US8217219, US8171936, US8105622, US8079364, US8066007, US8052669, US8048101, US8048086, US8011370, US7972354, US7942897, US7934504, US7921848, US7905880, US7842054, US7842035, US7799047, US7780980, US7686020, US7648713, US7591268, US7582085, US7506650, US7491214, US7483558, US7428904, US7237552, US7201762, US7029487, US7014645, US7001410, US6763833, US6709667, US6705323, US6684884, US6679266, US6634361, US6602261, US6526979, US6500190, US6357443, US6299619, US6238403, US6176240, US6165193, US6145505, US5979446, US5935137, US5826584, US5783302, US5665822, US5469867, US5456693, US5065751, US4983177, US4834091, US4805618, US4788966, US4628924, US4606336, US2016082144, US2014316012, US2011212178, US2011184455, US2011180073, US2011172695, US2011108039, US2011094519, US2011030696, US2011005062, US2010234884, US2010119451, US2010086492, US2010063360, US2010006105, US2009277463, US2009232869, US2009159088, US2009125023, US2009112250, US2009088723, US2009036840, US2008017201, US2007248640, US2007215163, US2007160647, US2007144528, US2007062542, US2007044808, US2007023534, US2007000496, US2006282159, US2006282158, US2006212127, US2006212055, US2006193899, US2006190076, US2006184196, US2006149299, US2006144406, US2005288675, US2005232961, US2005220882, US2005171572, US2005148995, US2005070886, US2005061329, US2005033281, US2005010248, US2004255958, US2004211429, US2004206358, US2004163651, US2004163650, US2004159324, US2004127918, US2004122350, US2004122349, US2004098028, US2004079377, US2004059370, US2004009205, US2003199917, US2003139773, US2003139772, US2003139771, US2003139770, US2003135236, US2003135235, US2003083737, US2002177855, EP2319430, AU2006225285, AU2002344223,

Abstract:
Source: US4509504A A method for obstructing channels, ducts and other hollow spaces in human and animal

bodies is disclosed comprising inserting a device having a portion thereof adapted to swell at least 20 percent in size when in contact with the fluid of the human or animal body, the device being in a shape matching and cooperating with the channel to be obstructed.

0) US4768507A – INTRAVASCULAR STENT AND PERCUTANEOUS INSERTION ...

54) Family number: 8978644 (US4768507A) © PatBase

Title: INTRAVASCULAR STENT AND PERCUTANEOUS INSERTION CATHETER SYSTEM FOR THE DILATION OF AN ARTERIAL STENOSIS AND THE PREVENTION OF ARTERIAL RESTENOSIS

Priority: EP19930250022 19870213 US19860832216 19860224 US19870093110 19870831 WO1987US00290 19870213

Family:

Publication number	Publication date	Application number	Application date
DE3786721 D1	19930902	DE19873786721	19870213
EP0257091 A1	19880302	EP19870901864	19870213
EP0257091 A4	19891120	EP19870901864	19870213
EP0257091 B1	19930728	EP19870901864	19870213
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US4768507 A	19880906	US19870093110	19870831
WO8704935 A1	19870827	WO1987US00290	19870213

Probable Assignee: MEDINNOVATIONS INC A CORPP OF MARYLAND

Assignee(s):(std)**:** FISCHELL ROBERT ; FISCHELL TIM A ; MEDINNOVATIONS INC

Assignee(s): MEDINNOVATIONS INC A CORPP OF MARYLAND ; FISCHELL ROBERT E

Inventor(s):(std)**:** FISCHELL ROBERT E ; FISCHELL TIM A

Designated states: AT BE CH DE FR GB IT JP LI LU NL SE

International class (IPC 8–9)**:** A61F2/06 A61F2/82 A61F2/84 A61F2/88 A61L31/08 A61L31/10 A61M29/00 (Advanced/Invention); A61F2/00 (Advanced/Non–invention)

International class (IPC 1–7)**:** A61B17/00 A61F2/06 A61M29/00

CPC: A61F2/0077 A61F2/82 A61F2/88 A61F2/95 A61F2/958 A61F2002/9665 A61L31/084 A61L31/10 A61F2210/0076

European class: A61F2/06S A61F2/06S2 A61F2/06S2B A61F2/06S6C A61F2/82 A61F2/88 A61F2/95 A61F2/958 A61L31/08B2 A61L31/10 K61F2/00L K61F2/06S2B K61F2/958 K61F2/966B

US class: 128/303R 128/341 623/1.11

Classification Explorer

Cited documents: US4655771 A, US4649922 A, US4553545 A, US4512338 A, US4503569 A, US4300244 A, US3952747 A, US1767785 A, FR2570288 A1, FR1602513 A,

Forward Citations: WO9857706, WO9818408, WO9748343, WO9709932, WO9639998, WO9639998, WO9626682, WO9530384, WO9530384, WO9505132, WO9426174, WO9421309, WO9322986, WO9116005, WO9107928, WO08002632, WO08002632, WO04087006, WO04087006, WO03061527, WO0197717, WO0197687, WO0185062, WO0056249, USRE42758, USRE40122, USD458679, US9636116, US9629736, US9629687, US9622754, US9622753, US9610181, US9610073, US9597212, US9585783, US9585776, US9585725, US9585669, US9579225, US9579129, US9561122, US9549835, US9545268, US9532888, US9486227, US9468442, US9463105, US9463012, US9452070, US9451965, US9445926, US9439642, US9421005, US9408730, US9408729, US9393022, US9393021, US9381104, US9364586, US9358325, US9333279, US9320590, US9314248, US9301831, US9295571, US9295570, US9295568, US9283099, US9278020, US9271779, US9271766, US9271741, US9259341, US9248034, US9247942, US9237944, US9226828, US9204983, US9198785, US9198666, US9192395, US9179918, US9173733, US9173650, US9173647, US9157174, US9155647, US9155609, US9155544, US9149610, US9149374, US9149281, US9149277, US9144509, US9144508, US9138222, US9125765, US9125659, US9114039, US9114038, US9114001, US9108028, US9107669, US9101949, US9101501, US9095416, US9095344, US9095343, US9095342, US9089332, US9089323, US9084669, US9078778, US9072820, US9072623, US9067362, US9060886, US9060767, US9050205, US9038260, US9034029, US9023095, US9023094, US9017351, US8984733,

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Abstract:
Source: US4768507A This invention is in the field of percutaneous insertion catheters that are used for placing a coil spring stent into a vessel of a living body for the purposes of enhancing luminal dilation, preventing arterial restenosis and preventing vessel blockage resulting from intimal dissection following balloon and other methods of angioplasty. The stent can also be used for the maintaining patency of many different ducts or vessels within a living body.

0) US2010057067A – MODULAR PULSED PRESSURE DEVICE FOR THE TRANSPOR...

55) Family number: 44455605 (US2010057067A) © PatBase

Title: MODULAR PULSED PRESSURE DEVICE FOR THE TRANSPORT OF LIQUID CRYOGEN TO A CRYOPROBE

Priority:

CN201280021451	20120302	EP20090812404	20091102	US20080093916P	20080903
US20080098244P	20080919	US20090061171	20091102	US20090240863P	20090909
US20090553005	20090902	US20090562301	20090918	US20100821274	20100623
US20100319525P	20100331	US20110038862	20110302	US20090607721	20091028
US20110061171	20110228	US20090607721	20090928	WO2009US62928	20091102
US20110077399	20110331	US20120683140	20121121	WO2012US27512	20120302
US20140336317	20140721	US20150715092	20150518	US20160230096	20160805

Family:

Publication number	Publication date	Application number	Application date
BR112013022378 A2	20161206	BR20131122378	20120302
CA2736221 AA	20110303	CA20092736221	20091102
CA2736221 C	20160105	CA20092736221	20091102
CA2829058 AA	20130903	CA20122829058	20120302
CL2013002518 A1	20140725	CL20130002518	20130902
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Probable Assignee: CPSI HOLDINGS LLC

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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 QA RO RS RU RW 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

International class (IPC 8–9): A61B A61B18/02 A61B18/18 A61B18/20 A61K31/337 A61K9/51 F16L59/065 F16L59/153 F17C9/00 F17C9/02 F25B19/00 F25D19/00 F25D3/00 (Advanced/Invention);
A61B18/00 (Advanced/Non–invention);
A61B18/00 F16L59/00 F16L59/06 F17C9/00 F25B19/00 F25D3/00 (Core/Invention);
A61B (Subclass/Invention)

CPC: A61K9/0024 A61K9/145 A61K31/00 A61K31/282 A61K31/337 A61K31/513 A61K31/59 A61K31/7048 A61K45/06 A61M5/44 A61M37/0069 A61M2205/3606 A61B18/0218 F17C9/00 A61B2018/0268 A61B2018/00041 A61B2018/00357 A61B2018/00577 A61B2018/00994 F25B2400/01 F25D3/00 F25D19/00 A61B2018/00202 A61B2017/003 A61B2018/00208 A61B2018/00797 A61B2090/064 A61B18/02 A61B2018/00791 A61B2018/00863 A61B2018/00982 A61B2018/0212 A61B2018/0262 A61B5/0084 A61B5/01 A61B5/036 A61B5/0422 A61B2017/00084 A61B2017/22051 A61B2018/00101 A61B2018/0022 F04C2270/0421 F17C9/02 F25B19/005 F17C2270/02 F17C2223/013 F25D2400/02

European class: A61B18/02 A61K31/00 A61K31/282 A61K31/337 A61K31/513 A61K31/59 A61K31/7048 A61K45/06 A61K9/00M5D A61K9/14H4 A61M37/00P F25D19/00 F25D3/00 K61B17/00C1T K61B17/00E3G K61B17/22H K61B18/00A4 K61B18/00B14A K61B18/00B2H4 K61B18/00F6A1 K61B18/00G1 K61B18/00R K61B18/00X K61B18/02C K61B18/02H4 K61B18/02H4R K61B19/46H K61B5/00P12B K61B5/01 K61B5/03H K61B5/042D K61M205/36A K61M5/44 R25B400/01

US class: 1/1 604/59 604/60 604/61 606/14 606/14S 606/20 606/21 606/21P 606/22 606/22S 606/23 606/23P 606/23S 606/24 606/24P 62/293 62/293S 62/50.1 62/50.7 62/50.700S 62/51.1 62/51.100S

Classification Explorer

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Forward Citations: WO15035071, WO14190022, WO14144626, WO13131101, WO13052858, WO12119088, WO11026215, USD777338, US9655770, US9566105, US9545523, US9408745, US9408654, US9381055, US9375345, US9314368, US9301796, US9243726, US9144449, US9101343, US9089316, US9084590, US9078733, US8998888, US8784409, US8747397, US8298219, US2016123537, US2015276131, US2015068232, US2014350535, US2014276710, US2014276706, US2014200567, US2014039476, US2013204241, US2013192194, US2013079761, US2012028933, US2011152849, US2011054453, US2010256622, US2010057067, US2010057064, RU2613078, FR2989265, EP2967707, EP2819600, EP2680775, EP2680775, CN105769373, CN103501719, CN103417288,

Abstract:
Source: US2010057067A A cryogenic medical device for delivery of subcooled liquid cryogen to various configurations of cryoprobes is designed for the treatment of damaged, diseased, cancerous or other unwanted tissues. The device is a closed or semi−closed system in which the liquid cryogen is contained in both the supply and return stages. The device is capable of generating cryogen to a supercritical state and may be utilized in any rapid cooling systems. As designed, the device comprises a number of parts including a vacuum insulated outer dewar, submersible cryogen pump, baffled linear heat exchanger, multiple pressurization cartridges, a return chamber, and a series of valves to control the flow of the liquid cryogen. The cryogenic medical device promotes the subcooling to any external cryogenic instrument.

0) US2007244492A – FALLOPIAN TUBE INTRA–LUMINAL SPLINT FOR REANAST...

56) Family number: 40493157 (US2007244492A) © PatBase

Title:	FALLOPIAN TUBE INTRA–LUMINAL SPLINT FOR REANASTOMOSIS
Priority:	US20060345728 20060202

Family:

Publication number	Publication date	Application number	Application date
US2007244492 AA	20071018	US20060345728	20060202

Probable Assignee:	HO WINSTON Z
Assignee(s):(std)	HO WINSTON Z ; SUH BO Y ; WANG FU NAN
Inventor(s):(std)	HO WINSTON Z ; SUH BO Y ; WANG FU NAN
Inventor(s):	HO WINSTON ; SUH BO YOUNG ; HO WINSTON ZONH ; SUH BO
Agent(s):	WINSTON Z HO
International class (IPC 8–9):	A61B17/10 (Advanced/Invention); A61B17/03 (Core/Invention)
CPC:	A61B17/0469 A61B17/0482 A61B17/11 A61B2017/00345 A61B2017/4233 A61F6/20
European class:	A61B17/11 K61B17/00E4 K61B17/04E K61B17/04G K61B17/42F K61F6/20
US class:	606/139
Classification Explorer	
Cited documents:	US6056762 A, US5879371 A, US5425739 A, US5222964 A, US4674506 A, US4553542 A, US4307723 A, US2003060800 AA,

Abstract:
Source: US2007244492A The tubal splint is designed to fit the inner side of a tube, such as fallopian tubes, and can be slided in through the fimbriated end (outer side of entrance toward the uterus) prior to the reanastomosis. This invention is to provide a simple method for tubal reanastomosis suturing operation. By utilizing the splint, both ends of the tube can yield the best prognostic position for the suturing. This invention is to provide a tubal splint so that the stitches can be placed easily and appropriately on the right spots when both ends are arranged in proximity.

- **search:** SS3 FT=occlu* and hollow and (channel or passage or bore) and (helix or spiral) (Results 282)
- List: SS3 1–50 (FT=occlu* and hollow and (channel or passage or bore) and (helix or spiral)) (Results 282)

0) US2002111647A – ADJUSTABLE LEFT ATRIAL APPENDAGE OCCLUSION DEVI...

1) Family number: 31133104 (US2002111647A) © PatBase

Title: ADJUSTABLE LEFT ATRIAL APPENDAGE OCCLUSION DEVICE

Priority:

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US19980187200	19981106	US20010033371	20011019	US19990435562	19991108
US20030641818	20030815	US20030426130	20030428	US20030441492	20030516
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US20160333945	20161025				

Family:

Publication number	Publication date	Application number	Application date
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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 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

International class (IPC 8–9): A61B17/00 A61B17/08 A61B17/11 A61B17/12 A61B17/122 A61B29/00 A61D1/00 A61F2/01 A61F2/04 A61F2/06 A61F2/958 A61K31/12 A61L27/00 A61L27/48 A61L27/56 A61L31/12 A61L31/14 A61M25/10 A61M29/00 B32B27/12 B32B3/00 (Advanced/Invention); A61B17/00 A61B17/08 A61B17/122 (Advanced/Non–invention); A61B17/00 A61B17/03 A61B17/12 A61F2/04 (Core/Invention); A61B (Subclass/Invention)

International class (IPC 1–7): A61B17/00 A61B17/08 A61B17/11 A61B17/12 A61D1/10 A61F2/01 A61F2/06 A61K31/12 A61L27/00 A61L27/48 A61L27/56 A61L31/14 A61M29/00 B32B27/12 B32B3/00

CPC: A61B17/12 A61L31/129 B32B27/12 A61B2017/00606 A61B17/122 A61B2017/00601 A61B2017/00632 A61B2017/00867 A61B2017/081 A61F2002/018 A61F2230/0006 A61F2230/0071 A61F2230/008 A61B17/12031 A61F2002/011 A61B17/12022 A61B2017/00575 A61B2017/00623 A61B2017/1205 A61B2017/12095 A61B2017/00628 A61B17/0057 A61B17/12122 A61B17/12136 A61B17/12172 A61B17/12186 A61B17/12195 A61B2017/00243 A61B2017/00557 A61B2017/00579 A61B2017/00592 A61B2017/00597 A61B2017/00615 A61B2017/00619 A61F2/01 A61F2230/0069 A61F2230/0076 A61M25/10 A61M2025/1054 A61M2210/125

European class: A61B17/00P A61B17/12 A61B17/12P A61B17/12P5H A61B17/12P7B A61B17/12P7W1 A61B17/12P7Z1 A61B17/12P7Z5 A61F2/01 A61L31/12D10 A61M25/10 B32B27/12 K61B17/00E1C K61B17/00N8 K61B17/00P5 K61B17/00P5B K61B17/00P5E K61B17/00P5F K61B17/00P5G K61B17/00P5H K61B17/00P5K K61B17/00P5L K61B17/00P5R K61B17/00P5W K61B17/00S12 K61B17/08A K61B17/122 K61B17/12P2 K61B17/12P2D K61M210/12B K61M25/10Z5

US class: 1/1 128/887 128/898 604/107 606/108 606/119 606/119P 606/142 606/151 606/151S 606/194 606/194P 606/195 606/198 606/200 606/200P 606/200S 606/213 606/213P 606/216 623/1.11 623/1.12 623/1.120P 623/11.1

Classification Explorer

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Abstract:
Source: US2002111647A Disclosed is an adjustable occlusion device for use in a body lumen such as the left atrial appendage. The occlusion device is removably carried by a deployment catheter. The device may be enlarged or reduced to facilitate optimal placement or removal. Methods are also disclosed.

0) US2009105722A – DEVICES AND METHODS FOR EMBOLUS REMOVAL DURING ...

2) Family number: 43179026 (US2009105722A) © PatBase

Title: DEVICES AND METHODS FOR EMBOLUS REMOVAL DURING ACUTE ISCHEMIC STROKE

Priority:

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Family:

Publication number	Publication date	Application number	Application date
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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 TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

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Classification Explorer

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Abstract:
Source: US2009105722A Devices, methods, and systems facilitate and enable treatment of ischemic stroke. More specifically, a tethered basket−like system operates in conjunction with a microcatheter system, to provide arterial support and capture emboli.

0) US2012089047A – CRYOABLATION APPARATUSES, SYSTEMS, AND METHODS ...

3) Family number: 50623646 (US2012089047A) © PatBase

Title: CRYOABLATION APPARATUSES, SYSTEMS, AND METHODS FOR RENAL NEUROMODULATION

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Probable Assignee: MEDTRONIC ARDIAN LUXEMBOURG

Assignee(s):(std)**:** ABOYTES MARIA ; ABOYTES MARIA G ; ALVARADO MARIO ; ARDIAN INC ; BUCKLEY NAOMI ; CHANG WILLIAM ; BEETEL ROBERT J ; BALLAKUR SOWMYA ; BEETEL ROBERT ; CLARK BENJAMIN ; HUGHES LUKE ; DONOVAN DANNY ; GELFAND MARK ; CLARK BENJAMIN C ; CUMMINS MICHAEL ; CLARK BENJAMIN J ; GOSHGARIAN JUSTIN ; COLE JUANITA SANCHEZ ; HERZFELD DAVID ; FRIEDRICHS PAUL ; COLE JAUNITA ; KELLY BRIAN ; LEUNG MARK S ; MCMULLEN CONOR ; KELLY GRACE ; KELLY JOHN ; KELLY GARY ; HUYNH TIM ; LEDWITH SEAMUS ; MCMULLIN GWENDA ; MAUCH KEVIN ; KU VINCENT ; MEDTRONIC ARDIAN LUXEMBOURG ; MEDTRONIC ADRIAN LUXEMBOURG S A R L ; MEDTRONC VASCULAR INC ; LEUNG MARK ; MEDTRONIC ADIAN LUXEMBOURG CO LTD ; MEDTRONIC AF LUXEMBOURG CO LTD ; MEDTRONIC AF LUXEMBOURG GMBH ; MEDTRONIC AF LUXEMBOURG S A R L ; NASH STEPHEN ; RYBA ERIC ; WOOLEY LANA ; MEDTRONIC ARDIAN LUXEMBOURG S A R L ; TUROVSKIY ROMAN ; NAGA KARUN ; ZARINS DENISE ; MEDTRONIC VASCULAR INC ; NAGA KARUN D ; MORIARTY MICHEAL ; SWEENEY FIACHRA ; TILOTTA VICENZO ; MULLINS BARRY ; PICCAGLI FRANCESCO ; TUROVSKIY MICHAEL ; MEDTRONIC ARDIAN LUXEMBOURG SARL ; ROTHMAN MARTIN ; RIVERA LEONILA ; SILVER MICHELE ; SOM SINA ; SHIN SUKYOUNG ; WU ANDREW ; SANCHEZ COLE JUANITA ; TILOTTA VINCENZO ; MORIARTY MICHAEL ; WOOLLEY LANA ; WOOD RONAN

Assignee(s): MEDTRONIC ARDIAN LUXEMBOURG RL SA ; MEDTRONIC ARIDAN LUXEMBOURG ; MEDTRONIC ARDIAN LUXEMBOURG SARI ; MEDTRONIC AF LUXEMBOURG CO ; MEDTRONIC ADIAN LUXEMBOURG CO ; MCMULLEN GWENDA ; MEDTRONIC ADRIAN LUXEMBOURG SARL ; COLE JAUNITA SANCHEZ

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GARY KELLY ; FIACHRA SWEENEY ; GEHRY KYRIE ; GELFAND MARK ; GOSHGARIAN JUSTIN ; GRACE CAREY ; GRACE KELLY ; GRACE KYRIE ; GWENDA MCMULLIN ; HERZFELD DAVID ; HUGHES LUKE ; JOHN CARAY ; JOHN KELLY ; JOHN KYRIE ; GUVINDER MIKEMARIN ; JOHNNYTASHAH KOHL ; JUSTIN ASJALIAN ; JUSTIN GAUSEGALLIEN ; JUSTIN GOSHGARIAN ; KELLY BRIAN ; KELLY GARY ; KELLY GRACE ; KELLY JOHN ; KEVIN MACH ; KEVIN MAUCH ; KU VINCENT ; LANA WOOLEY ; LANA WOOLLEY ; LEBA ERIC ; LEDWITH SEAMUS ; LEONILA RIVERA ; LEUNG MARK ; LEUNG MARK S ; LUKE HUGHES ; MARIA ALBERTS ; MARIA ARBERTS ; KARUN D NAGA ; MARIO ALVARADO ; MARK GELFAND ; MARK GELFOND ; MARK LEUNG ; MARK LIANG ; MCMULLIN GWENDA ; MICHAEL COMMINS ; MICHAEL CUMMINS ; MICHAEL MORIARTY ; MICHAEL SILVA ; MORIARTY MICHAEL ; MORIARTY MICHEAL ; MULLINS BARRY ; NAASH STEPHEN ; NAGA KARUN ; NAGA KARUN D ; NALA WOOLY ; MARTIN ROMAN ; MARTIN ROTHMAN ; MAUCH KEVIN ; MCMULLEN CONOR ; NAOMI BARKLEY ; NAOMI BUCKLEY ; NASH STEPHEN ; RIONILA RIVERA ; RIONILLA RIVERA ; RIVERA LEONILA ; ROBERT J BIT ; ROMAN TULOVSKI ; ROMAN TUROVSKIY ; ROTHMAN MARTIN ; RYBA ERIC ; SEAMUS LEDWITH ; SEAMUS RAIDERWES ; SEAMUS RAIDERWEX ; RONAN WOOD ; SHIN SUKYOUNG ; SHIYONG SHEN ; SILVER MICHELE ; SOM SINA ; STEFANO NASH ; SWEENEY FIACHRA ; TILOTTA VICENZO ; TILOTTA VINCENZO ; TIM HUANG ; TIM HUYNH ; TUROVSKIY MICHAEL ; TUROVSKIY ROMAN ; VINCENT KU ; VINCENZO DILOTA ; VINCENZO DILOTTA ; VINCENZO TILOTTA ; STEPHEN NASH ; WILLIAM CHANG ; WOOD RONAN ; WOOLEY LANA ; WOOLLEY LANA ; WU ANDREW ; ZARINS DENISE ; ZARINS DENNIS ; MULLLINS BARRY ; MICHAEL TUROVSKIY ; MICHAEL ; LANA WOOLY ; GURVINDER MIKE MAREE ; FRANCESCO PICCAGLI ; FRANCESCO PECAGERRY ; ERICK LEBA ; ERIC LEBA ; ERIC BARE ; DENNIS ZARINS ; SANCHEZ COLE JUANITA ; PICCAGLI FRANCESCO ; SANCHEZ COLE JAUNITA ; NA WOOLY ; HUYNH TIM ; WILLIAMS CHANG ; ROMAN TUROFSKI

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Agent(s): FB RICE; OYEN WIGGS GREEN AND MUTALA LLP; ZIMMERMANN AND PARTNER; ZIMMERMANN AND PARTNER PATENTANWAELTE MBB; HAYNES WILLIAM L; SPORER NICOLE C; BAKER THEODORE W; KOPCZYNSKI JEFFIE A; POLEDNA AARON J; KOPCZYNSKI JEFFIE

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 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 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

International class (IPC 8–9): A61B A61B17/00 A61B17/22 A61B17/34 A61B18/00 A61B18/02 A61B18/04 A61B18/08 A61B18/10 A61B18/12 A61B18/14 A61B18/18 A61B5/00 A61B5/026 A61B5/04 A61B5/05 A61F7/00 A61F7/12 A61L29/02 A61L29/04 A61M25/00 A61M25/01 A61M25/088 A61M25/09 A61M29/00 A61M31/00 A61N1/00 A61N1/04 A61N1/06 A61N1/18 A61N1/32 A61N1/36 A61N1/372 B65B3/04 C09K5/04 F17C5/02 (Advanced/Invention); A61B17/00 A61B18/00 A61B18/04 A61B18/08 A61B18/14 A61B18/18 A61F7/00 A61M25/00 A61M25/01 A61N1/06 A61N1/32 (Advanced/Non–invention); A61B (Subclass/Invention)

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European class: A61B18/02 A61B18/10 A61B18/12G A61B18/14V A61B18/14V2 K61B17/00C1M K61B17/00C1T4 K61B17/00S12 K61B17/22H2 K61B17/22H7B K61B18/00B14 K61B18/00B14A K61B18/00B14A10 K61B18/00B14A10A K61B18/00B14A10C K61B18/00B14A4 K61B18/00F10A K61B18/00F6C K61B18/00F7 K61B18/00G1 K61B18/00H10A K61B18/00H10T K61B18/00H12B K61B18/00H12B1 K61B18/00H12B4 K61B18/00H12B5 K61B18/00H12K K61B18/00H12R K61B18/00H2 K61B18/00H2A K61B18/00H4L K61B18/00H4U K61B18/02C K61B18/02H4 K61B18/02H4R K61B18/10 K61B18/12G K61B18/14C14 K61B18/14V K61M25/00R2 K61M25/01C10

US class: 1/1 53/425 600/300 600/300S 600/554 600/554P 606/21 606/21P 606/21S 606/22 606/22P 606/23 606/23P 606/23S 606/27 606/32 606/33 606/33 606/33P 606/34 606/41 606/41S 607/101 607/101S 607/104 607/105 607/105P 607/113 607/113S 607/3 607/3P 607/62 607/62S 607/99 607/99P

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Abstract:
Source: US2012089047A Catheter apparatuses, systems, and methods for cryogenically modulating neural structures of the renal plexus by intravascular access are disclosed herein. One aspect of the present application, for example, is directed to apparatuses, systems, and methods that incorporate a catheter treatment device

comprising an elongated shaft. The elongated shaft is sized and configured to deliver a cryo−applicator to a renal artery via an intravascular path. Cryogenic renal neuromodulation may be achieved via application of cryogenic temperatures to modulate neural fibers that contribute to renal function, or of vascular structures that feed or perfuse the neural fibers.

0) US2014260928A – METHODS OF USING NON–CYLINDRICAL MANDRELS

4) Family number: 56024119 (US2014260928A) © PatBase

Title: METHODS OF USING NON–CYLINDRICAL MANDRELS

Priority:

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WO14150288 A2	20140925	WO2014US22843	20140310	
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Assignee(s):(std)**:** INSERA THERAPEUTICS INC

Assignee(s): JANARDHAN VALLABH ; JANARDHAN VIKRAM

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Agent(s): FB RICE; GOWLING LAFLEUR HENDERSON LLP; CREASE DEVANAND JOHN; TACHIBANA KENJI; TANAKA JUNYA; KNOBBE MARTENS OLSON AND BEAR LLP; CHRISTENSEN MICHAEL R

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

International class (IPC 8–9): A61B17/00 A61B17/08 A61B17/12 A61B17/22 A61B17/221 A61B17/3205 A61B17/3207 A61B19/00 A61F2/00 A61F2/01 A61F2/06 A61F2/86 A61M A61M1/00 A61M25/00 A61M25/10 A61M29/00 A61M39/00 B23B47/18 B23K101/04 B23K26/00 B23K26/02 B23K26/06 B23K26/08 B23K26/10 B23K26/14 B23K26/16 B23K26/20 B23K26/38 B23K31/02 B23K37/047 B23P11/02 B23P13/04 B26F3/00 C22C1/00 D04C1/00 D04C1/06 D04C1/12 D04C3/40 E03B7/07 F27B9/06 F27D11/00 (Advanced/Invention); A61B17/00 A61B17/22 A61B19/00 A61F2/01 B23K101/04 C22F1/00 D06F75/00 (Advanced/Non–invention); A61M (Subclass/Invention)

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US class: 1/1 110/230 137/560 137/563 148/95 156/148 156/256 156/60 219/121.64 219/121.65 219/121.66 219/121.67 219/121.68 219/121.69 219/121.7 219/121.71 219/121.72 219/121.73 219/121.78 219/121.79 219/121.8 219/121.81 219/121.82 219/121.83 219/121.84 219/385 219/386 219/388 219/391 228/101 228/180.22 228/256 228/262.31 228/262.9 228/47.1 228/5.1 228/57 264/400 269/47 29/508 29/557 306/110 306/114 306/115 306/159 604/523 606/108 606/110 606/114 606/115 606/127 606/128 606/159 606/194 606/200 606/213 623/1.11 623/1.15 623/1.16 623/1.17 623/1.18 623/1.19 623/1.2 623/1.21 623/1.22 623/1.53 623/920 623/921 82/127 83/54 87/11 87/33 87/34 87/8 87/9

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Forward Citations: WO16154632, WO16125018, WO16118420, WO16109586, US9668890, US9655633, US9629635, US9597087, US9592068, US9504552, US9492174, US9468359, US9433427, US9358140, US9320624, US9314324, US9308123, US9295473,

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Abstract:
Source: US2014260928A Methods of forming a structure for treating a vessel include providing a mandrel and braiding a plurality of filaments around the mandrel. The mandrel may include a strand having a longitudinal axis and a plurality of balls coupled to the strand along the longitudinal axis. Pairs of the plurality of balls may be spaced along the longitudinal axis. Braiding the plurality of filaments around the mandrel may include, during braiding, forming a plurality of bulbs around the plurality of balls and forming necks between pairs of the plurality of balls. The methods may include, after braiding the plurality of filaments, heat treating (e.g., shape setting) the plurality of filaments on the mandrel. Portions of the braided plurality of filaments may be secured to the mandrel, for example using bangles, wire, and/or adhesive.

0) US2009182287A – LOCALIZATION OF BODY LUMEN JUNCTIONS

5) Family number: 41020919 (US2009182287A) © PatBase

Title: LOCALIZATION OF BODY LUMEN JUNCTIONS

Priority:

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Inventor(s): JOSE A NAVIA

Agent(s): GRIFFITH HACK; SPRUSON AND FERGUSON; SIM AND MCBURNEY; AIRD AND BERLIS IP PARTNERSHIP LTD; AIRD AND MCBURNEY LP; CROSTON DAVID ET AL; CROSTON DAVID; HOHGARDT MARTIN; ONO SHINJIRO; SHAMOTO ICHIO; KOBAYASHI YASUSHI; TOMITA HIROYUKI; CHIBA AKIO; KANDA FUJIHIRO; ICE MILLER LLP; STANFORD UNIV OFFICE OF TECHNOLOGY LICENSING BOZICEVIC FIELD AND FRANCIS LLP; HOWARD AND HOWARD ATTORNEYS PLLC; REICHEL IP LLP; KEVIN R; MARK C; NATALIE J; REICHEL STOHRY LLP; SHERWOOD PAMELA J; DUFF GREGORY A; DEAN NATALIE J; REICHEL MARK C; DEGRAZIA GREGORY D

ET AL; LYON WILLIAM R

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 QA RO RS RU RW 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

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Abstract:
Source: US2009182287A Devices, systems, and methods for the localization of body lumen junctions and other intraluminal structure are disclosed. Various embodiments permit clinicians to identify the locations of intraluminal structures and medical devices during non−surgical medical techniques, such as cardiac ablation, by determining the intralumen conductance and/or cross−sectional area at a plurality of locations within the body lumen.

0) US2005113853A – GUIDEWIRE FOR CROSSING OCCLUSIONS OR STENOSES

6) Family number: 31373665 (US2005113853A) © PatBase

Title: GUIDEWIRE FOR CROSSING OCCLUSIONS OR STENOSES

Priority:

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Family:

Publication number	Publication date	Application number	Application date
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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 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 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 YU ZA ZM ZW

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International class (IPC 1–7): A61B17/22 A61D1/02 A61M31/00

CPC: A61B17/22012 A61B17/32002 A61B2017/22094 A61M25/09 A61M25/09025 A61M2025/0042 A61M2025/0197 A61M2025/09175 A61M2025/09183 A61B17/50 A61B17/3421 A61B17/3207 A61B2017/22042 A61B2017/22077 A61B2017/003 A61B2017/22044 A61B2017/320004 A61B17/320725 A61B17/320783 A61B2017/320741 A61B17/320758 A61B2017/22069 A61B2017/320733

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Abstract:
Source: US2005113853A Systems and methods for crossing stenosis, partial occlusions, or complete occlusions within a body lumen. The systems generally include an elongate member such as a hollow guidewire that houses a rotatable and translatable drive shaft. The drive shaft typically has a distal portion that is advanced to create a path in the occlusive material that is large enough to allow the hollow guidewire to cross the occlusive material.

0) US2008047563A – INTRAUTERINE FALLOPIAN TUBE OCCLUSION DEVICE

7) Family number: 33276956 (US2008047563A)

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Title: INTRAUTERINE FALLOPIAN TUBE OCCLUSION DEVICE

Priority:

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Family:

Publication number	Publication date	Application number	Application date
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Agent(s): PHILLIPS ORMONDE FITZPATRICK; CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD; MOFFAT AND CO; HALEY STEPHEN; GE EHRLICH 1995 LTD; WELSH AND FLAXMAN LLC; WELSH FLAXMAN AND GITLER LLC; FLAXMAN HOWARD N; FLAXMAN HOWARD N 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 QA RO RS RU 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 YU ZA ZM ZW

International class(IPC 8–9)**:** A61F A61F6/06 A61F6/12 A61F6/14 A61F6/18 A61F6/20 A61F6/22 B60R11/02 H04R1/02 H04R1/24 H04R1/32 H04R5/02 (Advanced/Invention);
A61F6/00 (Core/Invention);
A61F (Subclass/Invention)

CPC: A61F6/144 A61F6/225 H04R1/323 B60R11/0217 H04R1/026 H04R1/24 H04R5/02 H04R2499/13 A61F6/142 A61F6/18 A61F6/20

European class: A61F6/14B A61F6/18 A61F6/20

US class: 1/1 128/830 128/831 128/833 128/839 128/839S 128/840 128/840S

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Abstract:
Source: US2008047563A An occlusion device for actively occluding orifices of fallopian tubes includes a resilient body having an elongated member with a first end and a second end. The elongated member further includes a first leg ending with the first end of the elongated member, a second leg ending with the second end of the elongated member and a connection member positioned therebetween. A first orifice plug is secured at the first end of the elongated member and a second orifice plug is secured at the second end of the elongated member. The first and second orifice plugs are shaped and dimensioned to seat at the orifices of the fallopian tubes or within the fallopian tubes as the elongated member spreads outwardly with the first end and second end moving apart. A delivery device for delivery of medication or therapeutic agents to a uterine cavity is also disclosed.

0) US2002045855A – ROTATE TO ADVANCE CATHETERIZATION SYSTEM

8) Family number: 28183675 (US2002045855A) © PatBase

Title: ROTATE TO ADVANCE CATHETERIZATION SYSTEM

Priority:

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US19960505040 19960111 JP20140519707T 20120202 JP20160033624 20160224
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Family:

Publication number	Publication date	Application number	Application date
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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 QA RO RS RU RW 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 YU ZA ZM ZW

International class (IPC 8–9): A61B1/00 A61B1/005 A61B1/008 A61B1/01 A61B1/018 A61B1/04 A61B1/05 A61B1/06 A61B1/07 A61B1/12 A61B1/273 A61B1/307 A61B1/31 A61B1/313 A61B1/32 A61B17/00 A61B17/22 A61B17/94 A61B19/00 A61F2/00 A61F2/04 A61F2/06 A61F2/84 A61F2/94 A61F2/95 A61F7/12 A61M1/00 A61M25/00 A61M25/01 A61M25/06 A61M25/08 A61M25/092 A61M25/10 A61M25/14 A61M27/00 A61M29/00 A61M29/02 A61M31/00 A61M36/04 A61M39/00 A61M39/10 A61M5/00 A61M5/178 G02B23/24 (Advanced/Invention); A61B1/00 A61B1/015 A61B1/04 A61B1/273 A61B1/307 A61B17/00 A61B17/12 A61B17/34 A61B19/00 A61F2/95 A61M25/00 A61M25/01 A61M25/04 A61M25/08 A61M25/10 (Advanced/Non–invention); A61B1/00 A61B1/005 A61F2/82 A61M25/00 A61M27/00 A61M5/00 (Core/Invention)

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Abstract:
Source: US2002045855A A system of rotate−to−advance medical devices including catheters, dilators, occluders, stents, suprapubic catheters and camera introducers configured with external screw threads and depending substantially on rotation for means of advancement and emplacement in mammalian genitourinary and gastrointestinal passages and organs.

9) Family number: 51596421 (US2014012307A) © PatBase

Title: DETACHABLE METAL BALLOON DELIVERY DEVICE AND METHOD

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Family:

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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 QA RO RS RU RW 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

International class (IPC 8–9): A61B17/00 A61B17/03 A61B17/12 A61B17/22 A61F A61F2/02 A61F2/04 A61F2/06 A61F2/82 A61F2/94 A61F2/95 A61F2/958 A61L29/00 A61L31/00 A61M A61M25/01 A61M25/10 A61M25/16 A61M29/00 A61M29/02 (Advanced/Invention);
A61B17/00 (Advanced/Non–invention);
A61F A61M (Subclass/Invention)

CPC: A61M25/1029 A61F2/958 A61B17/12136 A61B17/12172 A61B17/3415 A61B2017/00004 A61B2017/00849 A61B2017/00884 A61B2017/22038 A61B2217/007 A61F2/06 A61B17/12113 A61B17/1214 A61B17/12177 A61B17/12181 A61B2017/00867 A61B2017/12077 A61B17/12186 A61B2017/00349 A61B2017/00929 A61B2017/00995 A61B2090/3966 A61B17/12031 A61B17/12109 A61B17/12131 A61B2017/00526

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Forward Citations: WO16154634, WO16044647, WO15176159, WO15166013, WO15038947, WO14146001, US9579427, US9572698, US9572697, US9358140, US9326774, US8900304, US2014142620, US2014018838, US2014012363, JP2014509881, JP2014506809, EP3092956, EP2967811, CN105392447, CN105213076, CN104835148,

Abstract:
Source: US2014012307A A medical device comprising a compressed, inflatable, detachable single−lobed metal balloon attached to a catheter and methods of use for occluding blood vessels or treating vascular aneurysms are disclosed. The balloon can be made with ductile metals such as gold, platinum, or silver so that the balloon will conform to the shape of the void space during inflation and so that the balloon can be subsequently shaped by the application of an external force. The balloon can be configured such that it can be detached from the catheter by physical means or by electrolysis. The surface of the balloon can be configured to promote the growth of tissue into the wall of the balloon and to release drugs or pharmacologically active molecules, so that vessel occlusion or the sealing of an aneurysm will be maintained over time.

10) Family number: 42256592 (US2002120276A) © PatBase

Title: FILAMENTOUS EMBOLIC DEVICE WITH EXPANSILE ELEMENTS

Priority:

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AU20080207620	20080829	AU20020344223	20020529	AU20060225285	20061006
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Family:

Publication number	Publication date	Application number	Application date
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Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN

SZ TD TG TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

International class (IPC 8–9): A61B17/00 A61B17/08 A61B17/12 A61F2/02 A61F6/22 A61L29/00 A61L31/02 A61L31/04 A61L31/14 A61L31/18 A61M25/00 A61M29/00 A61M29/02 A61M31/00 B29C41/02 B29C70/74 (Advanced/Invention); A61B17/00 A61L29/00 A61L31/04 A61M25/00 (Advanced/Non–invention); A61B17/00 A61B17/12 A61L29/00 A61L31/02 A61L31/04 A61L31/14 A61M25/00 B29C70/00 (Core/Invention)

International class (IPC 1–7): A61B17/00 A61B17/12 A61F11/00 A61F2/06 A61L29/00 A61M25/00 A61M29/00 B29C70/74

CPC: A61B2017/00526 A61B2017/00867 A61L2430/36 B29C70/74 A61B17/12022 A61B17/12113 A61B17/12118 A61B17/12145 A61B17/1215 A61B17/12154 A61B17/12163 A61B17/1219 A61B2017/00004 A61B2017/1205 A61L31/022 A61L31/145 A61L31/18 B29L2031/7542

European class: A61B17/12P A61B17/12P5B1 A61B17/12P5B1S A61B17/12P7C1 A61B17/12P7C3 A61B17/12P7C5 A61B17/12P7S A61B17/12P7Z3 A61L31/02B A61L31/14F A61L31/18 B29C70/74 K61B17/00A K61B17/00M K61B17/12P2 K61L430/36 L29L31/7542

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Abstract:
Source: US2002120276A An embolization device includes one or more expansible, hydrophilic embolizing elements non−releasably carried along the length of a filamentous carrier that is preferably made of a very thin, highly flexible filament or microcoil of nickel/titanium alloy. At least one expansile embolizing element is non−releasably attached to the carrier. A first embodiment includes a plurality of embolizing elements fixed to the carrier at spaced−apart intervals along its length. In a second embodiment, an elongate, continuous, coaxial embolizing element is non−releasably i− fixed to the exterior surface of the carrier, extending along a substantial portion of the length of the carrier proximally from a distal tip. In either of the embodiments, the embolizing elements may be made of a hydrophilic, macroporous, polymeric, hydrogel foam material. In the second embodiment, the elongate embolizing element is preferably made of a porous, environmentally−sensitive, expansile hydrogel that expands, after a predetermined time delay, in response to a change in an environmental parameter, such as pH or temperature.

11) Family number: 50440446 (US2012046679A) © PatBase

Title: ATHERECTOMY CATHETERS WITH LONGITUDINALLY DISPLACEABLE DRIVE SHAFTS

Priority:

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Family:

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Assignee(s): AVINGER INC REDWOOD CITY ; AVINGERINC ; PDL BIOPHARMA INC ; CRG PARTNERS III CAYMAN LP ; CRG PARTNERS III LP ; CRG PARTNERS III PARALLEL FUND A LP ; CRG PARTNERS III PARALLEL FUND B CAYMAN LP

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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 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 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

International class (IPC 8–9): A61B1/00 A61B1/04 A61B1/07 A61B1/313 A61B17/00 A61B17/22 A61B17/221 A61B17/32 A61B17/3207 A61B17/34 A61B19/00 A61B34/20 A61B5/00 A61B5/02 A61B5/05 A61B6/00 A61B6/12 A61M25/01 A61M25/092 A61M25/10 (Advanced/Invention); A61B1/00 A61B17/00 A61B17/22 A61B19/00 A61B34/20 A61B5/00 A61B6/00 A61B6/08 A61B6/12 A61B8/08 A61B90/30 (Advanced/Non–invention)

CPC:

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European class: A61B1/00S4D A61B1/00S4H A61B1/313F A61B17/3207E A61B17/3207R K61B1/00S2 K61B19/52D4 K61B19/52H K61B6/12 K61B6/48L2 K61B8/08H2

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Abstract:
Source: US2012046679A Described herein are atherectomy catheters, systems and methods that include longitudinally displaceable drive shafts that drive actuation of one or more cutters at the distal end of the catheter. The catheters described herein may include one or more imaging sensors for imaging before, during or after cutting tissue. In some variations the imaging sensor may be rotated around the perimeter of the catheter independently of the rotation of the cutter. Also describe herein are imaging catheters that may be used without cutters.

12) Family number: 34107538 (US2007016272A) © PatBase

Title: SYSTEMS AND METHODS FOR TREATING A HOLLOW ANATOMICAL STRUCTURE

Priority:

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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 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 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 ZA ZM ZW

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International class (IPC 1–7): A61B19/00

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Abstract:
Source: US2007016272A A catheter includes multiple primary leads to deliver energy for ligating a hollow anatomical structure. Each of the primary leads includes a resistive element located at the working end of the catheter. Separation is maintained between the leads such that each lead can individually receive power. The catheter can include a lumen to accommodate a guide wire or to allow fluid delivery. Energy is applied until the diameter of the hollow anatomical structure is reduced to the point where occlusion is achieved. In one embodiment, a balloon is inflated to place the resistive elements into apposition with a hollow anatomical structure and to occlude the structure before the application of energy. The inflated balloon impairs blood flow and facilitates the infusion of saline, or medication, to the hollow anatomical structure in order to reduce the occurrence of coagulation and to improve the heating of the structure by the catheter.

13) Family number: 30115557 (US2002010480A) © PatBase

Title: Surgical suturing instrument and method of use

Priority:

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Inventor(s): JOHN T RICE ; BRETT GUYER ; DICARLO JOSEPH ; PUGSLEY ; JR CHARLES H ; FOGG DOUGLAS ; FIELD FREDERIC ; SANCOFF GREGORY

Agent(s): PHILLIPS ORMONDE FITZPATRICK; PIZZEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; SMART AND BIGGAR; MARK J PANDISCIO PANDISCIO AND PANDISCIO; WOLF GREENFIELD AND SACKS PC FEDERAL RESERVE PLAZA; JASON HONEYMAN WOLF GREENFIELD AND SACKS PC; WOLF GREENFIELD AND SACKS PC; WOLF GREENFIELD SACKS PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 NE NL NO NZ PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG UZ VN YU ZA ZM ZW

International class (IPC 8–9): A61B17/00 A61B17/04 A61B17/064 A61B17/068 A61B17/12 A61B17/28 A61B17/34 A61F2/08 A61L27/18 A61L27/24 A61L27/34 A61L27/38 A61L27/50 (Advanced/Invention); A61B17/00 A61B17/06 A61B17/068 A61B17/12 A61B17/28 A61F2/00 (Advanced/Non–invention); A61B17/04 A61B17/064 A61B17/068 A61B17/28 A61B17/34 (Core/Invention); A61B17/00 A61B17/06 A61B17/12 A61B17/28 A61F2/00 (Core/Non–invention)

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Abstract:
Source: US2002010480A A device is disclosed for introducing a flexible elongated element through at least two portions of a subject. In an embodiment, the device includes a proximal end and a distal end, as well as an advancement unit for longitudinally advancing the flexible elongated element toward the distal end such that a proximal end of the elongated element may pass from the distal end of said device with sufficient force to pass through the portions of the subject. The device also includes a securing unit for variably adjusting a securing force applied by the flexible elongated element to secure together the portions of the subject.

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Title: APPARATUS AND METHOD FOR CONNECTING A CONDUIT TO A HOLLOW ORGAN

Priority:
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Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; RIDOUT AND MAYBEE LLP; GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAEUSSER ANWALTSSOZIETAET; ENGELHARDT AND ENGELHARDT; DR YITZHAK HESS AND PARTNERS; TAKAHASHI HAYASHI AND PARTNER PATENT ATTORNEYS INC; NIXON PEABODY LLP; PANDISCIO AND PANDISCIO PC; PANDISCIO AND PANDISCIO; KAUFMAN MARC S; PANDISCIO MARK J

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 YU ZA ZM ZW

International class (IPC 8–9): A61B17/00 A61B17/02 A61B17/08 A61B17/11 A61B17/32 A61B17/3205 A61B17/34 A61F11/00 A61F2/06 A61M1/00 A61M1/10 A61M1/12 (Advanced/Invention); A61B17/00 (Advanced/Non–invention); A61B17/00 A61B17/03 A61B17/32 A61B17/34 A61F2/06 (Core/Invention); A61B (Subclass/Invention)

International class (IPC 1–7): A61B17/11 A61B17/32

CPC: A61B2017/0038 A61B17/34 A61B2017/00349 A61B2017/0061 A61B17/122 A61B17/1227 A61B2017/1135 A61F2/24 A61B2017/00243 A61B17/0218 A61B17/11 A61B2017/00247 A61B2017/00252 A61B2017/00557 A61B2017/0237 A61B2017/1107 A61B2018/00392 A61M1/1008 A61M2205/04 A61M2210/125 A61M2209/04 A61F2/064 A61B17/320016 A61M1/122 A61B17/32053 A61M1/101

European class: A61B17/02E A61B17/11 A61B17/3205G A61F2/06C K61B17/00E1C K61B17/00E1C2 K61B17/00E1C2B K61B17/00E5 K61B17/00F2T K61B17/00N8 K61B17/02H K61B17/11B K61B17/11P K61B17/122 K61B17/122S K61B17/12P2 K61B17/3205G K61B17/32E K61B18/00F6A8 K61F2/24

US class: 600/16 600/235 604/8 604/8P 606/108 606/108P 606/153 606/153P 606/153S 606/155 606/167 606/167P 606/180 606/180P 606/184 606/185 606/185P 623/1.35

Classification Explorer

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Forward Citations: WO17086891, WO15109328, WO15085094, WO14031995, WO14031995, WO13023016, WO11031364, WO11009122, WO11003019, WO09137530, WO09137530, WO09042816, WO09042816, WO09020941, WO08153872, WO08153872, WO07117612, WO07081418, USD594553, US9642993, US9610116, US9585991, US9572582, US9566443, US9566146, US9555177, US9532773, US9522016, US9504776, US9468515, US9463268, US9456812, US9440054, US9421310, US9364213, US9358371, US9345485, US9320875, US9308015, US9283314, US9282967, US9277995, US9271752, US9271734, US9232997, US9205236, US9199019, US9192374, US9144637, US9138228, US9132216, US9125648, US9089329, US9050419, US9044236, US9044221, US8968338, US8968310, US8961446, US8915958, US8905961, US8858489, US8845509, US8840538, US8827887, US8768487, US8758393, US8728153, US8728012, US8690816, US8679177, US8679138, US8579791, US8540616, US8465500, US8430836, US8414603, US8366651, US8333727, US8277465, US8235885, US8152845, US7892247, US7892246, US7846123, US7799041, US2015201962, US2015173734, US2015031959, US2014303657, US2014276532, US2014081305, US2013267885, US2013138102, US2012296358, US2011196408, US2011196191, US2011196190, US2011190697, US2011172684, US2011160850, US2011144690, US2011144680, US2011130619, US2011125256, US2011118833, US2011118829, US2011118766, US2011118764, US2011118763, US2011118651, US2011087063, US2011066170, US2011028985, US2010174297, US2010161040, US2010160939, US2010160847, US2010160832, US2010114301, US2010114293, US2010114292, US2010004501, US2009299389, US2009287183, US2009105729, US2009082778, US2008269662, US2007191874, US2007167968, US2007088375, US2007066943, US2006161193, US2006089707, JP2015186588, JP2009523034, EP2519188, EP2165665, EP2111243, CN104337553, AU2008262426,

Abstract:
Source: US2005251187A An apparatus and method for connecting a first conduit to the heart without the need for cardiopulmonary bypass. The first conduit may then be attached to a second conduit that has a prosthetic device interposed. The second conduit may be connected to the aorta prior to the first conduit being attached to the heart. The prosthetic device may be a prosthetic valve or a pump, for example. The apparatus of the present invention includes an implantable connector with first conduit component, a retractor expansion component, a coring component, and a pushing component. The retractor expansion component is slide−ably coupled to the coring component. The retractor expansion component serves to seat against and separate the inside apical wall of the left ventricle so that the coring component may cut cleanly through the myocardium to form a tissue plug without leaving any hanging attachments to the inside walls. By remaining seated against the inside wall, the retractor expansion component follows the tissue plug into the coring component. The surgeon applies force and rotary motion to the pushing component sufficient to cut the tissue plug and implant the prosthetic component.

0) US2011264229A – SACROILIAC JOINT FIXATION SYSTEM

15) Family number: 49290149 (US2011264229A) © PatBase

Title: SACROILIAC JOINT FIXATION SYSTEM

Priority:

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CN201180001537	20110113	AU20160204937	20160714	EP20110733183	20110113
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US20100335947P	20100113	JP20150042238	20150304	JP20120548960T	20110113
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WO2011US00070	20110113	WO2012US55892	20120918	WO2012US42823	20120615
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Family:

Publication number	Publication date	Application number	Application date
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WO13043584 A3	20130516	WO2012US55892	20120918	
WO14146018 A1	20140918	WO2014US30889	20140317	

Probable Assignee: JCBD LLC

Assignee(s):(std)**:** DONNER CHRISTOPHER THOMAS ; DONNER EDWARD JEFFREY ; JCBD LLC

Inventor(s):(std)**:** DONNER CHRISTOPHER THOMAS ; DONNER EDWARD JEFFREY ; EDWARD JEFFREY DONNER ; JEFFREY DONNER EDWARD ; RAYMOND SPANKY ALLEN

Agent(s): SPRUSON AND FERGUSON; SMART AND BIGGAR; WILLIAMS GARETH OWEN; DURAN CARLOS; REINHOLD COHN AND PARTNERS; JOSHUA J; SAMUEL WADE; POLSINELLI PC; MILES CRAIG R; JOHNSON SAMUEL WADE ET AL; MCCAY MICHAEL 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

International class (IPC 8–9): A61B17/00 A61B17/02 A61B17/16 A61B17/17 A61B17/58 A61B17/68 A61B17/70 A61B17/80 A61B17/84 A61B17/86 A61B17/90 A61B17/92 A61F A61F2/28 A61F2/30 A61F2/32 A61F2/44 A61F2/46 (Advanced/Invention); A61B17/00 A61B17/02 A61B17/17 A61B17/70 A61B17/86 (Advanced/Non–invention); A61F (Subclass/Invention)

CPC: A61F2/44 A61B17/7074 A61F2002/30382 A61F2002/304 A61F2002/30401 A61F2002/30428 A61F2002/30484 A61F2002/30504 A61F2002/30509 A61F2002/30579 A61F2002/30601 A61F2002/30774 A61F2002/30828 A61B17/844 A61F2002/3055 A61F2002/4623 A61B17/1739 A61B17/0218 A61F2002/30433 A61B2017/0225 A61F2002/4622 B33Y80/00 A61B17/1626 A61B17/68 A61B17/025 A61B17/1757

A61B17/7035 A61B17/7043 A61B17/7044 A61B17/863 A61B17/8645 A61B2017/0046 A61F2/4455 A61F2/4611 A61F2002/30163 A61F2002/4687 A61F2310/00017 A61F2310/00023 A61F2310/00179 A61F2310/00359 A61B17/7055 A61F2/30988 A61F2002/30387 A61F2002/30622 A61F2002/30642 A61F2002/30879 A61F2002/30883 A61F2002/30995

European class: A61B17/17S A61B17/70 A61F2/30Y K61B17/02J K61B17/70B7 K61F2/30A4F K61F2/30Y3

US class: 1/1 606/246 606/281 606/286 606/99 623/17.11 623/17.110P 623/18.11 623/18.110P

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Abstract:
Source: US2011264229A A sacroiliac joint fixation fusion system that provides a method of fixation and fusion of the sacroiliac joint and a sacroiliac joint implant which upon placement within the articular region of the sacroiliac joint facilitates stability and fusion of the sacroiliac joint.

0) US2006241675A – ENDOLUMINAL FILTER

16) Family number: 33111118 (US2006241675A) © PatBase

Title: ENDOLUMINAL FILTER

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Probable Assignee: VOLCANO CORP

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Assignee(s): PHILIPS KONINKLL NV

Inventor(s):(std)**:** ARKO FRANK ; ELKINS JEFF ; FOGARTY THOMAS ; FOGARTY THOMAS J ; JOHNSON ERIC ; PHILLIPS JASON ; SEERY MARTIN ; THOMAS FAGARTY ; THOMAS FOGARTY ; STIGALL JEREMY ; PHILIPS JASON ; MARTIN SEERY ; JEFF ELKINS ; FRANK ARKO ; ERIC JOHNSON ; CRUX BIOMEDICAL INC

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; DEE IAN MARK; ONO SHINJIRO; SAKUMA SHIGERU; SHAMOTO ICHIO; KOBAYASHI YASUSHI; TOMITA HIROYUKI; CHIBA AKIO; YAMAMOTO OSAMU; TAKEUCHI SHIGEO; OHNUKI SHINSUKE; ITOH TADAHIKO; ITOH TADASHIGE; WILSON SONSINI GOODRICH AND ROSATI; SHAYGLENN LLP; SHAY GLENN LLP; THOMAS C; BROWN RUDNICK LLP; GLENN BENJAMIN W ET AL; STEFFEN THOMAS 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 YU ZA ZM ZW

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D01H7/02 (Core/Invention);
A61M29/00 (Core/Non–invention)

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European class: A61F2/01 A61N1/00 K61F2/01B K61F2/01M K61F250/00W5 K61M25/00R K61M25/00R1M16 K61M25/00R1M20 K61M25/00T10C

US class: 1/1 210/435 210/483 210/483S 210/487 210/487S 210/497.3 210/497.300S 210/499 424/423 424/423S 57/58.83 57/58.830P 604/500 606/200 606/200P

Classification Explorer

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Abstract:
Source: US2006241675A In one aspect, embodiments of the present invention provide a filter having a first structural member extending along and clockwise about an axis, a second structural member extending along and counter clockwise about the axis and a material capture structure extending between the first and the second structural members and across the axis. In one aspect, the structural members may be joined to form two ends. In yet another aspect, there is provided a filter having a first spiral shaped support member having an end; a second support member positioned to cross the first spiral support member and form a loop between the end and the place where the second support member crosses the first spiral support member; and a material capture structure extending across and secured to the loop.

17) Family number: 29367069 (US2003009125A) © PatBase

Title: ULTRASONIC DEVICES AND METHODS FOR ABLATING AND REMOVING OBSTRUCTIVE MATTER FROM ANATOMICAL PASSAGEWAYS AND BLOOD VESSELS

Priority:

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Probable Assignee: ADVANCED CARDIOVASCULAR SYSTEM

Assignee(s):(std)**:** ADVANCED CARDIOVASCULAR SYSTEMS INC ; BAXTER INT ; SONICSTAR INTERNATIONAL LTD ; SONICSTAR INT LTD ; SIEGEL ROBERT J ; ADVANCED CARDIOVASCULAR SYSTEM

Assignee(s): ADVANCED CARDIOVASCULAR SYSTEMS ; SONICSTAR INT ; CYBERSONICS INC ; FIFTH THIRD BANK ; MILLS TIMOTHY C ; NITA HENRY ; SONICSTAR INT LTD A CORP OF NY ; BAXTER INTERNATIONAL INC DEERFIELD ILL 60015 US ; CLEANING TECHNOLOGIES GROUP LLC ; PFLUEGER RUSSELL ; BOND GEOFFREY ; DE CASTRO EUGENE ; GESSWEIN DOUGLAS H ; PASSAFARO JAMES D ; BAXTER INT INC ; BAXTER INT INC A CORP OF DE ; BAXTER INT INC A CORP OF DELAWARE ; BAXTER INTERNATIONAL INC DEERFIELD ; BACICH STEVEN ; BAXTER INTERNATIONAL INC

Inventor(s):(std)**:** BACICH STEVEN ; BOND GEOFFREY ; DECASTRO EUGENE ; DE CASTRO EUGENE ; GESSWEIN DOUGLAS ; MILLS TIMOTHY C ; NITA HENRY ; GESSWEIN DOUGLAS H ; MILLS TIMOTHY ; PASSAFARO JAMES ; MILLS C ; PASSAFARO JAMES D ; SIEGEL ROBERT ; SIEGEL ROBERT J ; PFLUEGER RUSSELL ; SIEGEL J

Inventor(s): PFLUEGER RUSSELL LAGUNA NIGUEL CA 92677 US ; NITA HENRII ; NITA HENRY LAKE FOREST CA 92630 US ; FURUEGAA RATSUSERU

Agent(s): SIM AND MCBURNEY; FULWIDER PATTON LEE AND UTECHT LLP

Designated states: AT BE CA CH DE DK ES FR GB GR IE IT JP LI LU MC NL PT SE

International class (IPC 8–9): A61B17/22 A61B18/00 A61B18/24 A61M25/00 A61M25/10 A61N7/00 G10K11/24 (Advanced/Invention); A61B17/00 A61B17/32 A61B18/00 A61B18/12 A61B19/00 A61F2/00 A61M1/00 A61M29/02 A61M3/02 (Advanced/Non–invention); A61B17/22 A61B18/00 (Core/Invention); A61B17/00 A61B17/32 A61B18/00 A61B19/00 A61F2/00 A61M1/00 A61M3/00 (Core/Non–invention)

International class (IPC 1–7): A61B17/20 A61B17/22 A61B17/32 A61B17/36 A61B17/70 A61B18/00 A61M25/10 A61M29/02 A61M31/00 A61N7/00 G10K11/24

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European class: A61B17/22B2 A61B18/24B G10K11/24 K61B17/00C1T6 K61B17/00C2A K61B17/00C4C2 K61B17/00K K61B17/00S12 K61B17/00S4T K61B17/00V K61B17/22B2B K61B17/22B2B2S K61B17/22G K61B17/22G1 K61B17/22G2 K61B17/22S2 K61B17/3207R K61B17/32U2 K61B17/32U6 K61B18/00A2 K61B18/00A2E K61B18/12G K61B19/54 K61B217/00Q16 K61B217/00Q18 K61F2/30A1W20 K61F2/30A1W20B K61F2/30A1W20D6 K61F210/00D K61F210/00D2 K61F210/00D4F K61M1/00T K61M25/01M K61M25/10P K61M3/02H

US class: 128/24AA 128/662.03 128/662.06 128/898 600/459 600/466 601/2 601/3 601/4 604/22 604/22P 604/48 604/49 604/500 604/508 604/509 604/515 604/517 604/52 604/523 604/97.01 606/1 606/128 606/159 606/159S 606/169 606/171 606/41 607/122 607/97

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Abstract:
Source: US2003009125A Disclosed are methods and devices for removing obstructive matter from anatomical passageways, including the removal of obstructive matter from the cerebral vasculature, prostatic obstructions from the urinary tract and/or obstructive matter from the fallopian tubes.

0) US2005240146A – THROMBECTOMY AND SOFT DEBRIS REMOVAL DEVICE

18) Family number: 32362665 (US2005240146A) © PatBase

Title: THROMBECTOMY AND SOFT DEBRIS REMOVAL DEVICE

Priority: EP20050756109 20050427 US20040832830 20040427 US20070751443 20070521 US20070871908 20071012 WO2005US14637 20050427 WO2008US73171 20080814 US20100705332 20100212 US20140562014 20141205

Family:

Publication number	Publication date	Application number	Application date
AU2005237620 AA	20051110	AU20050237620	20050427
CA2565452 AA	20061010	CA20052565452	20050427
DE602005028106 D1	20110630	DE200560028106T	20050427
EP1747032 A2	20070131	EP20050756109	20050427
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US2005240146 AA	20051027	US20040832830	20040427
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US7976528 BB	20110712	US20100705332	20100212
US8920402 BB	20141230	US20070871908	20071012
WO05104781 A2	20051110	WO2005US14637	20050427
WO05104781 A3	20060330	WO2005US14637	20050427
WO09097008 A1	20090806	WO2008US73171	20080814

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Assignee(s):(std)**:** EBERHARDT MARK ; EBERHAROT MARK ; EBERHART MARK ; EVANS DOUGLAS G ; FISHER WILLIAM T ; NASH JOHN E ; WALTERS GREG ; SAURO DENNIS M ; KENSEY NASH CORP ; SPECTRANETICS CORP

Assignee(s): MIDCAP FINANCIAL TRUST AGENT AS ; SPECTRANETICS CORP COLORADO SPRINGS ; WELLS FARGO BANK NATIONAL ASSOCIATION

Inventor(s):(std)**:** EBERHAROT MARK ; EBERHART MARK ; EVANS DOUGLAS G ; FISHER WILLIAM T ; NASH JOHN E ; SAURO DENNIS M ; WALTERS GREG ; EBERHARDT MARK

Inventor(s): WALTERS GREG EXTON ; WILLIAM T FISHER ; SAURO DENNIS M GLENMOORE ; NASH JOHN E CHESTER SPRINGS ; SAURO DENNIS ; FISHER WILLIAM T SCHWENKSVILLE ; GREG WALTERS ; JOHN E NASH ; MARK EBERHART ; NASH JOHN ; FISHER WILLIAM ; DENNIS M SAURO ; EBERHART MARK ELVERSON ; EVANS DOUGLAS

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; ROGERS LAW OFFICE; RIDOUT AND MAYBEE LLP; ANDRAE WESTENDORP PATENTANWAELTE PARTNERSCHAFT; ANDRAE STEFFEN; EVENS PAUL JONATHAN; KENSEY NASH MARSH CREEK CORPORATE CENTER CORP; KENSEY NASH CORP; TOWNSEND AND TOWNSEND AND CREW LLP; HOGAN LOVELLS US LLP; SCOTT J; SCOTT; SHERIDAN ROSS PC; FAEGRE BAKER DANIELS LLP; GIBBY DARIN J

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 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 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 YU ZA ZM ZW

International class (IPC 8–9): A61B17/00 A61B17/20 A61B17/22 A61B17/32 A61B17/3207 A61M1/00 A61M25/00 A61M25/01 A61M25/09 A61M25/10 A61M25/14 A61M31/00 A61M37/00 (Advanced/Invention); A61B17/3207 A61F2/958 A61M25/00 (Advanced/Non–invention); A61B17/00 A61B17/22 A61M1/00 (Core/Invention)

International class (IPC 1–7): A61M1/00

CPC: A61B17/32037 A61B2017/00685 A61B2017/22039 A61B2017/22067 A61B2017/22084 A61M1/0058 A61M1/0066 A61M1/101 A61M25/0068 A61M25/0069 A61M25/007 A61M25/0082 A61M25/10 A61M2025/0177 A61M2025/0183 A61M2025/1052 A61B2217/005 A61B17/320783 A61B17/320758 A61B2017/320733 A61B2017/320741 A61B2017/320766

European class: A61B17/3203R A61B17/3207R A61B17/3207S A61M1/00K A61M1/00P A61M25/00T10 K61B17/00Q2 K61B17/22G1 K61B17/22H7B K61B17/22S2 K61B17/3207F K61B17/3207N K61B17/3207S K61M1/10C K61M25/00T10A K61M25/00T10C K61M25/00T40 K61M25/01K K61M25/01M K61M25/10 K61M25/10Z4

US class: 604/104 604/104S 604/118 604/118S 604/155 604/22 604/22P 604/35 604/35P 604/508 604/510 604/510P 604/523 606/159 606/159P

Classification Explorer

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Abstract:
Source: US2005240146A A device suitable for removing material from a living being is provided, featuring an infusate pump, and an aspiration pump, both powered by a motor. The aspiration pump and infusate pump preferably feature a helical pumping mechanism, and operate at a high rate of rotation, thereby ensuring adequate pumping performance and flexibility. Additionally, a narrow crossing profile is maintained, ensuring that the device may reach more tortuous regions of the vasculature.

0) US2003060755A – METHODS AND APPARATUS FOR TREATING BODY TISSUES...

19) Family number: 15303122 (US2003060755A) © PatBase

Title: METHODS AND APPARATUS FOR TREATING BODY TISSUES AND BODILY FLUID VESSELS

Priority: US19990397806 19990917 US20000705963 20001103 US20060433198 20060511 US20080336401 20081216 US20020272317 20021015 US20140495645 20140924 WO2000US23905 20000830 US20140509551 20141008

Family:

Publication number	Publication date	Application number	Application date
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EP1231976 A1	20020821	EP20000959665	20000830
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US7179250 BB	20070220	US20020272317	20021015
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WO07133959 A3	20081009	WO2007US68189	20070503

Probable Assignee: HEUSER RICHARD R

Assignee(s):(std)**:** HEUSER RICHARD R

Assignee(s): RICHARD R HEUSER

Inventor(s):(std)**:** HEUSER RICHARD R

Inventor(s): RICHARD R HEUSER

Agent(s): FETHERSTONHAUGH AND CO; KOLISCH HARTWELL PC

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

International class (IPC 8–9): A61B17/00 A61B17/12 A61B17/3203 A61B17/3207 A61B18/14 A61B18/18 A61B18/20 A61F2/958 A61K48/00 A61M25/10 A61M29/00 A61M31/00 A61M5/158 A61M5/178 (Advanced/Invention); A61K48/00 A61M29/00 A61M5/178 (Core/Invention)

International class (IPC 1–7): A61M29/00 A61M31/00

CPC: A61M25/1011 A61B17/00491 A61B17/0057 A61B2017/00557 A61B2017/00575 A61B17/3207 A61B18/18 A61M25/104 A61B17/12136 A61B17/32037 A61B17/3478 A61B18/1492 A61B2017/22042 A61B2017/22048 A61B2017/22094 A61B2018/00285 A61B2018/00422 A61M25/1002 A61M2025/1052 A61M5/158 A61B18/201 A61M2025/105 A61M2025/1063 A61M2205/054 A61B2017/00261 A61B2018/0041 A61M2210/12 A61M25/10 A61M25/0067 A61M25/007 A61M25/0084 A61M2025/0089

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US class: 604/103.01 604/103.010S 604/103.11 604/164.01 604/164.010S 604/500 604/506 604/508 604/508S 604/509 604/509P 604/907 604/96.01 604/96.010P 606/159 606/194 606/194S 606/33 606/41 606/41S

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Abstract:
Source: US2003060755A Methods for treating bodily tissues and fluid vessels are disclosed. According to a method of repairing a perforation in a bodily fluid vessel, a viscous, moldable substance is inserted into the vessel at the location of the perforation. A path is opened through the moldable substance to permit fluid flow through the vessel. According to a method of introducing a tissue−killing substance into a bodily fluid vessel, a catheter is provided that has a blocking mechanism configured to selectively block and unblock the vessel. The catheter also has a delivery system that is configured to introduce the tissue−killing substance into the vessel. The vessel is substantially blocked upstream of a selected tissue using the blocking mechanism. The tissue−killing substance is introduced into the vessel through the delivery system, and the vessel is unblocked when the tissue−killing substance has substantially traveled toward the selected tissue. According to a method of occluding a bodily fluid vessel, a catheter is provided that has a first passage. The first passage has an occlusion element housed therein. The catheter is positioned in the vessel, and the occlusion element is moved out of the passage and into the vessel to thereby occlude the vessel. A catheter is also disclosed that may be used with the above methods.

0) US2001031980A – CLOT CAPTURE COIL

20) Family number: 28172059 (US2001031980A) © PatBase

Title: CLOT CAPTURE COIL

Priority:

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WO1997US01807 19970131

Family:

Publication number	Publication date	Application number	Application date
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Inventor(s):	Y PIERRE GOBIN ; JEFFREY P WENSEL ; GOBIN Y
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Designated states:	AT AU BE CA CH DE DK ES FI FR GB GR IE IL IT JP LI LU MC NL PT SE
International class (IPC 8–9):	A61B17/00 A61B17/22 A61B17/221 A61B17/24 A61B18/04 A61F2/00 A61F2/01 (Advanced/Invention); A61B17/00 A61F2/00 (Advanced/Non–invention); A61B17/22 A61F2/01 (Core/Invention); A61B17/00 A61F2/00 (Core/Non–invention)
International class (IPC 1–7):	A61B17/22 A61F2/00 A61F2/01 A61M29/00
CPC:	A61B17/22 A61F2230/0006 A61F2230/0091 A61B17/221 A61B2017/00867 A61B2017/22034 A61B2017/2212 A61B2017/2215 A61B2017/2217 A61F2/01 A61F2002/016 A61F2002/30098 A61F2210/0033
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Abstract:
Source: US2001031980A A clot and foreign body removal device is described which comprises a catheter with at least one lumen. Located within the catheter is a clot capture coil that is connected to an insertion mandrel. In one embodiment, the clot capture coil is made out of a solid elastic or superelastic material which has shape memory, preferably nitinol. The elasticity or superelasticity of the coil allows it to be deformed within the catheter and to then reform its original coil configuration when the coil is moved outside of the catheter lumen. In another embodiment the coil is a biphasic coil which changes shape upon heating or passing an electric current. Once the coil configuration has been established, the coil can be used to ensnare and corkscrew a clot in a vessel. A clot is extracted from the vessel by moving the clot capture coil and catheter proximally until the clot can be removed or released into a different vessel that does not perfuse a critical organ. Foreign bodies are similarly captured by deploying the coil distal to the foreign body and moving the clot capture coil proximally until the foreign body is trapped within the coil. By removing the device from the body, the foreign material is also removed.

0) US2003167038A – OCCLUSION CATHETER FOR THE ASCENDING AORTA

21) Family number: 23208865 (US2003167038A) © PatBase

Title: Occlusion catheter for the ascending aorta

Priority: CA20012342597 20010403 JP19990283371 19991004 US20030715646 20031118 US20010846002 20010430 JP20010104525 20010403 JP20000158152 20000529

Family:

Publication number	Publication date	Application number	Application date
CA2342597 AA	20011129	CA20012342597	20010403
CA2342597 C	20100525	CA20012342597	20010403
DE60104482 D1	20040902	DE20016004482	20010403
DE60104482 T2	20050818	DE20016004482T	20010403
EP1159984 A1	20011205	EP20010108396	20010403
EP1159984 B1	20040728	EP20010108396	20010403
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JP2002052083 A2	20020219	JP20010104525	20010403
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US2003167038 AA	20030904	US20010846002	20010430
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US6679861 BB	20040120	US20010846002	20010430
US7041079 BB	20060509	US20030715646	20031118

Probable Assignee: VAYU KK

Assignee(s):(std)**:** BUAAYU KK ; VAYU KK ; VAYU NAGOYA SHI KK

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Inventor(s):(std)**:** KUMENO TAKASHI ; SHITSU RIYOUHEI ; TSUTSUI NOBUMASA ; YOZU RYOHEI

Agent(s): GOWLING LAFLEUR HENDERSON LLP; DAVIS AND BUJOLD PLLC

Designated states: DE FR GB IT NL

International class (IPC 8–9)**:** A61B17/12 A61F2/958 A61M1/36 A61M25/00 A61M25/04 A61M25/10 A61M29/00 A61M39/00 A61M39/10 (Advanced/Invention); A61B17/00 A61M25/00 A61M29/02 (Advanced/Non–invention); A61M25/00 (Core/Invention)

International class (IPC 1–7)**:** A61B17/12 A61M1/36 A61M25/00 A61M25/04 A61M25/10 A61M29/00 A61M39/00

CPC: A61B17/12109 A61B17/12136 A61B2017/00243 A61M25/0029 A61M25/003 A61M25/10 A61M25/1002 A61M2025/004 A61M2025/1052 A61M2025/1056 A61M2025/1095 A61M2025/1097 A61M2210/127 A61M25/0032

European class: A61B17/12P4 A61B17/12P5B A61B17/12P7B A61M25/00R1M6 A61M25/10 A61M25/10A K61B17/00E1C K61M210/12C K61M25/00R1M20 K61M25/00R1M4 K61M25/00R1M8 K61M25/10 K61M25/10Z23 K61M25/10Z24 K61M25/10Z4 K61M25/10Z6

US class: 604/101.01 604/101.010P 604/102.01 604/102.010P 604/102.02 604/103.07 604/103.070S 604/104 604/96.01 606/192 606/194

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Forward Citations: WO16158294, WO14107178, WO14022802, WO13111848, WO11161146, WO07129312, WO05011794, WO04012805, WO04012805, US9561035, US9474882, US9439758, US9332999, US9332998, US9308019, US9265938, US9237897, US9126035, US9060802, US8961494, US8870813, US8784471, US8636712, US8636670,

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Abstract:
Source: US2003167038A An occlusion catheter for the ascending aorta capable of obstructing the blood flow within the ascending aorta without inserting through the femoral artery. The occlusion catheter is provided with a drug release aperture formed in the region, which is closer to the proximal end of the catheter tube than a balloon on the outer circumference of the distal end and which is to be located in the vicinity of the coronary ostium when the balloon is placed within the ascending aorta. The present occlusion catheter, when inserted directly into the ascending aorta in the vicinity of the heart to obstruct the blood flow therewithin, enables delivery of a cardiac muscle protective drug to the vicinity of the coronary ostium without inserting the occlusion catheter through the femoral artery in the conventional manner.

0) US2002032391A – GUIDEWIRE FOR PRECISION CATHETER POSITIONING

22) Family number: 28851279 (US2002032391A) © PatBase

Title: GUIDEWIRE FOR PRECISION CATHETER POSITIONING

Priority: US19960966001 19961107 US19970966001 19971107 US19980099079P 19980904 US19980081614P 19980413 US19980081631P 19980413 US19980103447P 19981007 US19990389772 19990903 US19990289850 19990412 US20010930540 20010814 US19990289849 19990412 US20020057708 20020124 WO1998US23832 19981106 US19990417228 19991013 US19990290510 19990412 WO2000US28529 20001013 WO1999US20399 19990903 WO1999US07977 19990412

Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: MCFANN TIMOTHY B

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Assignee(s): MUSKIVITCH JOHN C ; PASSAFARO JAMES D ; ROGERS LARRY ; PATTERSON GREG R ; KUPIECKI DAVID J ; MAH KATHY M

Inventor(s):(std)**:** DAVID J KUPIECKI ; HUYNH JOAN ; JAMES D PASSAFARO ; JOHN C MUSKIVITCH ; KATHY M MAH ; KUPIECKI DAVID J ; MAH KATHY M ; MC FANN TIMOTHY B ; MCFANN TIMOTHY B ; MUSKIVITCH JOHN C ; PASSAFARO JAMES D ; PASSFARO JAMES D ; PATTERSON GREG R ; PERKINS ROGER W ; ROGERS LARRY ; ROGERS LARRY B ; RONALD G WILLIAMS ; TIMOTHY B MCFANN ; WILLIAMS RONALD G

Agent(s): FETHERSTONHAUGH AND CO

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN 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 NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

International class (IPC 8–9): A61B17/00 A61B17/22 A61B17/32 A61B19/00 A61B5/00 A61F2/84 A61M25/00 A61M25/01 A61M25/09 A61M29/00 (Advanced/Invention);
A61B17/00 A61B17/22 A61B19/00 A61M25/01 A61M25/09 (Advanced/Non–invention);
A61B17/22 A61B17/32 A61F2/82 A61M25/01 A61M25/09 A61M29/00 (Core/Invention);

A61B17/00 A61B19/00 (Core/Non-invention)

International class (IPC 1-7): A61B17/22 A61B17/32 A61B5/00 A61M25/00 A61M25/01 A61M25/09 A61M29/02

CPC: A61M29/02 A61M2025/09108 A61B2017/320766 A61M2025/09141 A61M2025/09175 A61M2205/0266 A61B2017/00685 A61B50/30 A61B2050/314 A61B2090/064 A61B17/221 A61B17/320758 A61B2017/00867 A61B2017/22042 A61B2017/2217 A61M25/09 A61M2025/09083

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Abstract:
Source: US2002032391A The present invention comprises a guidewire having a compressible guide section capable of deflecting a catheter to abut a lumen wall. The compressible guide section exerts an outward radial force while it is at least partially compressed within a lumen. The guide section permits a physician to precisely locate a catheter within a body lumen and adjust a catheter tip orientation to be directed to a particular side of a body lumen. A method is disclosed for properly matching a guidewire and a catheter to operate together in the present invention, along with a force measuring instrument to assist in measuring a catheter's resistance force value. This method and systems of the present invention involve determining the exact force relationship between the compressible guide section and the resistance of the catheter in vitro.

0) US2006122638A – ANCHORING SCREW DEVICE

23) Family number: 31312114 (US2006122638A) © PatBase

Title: ANCHORING SCREW DEVICE

Priority: BE20030000074 20030428 EP20030816760 20030707 US20060554947 20060202 US20090556114 20090909 US20030554947 20030707 EP20030816761 20030722 WO2003BE00074 20030428 WO2003BE00126 20030722 WO2003BE00120 20030707 US20140161907 20140123

Family:

Publication number	Publication date	Application number	Application date
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AU2003254421 BB	20101223	AU20030254421	20030722
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Probable Assignee: DE WINTER ERWIN

Assignee(s):(std)**:** DE VINTER EHRVIN ; DE WINTER ERWIN ; ERWIN DE WINTER ; UMC UTRECHT HOLDING B V ; UMC UTRECHT HOLDING BV ; WINTER ERWIN DE

Inventor(s):(std)**:** BREMMER JOCHEM PAUL ; DE VINTER EHRVIN ; DE WINTER ERWIN ; ERWIN DE WINTER ; TULLEKEN CORNELIS ANTONIUS F ; WINTER ERWIN DE ; MANSVELT BECK HENDRICUS J

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Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 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

International class (IPC 8–9): A61B17/00 A61B17/064 A61B17/08 A61B17/11 A61B17/34 A61L31/00 A61M25/02 A61M25/04 A61M5/32 (Advanced/Invention);
A61B17/00 A61B17/34 (Advanced/Non–invention);
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A61B17/00 A61B17/34 (Core/Non–invention)

International class (IPC 1–7): A61B17/00 A61B17/064 A61B17/11 A61M25/02 H04L12/28

CPC: A61M25/04 A61B17/0057 A61B17/064 A61B17/11 A61B17/1114 A61B17/3415 A61B17/3423 A61B2017/00004 A61B2017/00867 A61B2017/0648 A61B2017/0649 A61B2017/1107 A61B2017/1135 A61B2017/1139 A61B2017/3488 A61M25/02 A61M39/0208 A61M39/04 A61M39/06 A61M2025/0286

European class: A61B17/00P A61B17/064 A61B17/11 A61B17/34E A61M25/02 A61M25/04 K61B17/00A K61B17/00S12 K61B17/064T2 K61B17/064V K61B17/11B K61B17/11D K61B17/11P K61B17/11Q K61B17/34G4A K61B17/34R2B4 K61M25/02H K61M39/02B K61M39/04 K61M39/06

US class: 604/174 604/174P 604/175 604/175P 606/143 606/151 606/153 606/153P

Classification Explorer

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Abstract:
Source: US2006122638A The present invention, the ASD, is a mechanical device for anchoring hollow tube–like structures in the human body, such as blood vessels and ureters. It facilates positioning needles or catheters in blood vessels and it prevents those from dropping out of the vessel or from "wandering off" in the vessel. The ASD can be used in every interventional medical situation for diagnostic or therapeutic purposes. The ASD is very easy to fix onto the vessel wall. Screwing is a fast technique saving operating time and requiring only basic microsurgical skills. The manufacturing is easy. It should be understood that the foregoing is illustrative and nor limiting, and that modifications may be made by those skilled in the art, without departing from the scope of the invention.

0) US2005049667A – SELF–ALIGNING STENT GRAFT DELIVERY SYSTEM, KIT,...

24) Family number: 43811633 (US2005049667A) © PatBase

Title: SELF–ALIGNING STENT GRAFT DELIVERY SYSTEM, KIT, AND METHOD

Priority:

AU20040270186	20040902	AU20100224344	20100920	AU20120200481	20120127
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International class (IPC 8–9)**:** A61F A61F11/00 A61F2/04 A61F2/06 A61F2/07 A61F2/66 A61F2/82 A61F2/84 A61F2/852 A61F2/86 A61F2/89 A61F2/90 A61F2/95 A61F2/962 A61F2/966 A61L31/00 A61M25/00 A61M25/01 A61M29/00 B01L3/02 B21F3/00 (Advanced/Invention); A61F2/06 A61F2/82 A61F2/848 A61F2/86 A61F2/89 A61F2/90 A61F2/915 A61F2/95 A61F2/962 A61F2/966 A61M25/00 (Advanced/Non–invention); A61F2/04 A61F2/06 A61F2/60 A61F2/82 A61L31/00 (Core/Invention); A61F (Subclass/Invention)

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Forward Citations: WO16181249, WO16172629, WO16125137, WO16049037, WO15167997, WO14188412, WO14188412, WO14172501, WO14172501, WO14158958, WO14149022, WO14130235, WO14093150, WO13162685, WO13154749, WO13154677, WO13118362, WO13118352, WO13074990, WO13074266, WO12128846, WO12067714, WO12051532, WO12051532, WO12026965, WO12026965, WO12006602, WO12006602, WO11156533, WO11156533, WO11139747, WO11133271, WO11126690, WO11056638, WO10129685, WO10120553, WO10120553, WO10105195, WO10042458, WO10042210, WO10024869, WO10014834, WO10008571, WO10005524, WO10005524, WO09140545, WO09140545, WO09134801, WO09128939, WO09124124, WO09102440, WO09023221, WO08102589, WO07092276, WO07082189, WO06135551, USD741992, US9655756, US9655712, US9649211, US9629644, US9615924, US9610181, US9603731, US9603730, US9603696, US9603600, US9602786, US9597485, US9597204, US9597182, US9592123, US9592112, US9585782, US9585743, US9585681, US9584777, US9566178, US9561124, US9561122, US9554929, US9549835, US9549818, US9545322, US9545309, US9545308, US9526642, US9526641, US9526638, US9504812, US9498364, US9498363, US9498239, US9486348, US9486341, US9480561, US9468517, US9456914, US9456910, US9452070, US9445929, US9440054, US9439795, US9439751, US9433766, US9433520, US9427339, US9427307, US9408952, US9408735, US9408734, US9408607, US9393021, US9387314, US9387101, US9387077, US9375337, US9375336, US9375327, US9375308, US9370422, US9364327, US9364314, US9351860, US9345603, US9345595, US9339385, US9339384, US9339197, US9333104, US9332993, US9332992, US9320632, US9320631, US9320590, US9314360, US9308349, US9308109, US9301864, US9301831, US9295568, US9254209, US9237960, US9233015, US9233014, US9226814, US9226813, US9220906, US9220620, US9220619, US9220617, US9220616, US9220613, US9204958, US9198786, US9198781, US9192500, US9180030, US9173756, US9173755, US9168164, US9168162,

US9161850, US9157174, US9155639, US9155619, US9149376, US9149358, US9144510, US9138335, US9125659, US9119716, US9114037, US9114001, US9101506, US9101457, US9095466, US9095463, US9084692, US9078660, US9060853, US9056000, US9050205, US9044221, US9039759, US9039597, US9017394, US9011527, US8998970, US8992595, US8992593, US8986341, US8981221, US8979892, US8961587, US8956397, US8951298, US8945203, US8942789, US8936634, US8926692, US8926686, US8920485, US8911488, US8911468, US8905961, US8882828, US8876877, US8870938, US8864811, US8858974, US8852271, US8845712, US8840659, US8827892, US8821565, US8814931, US8808350, US8802131, US8801774, US8790242, US8784468, US8778019, US8771333, US8764811, US8763222, US8753385, US8747448, US8740966, US8740963, US8740839, US8734481, US8728153, US8728148, US8728145, US8709068, US8709060, US8689728, US8676301, US8672995, US8672827, US8668668, US8663309, US8663305, US8652193, US8641749, US8636788, US8628564, US8623067, US8623064, US8617234, US8608792, US8603156, US8597346, US8585731, US8585730, US8574287, US8574284, US8562559, US8535707, US8529430, US8518052, US8506583, US8500795, US8500794, US8500792, US8500790, US8486131, US8475514, US8465536, US8449595, US8435282, US8398701, US8398537, US8394135, US8394119, US8388672, US8382825, US8377114, US8377113, US8337454, US8317856, US8308790, US8292943, US8287583, US8246671, US8202311, US8162975, US8128680, US8070790, US8062349, US8062345, US8043366, US8025635, US8007605, US7993383, US7976575, US7976455, US7909863, US7901525, US7824439, US7763063, US7615072, US7357812, US2016270901, US2015157445, US2014288627, US2014277347, US2014257457, US2014257362, US2014148895, US2014148890, US2014142680, US2014135907, US2014081375, US2014052238, US2013325099, US2013289703, US2013289698, US2013289690, US2013253567, US2013253347, US2013138206, US2013131775, US2013030519, US2012312595, US2012277847, US2012239142, US2012226341, US2012197376, US2012197284, US2012184971, US2012158115, US2012130479, US2012101563, US2012089003, US2011295216, US2011288626, US2011276119, US2011270377, US2011264202, US2011257720, US2011251675, US2011230954, US2011224774, US2011218609, US2011218607, US2011166637, US2011152992, US2011152763, US2011144690, US2011137403, US2011137402, US2011137401, US2011137400, US2011137396, US2011125249, US2011125244, US2011125091, US2011118821, US2011118816, US2011106133, US2011060397, US2011054585, US2011040366, US2011004237, US2010324647, US2010319836, US2010318181, US2010312326, US2010286757, US2010286725, US2010274350, US2010274340, US2010274227, US2010274187, US2010268317, US2010268315, US2010262168, US2010249907, US2010249902, US2010234932, US2010198328, US2010168835, US2010161026, US2010160847, US2010114291, US2010094394, US2010063575, US2010049297, US2010049294, US2010049293, US2010048987, US2010030318, US2010030255, US2009306763, US2009306624, US2009287290, US2009287183, US2009287182, US2009287040, US2009276027, US2009270967, US2009227945, US2009220571, US2009216308, US2009204198, US2009198179, US2009192586, US2009171437, US2009143850, US2009112237, US2009099637, US2009093870, US2009090299, US2009054723, US2009043373, US2009017090, US2008319254, US2008294234, US2008275542, US2008264102, US2008228205, US2008195191, US2008183274, US2008125845, US2008114441, US2008077226, US2008046067, US2008027529, US2007198078, US2007167955, US2007163668, US2007162101, US2007156223, US2007150051, US2007142894, US2007135889, US2007135818, US2007055362, US2007043420, US2007032816, US2007027526, US2007005094, US2006276872, US2006188408, US2006164680, US2006155366, US2006155363, US2006155358, US2006142836, US2006129224, US2005246008, US2005222664, US2005049674, US2005049673, US2005049667, RU2508079, JP2016144654, JP2015091413, JP2014514013, JP2014503293, JP2014138867, JP2013048778, JP2012524608, JP2012520153, JP2012516709, JP2012516218, JP2012050841, JP2011526802, JP2011517593, JP2011511693, JP2011511663, JP2011508625, JP2011505229, JP2010517703, JP2010233933, JP2009538185, JP2009525139, EP3146993, EP3009102, EP2942034, EP2832322, EP2818139, EP2801341, EP2745811, EP2717802, EP2306939, EP2263618, EP2263617, EP2259757, EP2259757, EP2218403, EP2111828, EP1920739, EP1887977, EP1813224, CN105943213, CN105943212, CN105943211, CN105943210, CN105744916, CN105530892, CN105517508, CN105310798, CN105121132, CN105025848, CN104706449, CN104622607, CN103784222, CN103784222, CN103635162, CN103635162, CN103561807, CN103561686, CN103561686, CN103479452, CN103402433, CN103402433, CN103298433, CN103110444, CN103083111, CN103083111, CN103037814, CN102961198, CN102917668, CN102917668, CN102905647, CN102905647, CN102843994, CN102413794, CN102076281, CN102014805, CN101415377, AU2015215940, AU2015215913, AU2015203704, AU2012203552, AU2011274392, AU2010202531, AU2009269146, AU2009215171, AU2007221171, AU2007212623,

Abstract:
Source: US2005049667A A delivery system and kit for endovascularly delivering a prosthesis along a guidewire to an curved implantation site includes a control handle having a handle body with a prosthesis movement control assembly movably disposed thereto. A proximal end of a catheter is connected to the control handle. A prosthesis delivery assembly is movably disposed in the catheter. The delivery assembly has a guidewire lumen slidably receiving therein the guidewire and having a curved distal end orienting the delivery assembly when passing through a curved vessel portion. A method for automatic endovascular alignment of the prosthesis includes loading it in the distal delivery assembly, positioning the guidewire into the curved implantation site, and threading the guidewire lumen over the guidewire with the delivery assembly and into the implantation site to at least approximately align the curved distal portion to a curve of the curved implantation site and, thereby, orient the prosthesis.

0) US2002032432A – TOOL FOR FACILITATING THE CONNECTING OF A CATHE...

25) Family number: 28261185 (US2002032432A) © PatBase

Title: Tool for facilitating the connecting of a catheter or other tubular member onto a guide–wire without access to the ends of the guide–wire

Priority: US20000523077 20000310 US20010861728 20010521 US20020230312 20020828 US20020252477 20020923 US20020477475 20020521 US20070928897 20071030 US20030352572 20030128 US20040927179 20040826 WO2001US07318 20010308 US20040477475 20040227 WO2002US16251 20020521

Family:

Publication number	Publication date	Application number	Application date
AT343409 E	20061115	AT20010918421T	20010308
AU2001245501 AA	20010924	AU20010245501	20010308
AU200145501 A5	20010924	AU20010045501	20010308
AU2002310058 AA	20021203	AU20020310058	20020521
CA2402137 AA	20020906	CA20012402137	20010308
CA2402137 C	20080520	CA20012402137	20010308
CA2447621 AA	20031118	CA20022447621	20020521
CA2447621 C	20081104	CA20022447621	20020521
DE60124086 D1	20061207	DE20016024086	20010308
DE60232973 D1	20090827	DE20026032973	20020521
EP1278570 A1	20030129	EP20010918421	20010308
EP1278570 B1	20061025	EP20010918421	20010308
EP1404402 A2	20040407	EP20020737098	20020521
EP1404402 B1	20090715	EP20020737098	20020521
JP2003526481 T2	20030909	JP20010566738T	20010308
JP2004527337 T2	20040909	JP20020591079T	20020521
JP3860033 B2	20061220	JP20010566738T	20010308
JP3983676 B2	20070926	JP20020591079T	20020521
US2002032432 AA	20020314	US20010861728	20010521
US2002198497 AA	20021226	US20020230312	20020828
US2003120213 AA	20030626	US20030352572	20030128
US2004133185 AA	20040708	US20040477475	20040227
US2005075647 AA	20050407	US20040927179	20040826
US2008051720 AA	20080228	US20070928897	20071030
US6517518 BB	20030211	US20010861728	20010521
US6569151 BA	20030527	US20000523077	20000310
US6869417 BA	20050322	US20020252477	20020923
US6872192 BB	20050329	US20020230312	20020828
US6926707 BB	20050809	US20030352572	20030128
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WO0168177 C2	20030306	WO2001US07318	20010308
WO02094364 A2	20021128	WO2002US16251	20020521
WO02094364 A3	20031030	WO2002US16251	20020521

Probable Assignee: KENSEY NASH CORP

Assignee(s):(std): CUNNINGHAM H MICHAEL ; EVANS DOUGLAS G ; FISHER WILLIAM T ; KENSEY NASH CORP ; NASH JOHN E ; PARIS MICHAEL ; SAURO DENNIS M ; SZABO DAVID ; WALTERS GREGORY

Assignee(s): CUNNINGHAM H ; WALTERS GREG

Inventor(s):(std)**:** EVANS DOUGLAS G ; FISHER T ; FISHER WILLIAM T ; GREGORY WALTERS ; JOHN E NASH ; MICHAEL PARIS ; NASH E ; NASH JOHN E ; PARIS MICHAEL ; SAURO DENNIS ; SAURO DENNIS M ; SZABO DAVID ; WALTERS GREG ; WALTERS GREGORY ; CUNNINGHAM H ; CUNNINGHAM H MICHAEL ; CUNNINGHAM MICHAEL ; DAVID SZABO ; DOUGLAS G EVANS

Inventor(s): EVANS DOUGLAS ; WILLIAM T FISHER ; H MICHAEL CUNNINGHAM ; NASH JOHN

Agent(s): RIDOUT AND MAYBEE LLP; MARCH GARY CLIFFORD; JEFFREY C KELLY ESQ KENSEY NASH CORP; CAESAR RIVISE BERNSTEIN COHEN AND POKOTILOW LTD; JEFFREY R

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

International class (IPC 8–9): A61M25/00 A61M25/01 A61M25/09 A61M25/16 A61M25/18 A61M29/02 A61M39/00 (Advanced/Invention); A61M29/02 (Advanced/Non–invention); A61M25/00 A61M25/01 A61M25/09 A61M25/16 A61M39/00 (Core/Invention); A61M29/02 (Core/Non–invention)

International class (IPC 1–7): A61F11/00 A61M25/00 A61M25/01 A61M25/16 A61M25/18 A61M39/00 A61M39/10 A61M5/178

CPC: A61M25/00 A61M25/0068 A61M25/007 A61M25/0074 A61M25/0169 A61M25/09041 A61M2025/0177 A61M2025/018 A61M2025/0186 A61M2025/09008 A61M2025/09125 A61M2025/1056 A61M2025/1095 A61M29/02 A61M2025/0183 A61M25/104

European class: A61M25/00 A61M25/00T10 A61M25/01B3 A61M25/01E A61M25/09C A61M25/10P A61M29/02 K61M25/00T10C K61M25/00T20 K61M25/01K K61M25/01L K61M25/01M K61M25/01N K61M25/09A K61M25/09C K61M25/09L K61M25/10Z23 K61M25/10Z6

US class: 604/103 604/158 604/160 604/160P 604/164.01 604/164.010P 604/164.02 604/164.1 604/165.01 604/165.010S 604/236 604/247 604/264 604/264S 604/30 604/533 604/533P 606/108 606/108P

Classification Explorer

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Forward Citations: WO14186633, WO12137139, WO11050085, WO11050085, WO10068739, WO08079835, WO07089891, WO07050977, WO07050977, WO07001543, WO06122038, WO05039681, WO04075788, WO04075788, WO04014472, WO04012604, USD761098, USD761097, USD678511, USD603044, USD571912, USD561896, USD541936, USD540468, US9592045, US9585686, US9526876, US9474546, US9408595, US9301825, US9238119, US9220395, US9216299, US9194512, US9131831, US9084558, US9005138, US8998969, US8951355, US8870755, US8827927, US8777841, US8774944, US8764631, US8753353, US8753352, US8747428, US8747300, US8702780, US8647256, US8608703, US8597300, US8574220, US8567657, US8523824, US8452421, US8435229, US8419680, US8414477, US8388759, US8388521, US8377041, US8366674, US8366638, US8343041, US8343040, US8317773, US8317678, US8308758, US8287585, US8267953, US8246752, US8235942, US8231550, US8206321, US8192355, US8167822, US8157766, US8147481, US8147427, US8137291, US8133190, US8088143, US8075497, US8048233, US8014849, US7951243, US7951092, US7905907, US7901367, US7862576, US7828751, US7811238, US7803107, US7798980, US7785275, US7758565, US7744588, US7731693, US7713261, US7637863, US7610912, US7569061, US7561924, US7244250, US7217246, US7186224, US7172577, US6872192, US6869417, US2014243854, US2014237798, US2014228808, US2013172821, US2013131549, US2013085468, US2012240378, US2012199060, US2012165854, US2011245809, US2011178370, US2011098798, US2011066194,

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Abstract:
Source: US2002032432A An attachment tool to facilitate the attachment of a catheter or similar elongated instrument to a guide−wire or other elongated guide member, without requiring access to either end of said wire or member. Said tool providing repeatable and reliable alignment of components to be attached, while being operated with a single hand. The tool further facilitates the attachment of a plurality of catheters or instruments to a single wire or member.

0) US2013312761A – ACUTE AND PERMANENT OCCLUSION DEVICE, DELIVERY ...

26) Family number: 55198998 (US2013312761A) © PatBase

Title: ACUTE AND PERMANENT OCCLUSION DEVICE, DELIVERY CATHETER AND METHOD

Priority: US20120478880 20120523 US20120566080 20120803

Family:

Publication number	Publication date	Application number	Application date
US2013312761 AA	20131128	US20120478880	20120523
US2013312762 AA	20131128	US20120566080	20120803
US9592148 BB	20170314	US20120478880	20120523
US9597223 BB	20170321	US20120566080	20120803

Probable Assignee: WIJAY BANDULA

Assignee(s):(std)**:** WIJAY BANDULA ; WIJAY NANDHIKA

Inventor(s):(std)**:** WIJAY BANDULA ; WIJAY NANDHIKA

Agent(s): STEVE

International class (IPC 8–9)**:** A61F6/22 (Advanced/Invention)

CPC: A61F6/225

US class: 128/831

Classification Explorer

Cited documents: US8747430 BB, US8443808 BB, US8100129 BB, US7846160 BB, US7819880 BB, US7749279 BB, US7736326 BB, US6629533 BA, US6588429 BA, US6357443 BA, US6251141 BA, US5935169 A, US5935137 A, US5893850 A, US5861043 A, US5746769 A, US5656036 A, US5601600 A, US5334137 A, US5287852 A, US4874139 A, US4733665 A, US4677967 A, US4246896 A, US4043338 A, US3675642 A, US2014163608 AA, US2011284009 AA, US2011174312 AA, US2010234878 AA, US2010163054 AA, US2009054723 AA, US2008135054 AA, US2003066533 AA,

Abstract:
Source: US2013312761A An endoluminal occluding device consisting of a conical–shaped structure which is attached to a threaded central tubular element is capable of occluding a body lumen immediately after placement. When deployed within a body lumen, such as a fallopian tube, the conical–shaped structure extends radially outward from the central tubular element, thereby acutely occluding the body lumen, and, in the case of the fallopian tubes, preventing conception. As the acute occlusion device is being implanted into a body lumen, it is rotated, as the screw threads, which embed into the body lumen wall, advance the device within the body lumen to the desired located. Once implanted and deployed into a body lumen, the acute occlusion device provides immediate occlusion of the body lumen. A proximal anchor prevents the endoluminal device from migrating into the body lumen once it has been deployed.

0) US2003097172A – NARROWING IMPLANT

27) Family number: 15957708 (US2003097172A) © PatBase

Title: NARROWING IMPLANT

Priority:

AU20010246781 20010327
CA20022769574 20021003
IL20020161278 20021003
IL20020153753 20021230
US20000534968 20000327
US20050170748 20050628
US20090603518 20091021
WO2002IL00805 20021003
WO2001IL00284 20010327
US20140506403 20141003
WO2003IL00996 20031125
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IL20020151931 20020925
IL20020151162 20020808
IL20040161278 20040404
US20070828591 20070726
US20090632762 20091207
WO2003IL00303 20030410
US20120674822 20121112
US20160152935 20160512
WO2003IL00659 20030807
IL20010145750 20011004
CA20142769574 20141117
IL20020152366 20021017
US20020239980 20020926
US20050186745 20050721
US20040491976 20041008
US20100789235 20100527
US20050524077 20050921
US20130026816 20130913
WO2001IL00284 20020927

Family:

Publication number	Publication date	Application number	Application date
AT426375 E	20090415	AT20030813970T	20031125
AT460141 E	20100315	AT20010919723T	20010327
AT471124 E	20100715	AT20020772791T	20021003
AU2001246781 AA	20011008	AU20010246781	20010327
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AU200146781 A5	20011008	AU20010046781	20010327
AU2002337598 AA	20030414	AU20020337598	20021003
AU2003219503 AA	20040225	AU20030219503	20030410
AU2003249559 AA	20040225	AU20030249559	20030807
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Abstract:
Source: US2003097172A A reducer implant for insertion in a blood vessel, for reducing an inner diameter of said vessel and flow therethrough, having at least one narrowed section having a first diameter; and at least one flared section having a diameter substantially greater than said first diameter. Optionally, the reducer is formed of a material and has a geometry that does not cause coagulation of blood in its vicinity.

28) Family number: 44432240 (US2010044102A) © PatBase

Title: METHODS AND APPARATUS FOR REMOVAL AND CONTROL OF MATERIAL IN LASER DRILLING OF A BOREHOLE

Priority:

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Family:

Publication number	Publication date	Application number	Application date
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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

International class (IPC 8–9): B01J19/12 B08B7/00 B08B9/02 B08B9/023 B08B9/027 B08B9/055 B23K26/00 B23K26/04 B23K26/06 B23K26/064 B23K26/073 B23K26/08 B23K26/10 B23K26/12 B23K26/122 B23K26/14 B23K26/16 B23K26/24 B23K26/352 B23K26/36 B23K26/38 B23K26/382 B23K26/40 B23K26/402 B23P11/00 B63B17/00 B63B35/28 B63C11/40 B63C11/44 B63C11/48 B63G8/00 B63G8/08 B65H55/00 B65H59/00 E01C23/08 E01C23/12 E02B17/00 E02D17/00 E21B10/00 E21B10/50 E21B10/54 E21B10/60 E21B17/00 E21B17/20 E21B19/00 E21B19/22 E21B21/00 E21B21/08 E21B21/10 E21B21/14 E21B21/16 E21B23/00 E21B23/14 E21B29/00 E21B29/02 E21B33/00 E21B33/06 E21B33/064 E21B33/12 E21B33/13 E21B37/00 E21B4/02 E21B4/04 E21B41/00 E21B41/04 E21B43/00 E21B43/11 E21B43/114 E21B43/119 E21B43/26 E21B43/267 E21B44/00 E21B47/00 E21B47/113 E21B47/12 E21B7/00 E21B7/14 E21B7/15 E21B7/16 E21C35/00 E21C37/16 E21C37/18 E21C41/00 E21D9/10 F21V15/01 F21V15/06 F21V29/00 F21V8/00 G01J1/04 G01M11/00 G01M5/00 G02B26/08 G02B27/14 G02B27/20 G02B6/02 G02B6/32 G02B6/36 G02B6/38 G02B6/42 G02B6/44 H01J27/24 H01J40/14 H01L21/00 H01L31/00 H01L31/055 H01S3/00 H01S3/04 H01S3/30 H01S5/024 H01S5/40 H02G1/08 H04B10/079 (Advanced/Invention); B08B7/00 B63B19/00 B63B21/00 B63B35/00 E02B17/00 E21B15/00 E21B43/00 E21B43/116 E21B49/00 E21B7/04 E21B7/15 G02B6/32 G02B6/38 G02B6/42 G02B6/50 (Advanced/Non–invention); B65H55/00 E21B17/00 E21B7/00 E21B7/14 G02B6/44 (Core/Invention)

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Abstract:
Source: US2010044102A There is provided a system, apparatus and methods for removal of material for the path of a laser beam during laser drilling of a borehole and for removal of displaced borehole material from the borehole during laser drilling. In particular, there are provided paths, dynamics and parameters of fluid flows, and apparatus for obtaining such, for use in conjunction with a laser bottom hole assembly.

29) Family number: 8716620 (US2002004680A) © PatBase

Title: ANTI–STENOTIC METHOD AND PRODUCT FOR OCCLUDED AND PARTIALLY OCCLUDED ARTERIES

Priority:

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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: ENDOVASCULAR INSTR INC

Assignee(s):(std)**:** PLAIA MARK ; MARK PLAIA ; EVI CORP ; ENDO VASCULAR INSTR INC ; ENDOVASCULAR INSTR INC

Assignee(s): ENDOVASCULAR INSTRUMENTS INC ; ENDO VASCULAR INSTRUMENTS INC ; EVI A CORP OF OREGON CORP ; NORDGREN GREGORY N ; EVI CORP PORTLAND OREG US ; KELLY THOMAS L ; SYNECTIC VENTURES I LLC ; SYNECTIC VENTURES II LLC ; SYNECTIC VENTURES III LLC ; REGER VINCENT A

Inventor(s):(std)**:** KELLY THOMAS ; KELLY THOMAS L ; NORDGREN GREGORY N ; PLAIA MARK ; REGER VINCENT ; REGER VINCENT A

Inventor(s): THOMAS L KELLY ; VINCENT A REGER ; MARK PLAIA ; NORDGREN GREGORY ; GREGORY N NORDGREN

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; CASSAN MACLEAN; LYNN G FOSTER

Designated states: AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IT JP KE KG KP KR KZ LI LK LR LT LU LV MC MD MG ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SI SK SN SU SZ TD TG TJ TT UA UG US UZ VN

International class (IPC 8–9): A61B17/00 A61B17/064 A61B17/22 A61B17/32 A61B17/3207 A61B17/3211 A61B18/24 A61B19/00 A61F2/06 A61F2/82 A61F2/84 A61F2/86 A61M25/00 A61M29/02 (Advanced/Invention); A61B17/00 A61B17/064 A61B17/22 A61B18/24 A61B19/00 A61F2/82 A61F2/86 A61M29/02 (Advanced/Non–invention); A61B17/22 A61F2/06 A61F2/82 (Core/Invention); A61B17/00 A61B17/064 A61B17/22 A61B18/20 A61B19/00 A61M29/02 (Core/Non–invention)

International class (IPC 1–7): A61B17/00 A61B17/22 A61B17/32 A61B19/00 A61F2/04 A61F2/06 A61M25/00 A61M29/00

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European class: A61B17/3207E A61B17/3207P A61B17/3207R A61F2/06 A61F2/06S2 A61F2/07 A61F2/95 A61F2/954 K61B17/00B K61B17/064 K61B17/22A2 K61B17/22B2 K61B17/22H K61B17/3207N K61B17/3207P K61B18/24B K61B19/46D K61F2/06D K61F2/06S2B K61F2/06S6 K61F2/07 K61F2/07C K61F2/848 K61F2/86 K61F2/958 K61M25/09T1 K61M25/10P

US class: 128/898 30/348 604/507 604/507P 606/127 606/127S 606/159 606/170 606/191 606/194 606/205 606/7 623/1 623/1.1 623/1.11 623/1.15 623/1.23 623/1.230P 623/1.36 623/1.360S 623/12 623/902 623/903 623/903S

Classification Explorer

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Abstract:
Source: US2002004680A Methods of artificially lining a vessel, especially an artery, of a medical patient to address the existence of a flow–inhibiting atheroma and to significantly alleviate the probability of restenosis, and the resulting products.

0) US5676346A – NEEDLELESS CONNECTOR VALVE

30) Family number: 31048127 (US5676346A) © PatBase

Title: NEEDLELESS CONNECTOR VALVE

Priority:

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US6243214 BA	20010605	US20000637002	20000814	

Probable Assignee: NIPPON KOGAKU KK

Assignee(s):(std)**:** ALARIS MEDICAL SYST INC ; ALARIS MEDICAL SYSTEMS ; ALARIS MEDICAL SYSTEMS INC ; ALARIS MEDICIAL SYSTEMS INC ; CARDINAL HEALTH 303 INC ; AIBATSUKU MEDICAL SYST INC ; IVAC CORP ; NIPPON KOGAKU KK

Assignee(s): LEINSING KARL R ; ALARIS MEDICAL SYSTEMS INC SAN DIEGO CALIF US ; NIKON CORP ; CAREFUSION 303 INC ; IVAC MEDICAL SYSTEMS INC ; ALARIS MEDICAL INC ; IVAC HOLDINGS INC ; BANKERS TRUST CO ; IISBC BANK USA ; CITICORP NORTH AMERICA INC ; ARARISU MEDEIKARU SHISUTEMUZU INC

Inventor(s):(std)**:** KAARU AARU RAINSHINGU ; KARL R LEINSING ; LEINSING KARL R ; LEINSING KARL ROBERT ; MIYAMOTO HIDENORI

Agent(s): GRIFFITH HACK; SMART AND BIGGAR

Designated states: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

International class (IPC 8–9): A61J1/00 A61J1/20 A61J3/00 A61M25/01 A61M37/00 A61M39/00 A61M39/02 A61M39/04 A61M39/10 A61M39/22 A61M39/26 A61M5/162 G02B7/02 G02B7/04 G02B7/10 (Advanced/Invention);
A61J3/00 A61M39/02 A61M39/04 A61M5/162 (Advanced/Non–invention);
A61J1/14 A61M25/01 A61M37/00 A61M39/00 A61M39/02 (Core/Invention);
A61M39/02 (Core/Non–invention);
A61M (Subclass/Invention)

International class (IPC 1–7): A61J1/20 A61M25/01 A61M31/00 A61M37/00 A61M39/00 A61M39/02 A61M39/04 A61M39/10 A61M39/22 A61M39/26 F16K37/28 F16K51/00 F16L37/28 G02B15/14 G02B7/02 G02B7/04

CPC: G02B7/10 Y10S604/905 A61J1/2096 A61M5/162 A61M5/1626 A61M39/045 A61M39/1011 A61M39/26 A61M2039/0036 A61M2039/1033 A61M2039/1066 A61M2039/1072 A61M2039/1077 A61M2039/1083 A61M2039/266 A61J1/201 A61J1/2037 A61J1/2044 A61J1/2055 A61J1/2058 A61M2039/267 A61M2039/0072

European class: A61J1/00M6 A61J1/20F A61M39/04B A61M39/10B A61M39/26 A61M5/162 G02B7/10 K61J1/20A2A K61J1/20A4E K61J1/20A4G K61J1/20A6B K61J1/20A6C K61M39/00S K61M39/04B K61M39/10B K61M39/10G K61M39/10U K61M39/10V K61M39/10W K61M39/10X K61M39/26 K61M39/26F K61M5/162B

US class: 251/149.1 251/149.6 359/699 359/700 359/704 604/256 604/905

Classification Explorer

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Forward Citations: WO9924090, WO9826835, WO9822178, WO17075507, WO17053098, WO16131495, WO15079371, WO15044835, WO15044834, WO15019343, WO14188372, WO14149566, WO13156994, WO13109586, WO12051257, WO12051257, WO12051248, WO11082370, WO11009885, WO10078651, WO10074871, WO10058806, WO09087572, WO08150671, WO08150671, WO05037362, WO04096113, WO04089436, WO04082756, WO04060466, WO04056417, WO04037337, WO04037337, WO03095017, WO03086528, WO03066152, WO03066152, WO03064907, WO03047681, WO03013646, WO03013646, WO0120218, WO0107102, WO0107102, WO0020070, USRE44639, USRE41448, USD786427, USD784528, USD767124, USD765837, USD757933, USD737436, USD734868, USD734456, USD720451, USD674088, USD669980, USD669578, USD657056, USD644731, USD641080, USD637713, USD634007, USD630732, USD582550, USD582033, USD571912, USD523956, USD506256, USD495416, USD482447, USD482121, USD468016, USD445182, US9649418, US9636492, US9623227, US9604184, US9604047, US9603985, US9597442, US9597028, US9592344, US9586036, US9568113, US9555179, US9554970, US9549700, US9545495, US9539379, US9535021, US9533137, US9517295, US9517026, US9511989, US9440060, US9433737, US9415200, US9408568, US9399116, US9393398, US9393353, US9380973, US9380972, US9366371, US9358379, US9339438, US9326717, US9309020, US9302090, US9302037, US9295764, US9283324, US9278206, US9278172, US9272082, US9259565, US9238129, US9220882, US9205243, US9198831, US9192753, US9186494, US9180257, US9168366, US9168203, US9162806, US9138572, US9132063, US9126029, US9126028, US9115708, US9114242, US9085399, US9072829, US9044585, US9039673, US9039672, US9028691, US8998875, US8992489, US8992189, US8992075, US8986277, US8985133, US8979792, US8973622, US8968261, US8926583, US8926294, US8926175, US8910919, US8905994, US8888470, US8876784, US8870850, US8870549, US8864725, US8852145, US8814839, US8808254, US8801678, US8790330, US8777909, US8777908, US8777058, US8764731, US8758306, US8757590, US8753325, US8752598, US8747387, US8740875, US8721884, US8721879, US8715217, US8690815, US8684994, US8684992, US8679090, US8657803, US8652104, US8647310, US8640725, US8636721, US8628516, US8628515, US8622985, US8613422, US8608723, US8597237, US8568371, US8562834, US8562583, US8556868, US8551067, US8545698, US8545475, US8540698, US8523838, US8522832, US8512308, US8506538, US8506533, US8499780, US8496643, US8491184, US8480646, US8480645, US8475416, US8469939, US8459292, US8454579, US8454059, US8444628, US8435210, US8425471, US8409441, US8403894, US8398607, US8393690, US8381776, US8357298, US8343113, US8337475, US8336587, US8328772,

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AU745441, AU743705, AU737266, AU2009327368, AU2004285367, AU2003299981, AU2003279959, AU2003217342, AU2003217342, AU2002359895,

Abstract:
Source: US5676346A A valve mechanism for a needleless connector employs a deformable piston having a piston head of elliptical cross−section with a marquise−shaped bore formed along its longitudinal axis wherein the major axes of the respective generally elliptical shapes are oriented perpendicular to one another. The piston head is captured within the connector housing and is reciprocal between a section of reduced diameter adjacent the connection port and a section of enlarged diameter. Constraining the piston head into the section of reduced diameter causes the elliptical bore to be squeezed shut while positioning the piston head in the section of enlarged diameter causes the piston head to relax and assume its natural elliptical shape, while the bore similarly regains its natural open shape to provide a fluid path therethrough. A compressible or extendible section affixed to the piston head serves to bias the piston into the section of reduced diameter. A tapered section of the piston contacts the housing to secure the top of the piston flush with the top of the housing for ease in cleaning.

0) US2008179764A – SHAPED PACKING ELEMENT

31) Family number: 42066463 (US2008179764A) © PatBase

Title: SHAPED PACKING ELEMENT

Priority: CA20082619248 20080125 US20070897507P 20070126 US20080010484 20080125 WO2008CA00167 20080125 US20110270731 20111011

Family:

Publication number	Publication date	Application number	Application date
AU2008209293 AA	20080731	AU20080209293	20080125
AU2008209293 BB	20120202	AU20080209293	20080125
BRPI0806907 A2	20140429	BR2008PI06907	20080125
CA2619248 AA	20080726	CA20082619248	20080125
CN101622064 A	20100106	CN200880003009	20080125
EP2107940 A1	20091014	EP20080706314	20080125
EP2107940 A4	20120125	EP20080706314	20080125
IN04867DN2009 A	20100910	IN2009DN04867	20090727
US2008179764 AA	20080731	US20080010484	20080125
US2012267805 AA	20121025	US20110270731	20111011
US8087644 BB	20120103	US20080010484	20080125
WO08089578 A1	20080731	WO2008CA00167	20080125

Probable Assignee: HAGGERTY KENNETH

Assignee(s):(std)**:** HAGGERTY KENNETH ; KENNETH HAGGERTY

Inventor(s):(std)**:** HAGGERTY KENNETH ; KENNETH HAGGERTY

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; GOWLING LAFLEUR HENDERSON LLP; BRAND THOMAS LOUIS; ESMAILI SHAHRZAD 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 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 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 ZA ZM ZW

International class (IPC 8–9): B01D67/00 B01D69/00 B01F3/04 B01J19/28 B01J19/32 B01J8/10 B29C53/04 B29C59/00 B31C13/00 B31C99/00 B31D5/00 B32B1/02 B32B3/12 B32B3/30 B65B43/10 (Advanced/Invention); B01D53/22 B01D63/02 (Advanced/Non–invention); B01D67/00 B01D69/00 B01F3/04 B01J19/28 B01J19/32 B01J8/08 B31C99/00 B31D5/00 B32B3/12 B65B43/00 (Core/Invention)

International class (IPC 1–7): B01J19/32 B31C13/00

CPC: Y10S261/72 B01D63/025 B01D2313/025 B01D2313/08 B01J19/32 B01D53/22 B01D63/02 B01J2219/32251 B01J2219/32279 B01J2219/32286 B01J2219/32408 B01J2219/32483 B01J2219/32491 B01J2219/3281 Y10T428/13 Y10T428/24149 Y10T428/24479

European class: B01D53/22 B01D63/02 B01J19/32 L01J219/322B12B L01J219/322D L01J219/322H L01J219/324D L01J219/324R L01J219/324S L01J219/328B

US class: 261/100 261/100S 261/104 261/108 261/83 261/83P 261/94 261/DIG.72 264/293 264/339 428/116 428/116S 428/156 428/34.1 53/396 53/396S

Classification Explorer

Cited documents: WO07030924 A1, WO04052796 A1, US7048855 BB, US6874769 BB, US6277340 BA, US6182950 BA, US6007915 A, US3466151 A, US2003116871 AA, GB1487210 A, BE893557 A2,

Forward Citations: US2008048066,

Abstract:
Source: US2008179764A The present invention provides a packing element comprising at least one sheet having a plurality of deformations, the sheet being operable to form a folded or helical configuration wherein adjacent portions of the at least one sheet are spaced to allow for flow of at least one of fluid, air and gas therebetween.

32) Family number: 43820451 (US2003009177A) © PatBase

Title: METHOD OF MANIPULATING MATTER IN A MAMMALIAN BODY

Priority:

EP19910920098	19911009	EP20000109072	19911009	EP20020023831	19911009
JP19900512977	19900816	JP19900512977	19900816	JP20010251687	19900816
US19900594768	19901009	US19900594769	19901009	US19900594871	19901009
US19900594873	19901009	US19900594874	19901009	US19890394463	19890816
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US19900608117	19901101	US19900608121	19901101	US19910656651	19910215
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Abstract:
Source: US2003009177A The invention provides a method of using an apparatus for manipulating matter in a confined or inaccessible space, comprising providing an apparatus having manipulator means at least partly constructed of one or more bent or twisted elongate shape memory alloy members having pseudoelasticity at the intended manipulation temperature, and a hollow housing or cannula capable of holding at least the shape memory alloy member(s) in a relatively straightened state, and actuating means for extending the shape memory alloy member(s) from the housing to manipulate matter within the space and for withdrawing the shape memory alloy member(s) into the housing, the arrangement being such that the shape−memory alloy member(s) bend(s) or twist(s) pseudoelastically in a lateral or helical sense to manipulate the matter on extending from the housing at the manipulation temperature, and become(s) relatively straightened on withdrawal into the housing at the temperature.

33) Family number: 30968864 (US2001007077A) © PatBase

Title: Vascular sheath with puncture site closure apparatus and methods of use

Priority:

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Publication number	Publication date	Application number	Application date
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EP1437096, EP1357840, EP1349501, EP1322230, CN105324083, CN102811672, CN102711631, AU2013201924, AU2002232508,

Abstract:
Source: US2001007077A Apparatus and methods are provided for use in sealing a vascular puncture site. The invention comprises an introducer sheath with an integrated closure component. The closure component includes an advanceable resilient spring clip with an expanded delivery configuration in which opposing sides do not contact one another, and an unstressed deployed configuration, in which opposing sides close towards one another. The clip is advanced along the sheath until it pierces opposing sides of a vessel wall at a puncture site. The sheath then is withdrawn, thereby causing the clip to resiliently return to its unstressed deployed configuration and draw opposing sides of the puncture together to seal the wound.

34) Family number: 32302428 (US2005226579A) © PatBase

Title: PHOTONIC CRYSTAL WAVEGUIDES AND SYSTEMS USING SUCH WAVEGUIDES

Priority:

US20040548098P 20040630 US20040560458P 20040408 US20040561020P 20040409
US20040584098P 20040630 US20040628462P 20041116 US20040640536P 20041230
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WO2005US12047 20050408 WO2005US11843 20050408

Family:

Publication number	Publication date	Application number	Application date
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Assignee(s): OMNIGUIDE COMMUNICATIONS INC ; OMNIGUIDE INC A MASSACHUSETTS CORP ; ROS ACQUISITION OFFSHORE LP ; KANN YELENA

Inventor(s):(std)**:** AA FINK YOEL FUFLYIGIN VLADIMI ; AHMAD ROKAN ; ANASTASSIOU CHARALAMBOS ; ANDERSON EMILIA G ; FARNSWORTH BARRY ; FINK YOEL ; DELLEMANN GREGOR ; FUFLYIGIN VLADIMIR ; GOELL JAMES ; JOHNSON STEVEN G ; KAHN YELENA ; KANN YELENA ; KOLODNY URI ; JACOBS STEVEN A ; MICETICH AARON ; PAYNE ROBERT ; PRIDEAUX PETER ; RUSK JESSE ; SHAPIRA GIL ; SHURGALIN MAX ; SKOROBOGATIY MAKSIM ; SOLJACIC MARIN ; TEMELKURAN BURAK ; TORRES DAVID ; ULU GOKHAN ; WANG TAIRAN ; WEISBERG ORI

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Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SMART AND BIGGAR; FISH AND RICHARDSON PC; GOODWIN PROCTER LLP; NATASHA C; DOUGLAS E

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

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Abstract:
Source: US2005226579A In general, in one aspect, the invention features a waveguide that includes a core extending along a waveguide axis and a confinement region surrounding the core. The confinement region includes a spiral portion and a non−spiral portion, wherein the spiral portion and the non−spiral portion extend along the waveguide axis.

0) US2010094270A – METHOD AND APPARATUS FOR TISSUE ABLATION

35) Family number: 44896416 (US2010094270A) © PatBase

Title: METHOD AND APPARATUS FOR TISSUE ABLATION

Priority:

CN200980148816	20091006	EP20090819726	20091006	US20090573944	20091006		
US20090573946	20091006	US20090573939	20091006	US20080102885P	20081006		
WO2009US59609	20091006	US20110493344P	20110603	US20120486980	20120601		
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Family:

Publication number	Publication date	Application number	Application date
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Assignee(s):(std)**:** JABS HARRY ; PARKS WILLIAM ; SHARMA VIRENDER K

Assignee(s): SANTA ANNA TECH LLC ; ENDOCHOICE

Inventor(s):(std)**:** JABS HARRY ; PARKS WILLIAM ; SHARMA VIRENDER K

Agent(s): WILSON ALAN STUART; O BRIEN LISA; THOM RUSSELL; MALONE LAURIS ELAINE; PATENTMETRIX; NOVEL IP; SONA; HAZIM; HAZIM ANSARI; ANSARI HAZIM; DALAL SONA

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

International class (IPC 8–9): A61B17/00 A61B17/24 A61B17/42 A61B18/00 A61B18/04 A61B18/08 A61B19/00 A61B5/00 A61B5/03 A61B5/107 A61B90/00 A61M25/01 A61M25/10 (Advanced/Invention); A61B17/00 A61B17/24 A61B17/42 A61B18/00 A61B5/00 A61B5/03 A61B5/107 A61B90/00 A61M25/10 (Advanced/Non–invention); A61B17/42 A61B18/04 A61M25/01 (Core/Invention)

CPC: A61B2018/00285 A61B2018/00488 A61B2018/00494 A61B2018/00541 A61B2018/00821 A61B5/03 A61B2017/00274 A61B2017/00818 A61B2018/00547 A61B2018/00559 A61B5/6853 A61B2017/00809 A61B2017/4216 A61B2018/00577 A61B2018/00642 A61B2018/00744 A61B2018/00791 A61B2018/048 A61B2090/064 A61B90/04 A61B5/1076 A61B17/24 A61B2017/00084 A61B2018/00773 A61M25/1011 A61M2205/3368 A61B17/3415 A61B2017/00269 A61B2017/32035 A61B2018/00982 A61B17/3203 A61B18/082 A61B18/1492 A61B90/30 A61B2018/00029 A61B2018/0022 A61B2018/141 A61B2018/1861 A61B2090/061 A61B2090/065 A61B2090/3784 A61B2218/002 A61B2218/007 A61B18/04 A61B2018/00023 A61B2018/00244 A61B2018/005 A61B2018/00863 A61B2090/3925 A61B2090/3966 A61B2018/00357 A61B2018/00839 A61B90/39

European class: A61B18/04 K61B17/00C1T K61B17/24 K61B18/04C4 K61B5/107J K61M205/33T K61M25/10D

US class: 604/523 604/523S 606/27 606/27P 606/30

Classification Explorer

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Forward Citations: WO16183475, WO16079340, WO14179775, WO14113724, WO14113724, WO13130655, WO12167213, WO12167213, WO12154647, US9662507, US9662060, US9630015, US9615875, US9610457, US9597480, US9583980, US9566456, US9564777, US9561068, US9561067, US9561066, US9526555, US9439707, US9433457, US9427556, US9345507, US9339516, US9326786, US9204889, US9198708, US9161801, US9113944, US9028417, US8900223, US8858549, US8801702, US8734380, US8632530, US8585692, US8579892, US8419723, US8388611, US8372065, US8322335, US2015282763, US2014324037, US2013267939, US2013204167, US2012202167, US2012136343, US2011238144, US2011160648, US2011077628, US2011059415, US2010292767, US2010286679, US2010179528, US2010179416, US2010145326, US2010145254, US2010114083, US2009149846, EP2945556, EP2713923, EP2713923, EP2265206, CN104822335, CN104821315, CN103747753,

Abstract:
Source: US2010094270A The present invention is directed toward a device that performs ablation of tissue. The device has a catheter with a shaft through which an ablative agent can travel, a first positioning element attached to the catheter shaft at a first position and a second positioning element attached to the catheter shaft at a second position. The shaft also has ports through which the ablative agent can be released.

36) Family number: 42996947 (US2002065489A) © PatBase

Title: SAFETY SYRINGE NEEDLE DEVICE WITH INTERCHANGEABLE AND RETRACTABLE NEEDLE PLATFORM

Priority:

US19880285012	19881214	US19890327344	19890322	US19910800849	19911129
US19890410318	19890921	US19900607127	19901003	US19910687108	19910418
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Family:

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Probable Assignee: INVIRO MEDICAL DEVICES INC

Assignee(s):(std)**:** FRASER ROSSLYN SHARP ; PATCO VENTURES LTD ; INVIRO MEDICAL DEVICES LTD ; NOVACEK LAUREL A ; PATCO VENTURES LIMITED ; MCLEAN DONALD A ; SHARP FRASER R ; SHARP FRASER ROSSLYN

Assignee(s): SOL MILLENNIUM MEDICAL HK LTD ; SOL MILLENNIUM MEDICAL INC ; INVIRO MEDICAL DEVICES LTD BRIDGETOWN ; INVIRO MEDICAL DEVICES LTD BRIDGETOWN BB ; LAUREL A NOVACEK ; INVIRO MEDICAL DEVICES INC ; INVIRO MEDICAL DEVICES LIMITED ; INBAIRO MEDEIKARU DEBAISHIZU LTD ; ASSET RECOVERY ASSOCIATES LLC ; CREDIT SUISSE ADMINISTRATIVE AGENT AS ; CREDIT SUISSE AS ADMINISTRATIVE AGENT ; DONALD A MCLEAN ; DR F ROSS SHARP LTD

Inventor(s):(std)**:** MC LEAN DONALD A ; MCCLEAN DONALD A ; MCLEAN DONALD ; MCLEAN DONALD A ; NOVACEK LAUREL ; NOVACEK LAUREL A ; SHARP FRASER ; SHARP FRASER R ; SHARP FRASER ROSSLYN

Inventor(s): SHARP FRASER ROSSLYN VANCOUVER BRITISH ; SHARP FRASER R VANCOUVER BRITISH COLUMBIA V6I ; NOVACEK LAUREL A VANCOUVER BRITISH COLUMBIA ; SHAAPU FURASAA ROSURIIN ; MCLEAN DONALD A VANCOUVER BRITISH COLUMBIA V6R ; NOBASEKU ROORERU EE ; DONALD A MCLEAN ; FRASER R SHARP ; FRASER ROSSLYN SHARP ; LAUREL A NOVACEK ; MATSUKURIIN DONARUDO EE

Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD; SMART AND BIGGAR; NIXON AND VANDERHYE PC; NIXON AND VANDERHYE

Designated states: AT AU BB BE BF BG BJ BR CA CF CG CH CI CM CS DE DK ES FI FR GA GB GN GR HU IT JP KP KR LI LK LU MC MG ML MN MR MW NL NO PL RO SD SE SN SU TD TG US

International class (IPC 8–9): A61L2/28 A61M5/00 A61M5/178 A61M5/31 A61M5/32 A61M5/34 A61M5/50 (Advanced/Invention); A61M5/00 A61M5/178 A61M5/31 A61M5/315 A61M5/34 (Advanced/Non–invention); A61L2/26 A61M5/178 A61M5/32 A61M5/50 (Core/Invention); A61M5/00 A61M5/31 A61M5/34 (Core/Non–invention)

International class (IPC 1–7): A61M5/00 A61M5/178 A61M5/32 A61M5/50

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European class: A61L2/28 A61M5/31C2 A61M5/31C3 A61M5/32B A61M5/32C2F A61M5/50H K61M205/58D K61M5/00P K61M5/315B1C2 K61M5/31A2 K61M5/31A3C K61M5/31A3D K61M5/31A6B K61M5/31A6C K61M5/31C1B K61M5/32C2F1D K61M5/32C2F1D2 K61M5/32C2F1K K61M5/32C4B K61M5/34E K61M5/50C2 K61M5/50H

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Abstract:
Source: US2002065489A The syringe includes a barrel, a plunger, and an adapter for mounting the needle in the distal end of the barrel. The adapter includes a protrusion projecting away from the needle end and into the barrel defining an annular space between the barrel and the protrusion. The plunger and protrusion have complementary surfaces whereby the plunger may grip the adapter for removal of the adapter into the interior of the barrel after use. These complementary surfaces afford initial resistance to further axial movement of the plunger toward the adapter, signalling the user that further axial pressure will permanently lock the plunger and adapter to one another whereby, upon application of full axial pressure on the plunger, the complementary surfaces of the plunger and adapter permanently lock to one another to enable joint unitary movement of the plunger and adapter together with the needle carried by the adapter into the barrel. The adapter includes vent passages communicating between the central passage through the adapter and the annular space whereby air can be vented from the barrel after receiving fluid within the barrel and prior to injection. Thus, the syringe may be oriented in a vertical position needle end uppermost with the vent passages forming the most superior portion of the barrel interior whereby air may be vented.

37) Family number: 33814190 (US2006265042A) © PatBase

Title: DEVICES, SYSTEMS AND METHODS FOR RETRACTING, LIFTING, COMPRESSING, SUPPORTING OR REPOSITIONING TISSUES OR ANATOMICAL STRUCTURES

Priority:

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Family:

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Assignee(s): NEOTRACT INC PLEASANTON ; CAPITAL ROYALTY PARTNERS II LP ; CAPITAL ROYALTY PARTNERS II PARALLEL FUND A LP ; PARALLEL INVESTMENT OPPORTUNITIES PARTNERS II LP

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Inventor(s): MERRICK DANIEL DUBLIN ; MAKOWER JOSHUA LOS ALTOS ; LAMSON THEODORE C PLEASANTON ; NAGPURKAR AMIK SAN FRANCISCO ; REDMOND RUSSELL J GOLETA ; WEST SCOTT H LIVERMORE ; VIDAL CLAUDE SANTA BARBARA ; WELCH JACQUELINE ; WALKE AMRISH ; VECCHIOTTI RICHARD G REDWOOD CITY ; VECCHIOTTI RICHARD ; COLLINSON MICHAEL GOLETA ; CATANESE III JOSEPH SAN LEANDRO ; REDMOND RUSSELL

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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 YU ZA ZM ZW

International class(IPC 8–9): A61B1/00 A61B1/307 A61B1/313 A61B17/00 A61B17/02 A61B17/03 A61B17/04 A61B17/06 A61B17/062 A61B17/08 A61B17/10 A61B17/12 A61B17/122 A61B17/128 A61B17/29 A61B17/32 A61B17/3205 A61B17/3209 A61B17/34 A61B17/42 A61B17/58 A61B18/14 A61B18/18 A61F2/00 A61F2/02 A61F2/04 A61F2/06 A61F2/26 A61F2/76 A61F2/78 A61F2/82 A61K31/137 A61K31/167 A61K31/4164 A61K31/445 A61K31/46 A61K31/728 A61K38/48 A61K39/08 A61M25/01 A61M25/06 A61M29/00 A61M29/02 A61M31/00 A61M37/00 A61M5/14 A61M5/158 A61M5/178 A61P21/00 (Advanced/Invention); A61B17/00 A61B17/02 A61B17/04 A61B17/06 A61B17/064 A61B17/068 A61B17/29

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Abstract:
Source: US2006265042A Devices, systems and methods for retracting, lifting, compressing, supporting or repositioning tissues, organs, anatomical structures, grafts or other structures within the body of human or animal subjects for the purpose of treating diseases or disorders and/or for cosmetic or reconstructive purposes and/or for research and development purposes or other purposes.

0) US2002091439A – GRAFT ASSEMBLY HAVING SUPPORT STRUCTURE

38) Family number: 30143807 (US2002091439A) © PatBase

Title: GRAFT ASSEMBLY HAVING SUPPORT STRUCTURE

Priority:

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Probable Assignee: LIFEPORT SCIENCES LLC

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Designated states: AL AM AT AU AZ BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IS IT JP KE KG KP KR KZ LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SN SZ TD TG TJ TM TR TT UA UG UZ VN

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International class (IPC 1–7): A61B17/00 A61B17/04 A61F2/00 A61F2/02 A61F2/04 A61F2/06 A61F2/46 A61F2/54 A61M25/00 A61M25/01 A61M25/10 A61M29/00 A61M29/02 A61M5/00

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US class: 128/331R 128/898 604/103.02 604/103.05 604/103.07 604/528 604/915 604/96 604/97.02 606/108 606/153 606/192 606/194 606/195 623/1 623/1.11 623/1.110P 623/1.12 623/1.13 623/1.14 623/1.140S 623/1.2 623/1.23 623/1.230P 623/1.230S 623/1.28 623/1.280S 623/1.34 623/1.36 623/1.360P 623/1.360S 623/11.4 623/12 623/123 623/13.6 623/23.31 623/66 623/903

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Abstract:
Source: US2002091439A A delivery catheter having an inner catheter assembly, an inferior capsule catheter, and a capsule jacket assembly for use in deploying a graft having a compressible and expandable attachment systems in the thoracic region of an aorta. The graft is comprised of a tubular member having superior and inferior ends, each having an attachment system with wall engaging members secured thereto and is crimped along its

midsection to resist kinking and elongation. The delivery catheter includes an inferior capsule assembly for releasably retaining the inferior attachment system of the graft and a superior capsule assembly for releasably retaining the superior attachment system of the graft as well as a releasing system for maintaining the attachment systems in a compressed configuration and for facilitating expansion of the attachment systems. The delivery catheter also includes an anti–elongation wire attached to the inner catheter assembly to prevent stretching of the delivery catheter during deployment of the graft within the aorta. Upon removing the attachment systems from the capsule, the releasing system functions to allow the attachment systems to assume their expanded configuration and engage the walls of the aorta. The graft and attachment systems remain in the vessel after the delivery catheter is withdrawn.

0) US2002151924A – CLOVER LEAF SHAPED TUBULAR MEDICAL DEVICE

39) Family number: 49834995 (US2002151924A) © PatBase

Title: CLOVER LEAF SHAPED TUBULAR MEDICAL DEVICE

Priority:

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Probable Assignee: SURGICAL SYSTEMS AND INSTRUMENTS INC

Assignee(s):(std)**:** HUSTED ROYCE HILL ; NEUROMEDICAL SYSTEMS INC ; SHIBER SAMUEL ; SAAJIKARU SYST AND INSUTOURUMENT ; BARD INC C R ; SURGICAL SYSTEMS AND INSTR INC ; SURGICAL SYSTEMS AND INSTR ; SURGICAL SYSTEM AND INSTR INC

Assignee(s): SURGICAL SYSTEMS AND INSTRUMENTS INC MUNDELEIN IL ; SURGICAL SYSTEMS AND INSTRUMENTS INC AN ILLINOIS C ; SURGICAL SYSTEMS AND INSTRUMENTS INC A CORP OF IL ; SURGICAL SYSTEMS AND INSTRUMENTS ; SURGICAL SYSTEMS AND INSTRUMENTS INC 529 KILLARNEY ; SHIBER SAMUEL MUNDELEIN ILL ; SHIBER SAMUEL WOBURN MASS ; SHIBER SAMUEL MUNDELEIN ILL US ; SHIBER SAMUEL BILLERICA MASS US ; SHIBER SAMUEL WOBURN MASS US ; SURGICAL SYSTEMS AND INSTRUMENTS INC AN ILLINOIS CORP ; SURGICAL SYSTEMS AND INSTRUMENTS INC 529 KILLARNEY MUNDELEIN IL 60060 AN ILLINOIS CORP ; SURGICAL SYSTEMS AND INSTRUMENTS INC 529 KILLARNEY MUNDELEIN IL 60060 A CORP OF IL ; SURGICAL SYSTEMS AND INSTRUMENTS INC MUNDELEIN IL A CORP OF IL ; SURGICAL SYSTEM AND INSTRUMENTS INC ; C R BARD INC ; HUSTED ROYCE H ; SHIBER SAMUEL ATKINSON N H US ; SHIBER SAMUEL ATKINSON NH ; SURGICAL SYSTEMS AND INSTRUMENTS INC ; SAMIYUERU SHIBAA ; SHIBER SAMUEL ATKINSON N H ; SAMYUERU SHIBAA ; SHIBER SAMUEL BILLERICA MASS ; SAAJIKARU SYST AND INSUTOURUMENTSU INC

Inventor(s):(std)**:** SHIBER SAMUEL ; HUSTED ROYCE H ; RUTENBERG MARK E ; SAMIYUERU SHIBAA

Inventor(s): SAMYUERU SHIBAA ; MARK E RUTENBERG ; AND PROCESS IMPLEMENTATION DEVICE ; SHIBER SAMUEL ATKINSON N H ; SHIBER SAMUEL ATKINSON NH ; SHIBER SAMUEL BILLERICA MASS ; SHIBER SAMUEL MUNDELEIN ILL ; SHIBER SAMUEL MUNDELEIN ILL US ; SHIBER SAMUEL WOBURN MASS

Agent(s): OGILVY RENAULT LLP SENCRL SRL; SWABEY OGILVY RENAULT; SAMUEL SHIBER; SAMUEL

Designated states: AT BE CH DE FR GB IT JP LU NL SE

International class (IPC 8–9)**:** A61B17/00 A61B17/22 A61B17/32 A61B17/3207 A61B17/3211 A61B18/08 A61B18/24 A61B5/00 A61B8/12 A61D1/02 A61M1/00 A61M23/00 A61M25/00 A61M25/01 A61M25/09 F16C1/02 F16D7/02 G06F15/18 G06K9/62 (Advanced/Invention); A61B17/00 A61B17/32 A61B19/00 A61M1/00 (Advanced/Non–invention); A61B17/00 A61B17/22 A61B17/32 A61B18/04 A61B18/20 A61B5/00 A61B8/12 A61D1/00 A61M1/00 A61M25/00 A61M25/01 A61M25/09 F16C1/00 F16D7/00 G06F15/18 G06K9/62 (Core/Invention); A61B17/00 A61B17/32 A61B19/00 A61M1/00 (Core/Non–invention)

International class (IPC 1–7)**:** A61B17/00 A61B17/14 A61B17/20 A61B17/22 A61B17/32 A61B18/08 A61B18/24 A61B5/00 A61D1/02 A61M1/00 A61M23/00 A61M25/00 A61M25/01 A61M25/09 A61M29/00 A61M29/02 F16C1/02 F16D7/02 G06F15/18 G06K9/62

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European class: A61B17/22B2 A61B17/3207 A61B17/3207R A61B17/3207S A61B18/08B A61B18/24B A61B8/12 A61M25/01 A61M25/09 F16C1/02 F16D7/02 K61B17/00N2 K61B17/00Q2 K61B17/00S4P K61B17/22A2 K61B17/22B2 K61B17/22G K61B17/22G3P K61B17/22G6 K61B17/22H1 K61B17/22S K61B17/3207F K61B17/3207R2 K61B17/32U4 K61B18/24 K61B18/24B K61B19/30B K61B19/52D4 K61B19/52H14 K61B19/52H14B2 K61B19/52H6 K61B19/54H K61B217/00Q16 K61M1/00H4 K61M1/00T K61M25/09

US class: 128/305 128/772 128/898 60/422 600/567 600/585 600/585P 604/103.07 604/103.08 604/22 604/267 604/280 604/510 604/53 604/540 604/95 604/95.01 606/108 606/159 606/159P 606/170 606/180 606/184 606/194 606/194P 606/22

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US2005216051, US2005212068, US2005209530, US2005203616, US2005203574, US2005203572, US2005203571, US2005203570, US2005192665, US2005192623, US2005192591, US2005182396, US2005177211, US2005177187, US2005177073, US2005177068, US2005171573, US2005159774, US2005159773, US2005159772, US2005154407, US2005149102, US2005149082, US2005148953, US2005143768, US2005143764, US2005137617, US2005137615, US2005131449, US2005126979, US2005125023, US2005124876, US2005119691, US2005119690, US2005119678, US2005119615, US2005113910, US2005113853, US2005104715, US2005102020, US2005101988, US2005101986, US2005101983, US2005101866, US2005096723, US2005096692, US2005096691, US2005090764, US2005055082, US2005049610, US2005043790, US2005033398, US2005033361, US2005033357, US2005033334, US2005033266, US2005027309, US2005021076, US2005015021, US2005004594, US2005004585, US2004267239, US2004255447, US2004254601, US2004249409, US2004249277, US2004243156, US2004236418, US2004236214, US2004230178, US2004230123, US2004225299, US2004225229, US2004220612, US2004220499, US2004219028, US2004215223, US2004210250, US2004210239, US2004210140, US2004204737, US2004199199, US2004199198, US2004193208, US2004193207, US2004193192, US2004189412, US2004186563, US2004186368, US2004181221, US2004167565, US2004167554, US2004167553, US2004164030, US2004158279, US2004158278, US2004158275, US2004158142, US2004147955, US2004138694, US2004138693, US2004131703, US2004127936, US2004127933, US2004127920, US2004122458, US2004116960, US2004116956, US2004116831, US2004106944, US2004102789, US2004098018, US2004097995, US2004093016, US2004092990, US2004092975, US2004087988, US2004087985, US2004082968, US2004082967, US2004082962, US2004078053, US2004073247, US2004073163, US2004064179, US2004059372, US2004059254, US2004044360, US2004044359, US2004039436, US2004039332, US2004034384, US2004019363, US2004015150, US2004010301, US2004006370, US2004006368, US2003229286, US2003225418, US2003220665, US2003219496, US2003216774, US2003216761, US2003216760, US2003216667, US2003208222, US2003208214, US2003208119, US2003195536, US2003195511, US2003195426, US2003191488, US2003191483, US2003187475, US2003187468, US2003187391, US2003187390, US2003186425, US2003181943, US2003176887, US2003176885, US2003163064, US2003153942, US2003149467, US2003135162, US2003125811, US2003120295, US2003114869, US2003109924, US2003100919, US2003100911, US2003097172, US2003093098, US2003083692, US2003083678, US2003078614, US2003078519, US2003074019, US2003069522, US2003060844, US2003060732, US2003045934, US2003037570, US2003028206, US2003028200, US2003020662, US2003018355, US2003018346, US2003014100, US2003009237, US2003009188, US2003009125, US2003004541, US2003004540, US2002188307, US2002188302, US2002183782, US2002173812, US2002165567, US2002165557, US2002161393, US2002161321, US2002151970, US2002151954, US2002138091, US2002138088, US2002138021, US2002103501, US2002095172, US2002095171, US2002095141, US2002091409, US2002091408, US2002091402, US2002087187, US2002082639, US2002082627, US2002082558, US2002065507, US2002058995, US2002052638, US2002045916, US2002045855, US2002029055, US2002022858, US2001044632, KR101518147, KR101495551, KR101212319, KR101212318, JP6101964, JP5855587, JP5115502, JP5001143, JP2016144681, JP2015509395, JP2014147815, JP2013520280, JP2013080730, JP2011529350, JP2011522635, JP2011500151, JP2010532211, JP2009189838, JP2009189835, JP2007533407, JP2007533407, JP2007503256, JP2007068970, JP2005533594, JP2005296078, JP2005270464, JP2004508096, FR2739293, FR2696924, FR2667238, EP3037050, EP3035876, EP2793978, EP2775945, EP2566405, EP2457518, EP2314329, EP2299916, EP2299916, EP2246078, EP2140818, EP2090250, EP2065002, EP2014244, EP1902745, EP1872729, EP1870044, EP1771222, EP1722694, EP1627611, EP1551273, EP1454649, EP1352614, EP1273268, EP1251892, EP1183990, EP1183990, EP1183990, EP1158910, EP1105184, EP1079874, EP1069869, EP1007927, EP0955933, EP0954248, EP0943292, EP0934727, EP0889252, EP0889252, EP0822785, EP0820728, EP0820727, EP0817595, EP0791336, EP0739603, EP0688190, EP0680730, EP0680730, EP0673233, EP0672386, EP0657140, EP0635242, EP0582533, EP0554616, EP0530296, EP0524764, EP0521595, EP0501772, EP0498476, EP0448859, EP0448859, EP0431743, EP0427368, EP0393834, EP0393834, EP0387980, EP0387451, EP0379786, EP0375381, EP0375381, EP0360791, EP0358825, EP0353087, EP0353087, EP0347098, EP0347098, DE19817979, DE102004047805, DE10049815, DE10049815, CN105310745, CN105073033, CN104586469, CN104159624, CN103721337, CN103721337, CN103002931, CN101843933, AU721703, AU699965, AU697562, AU681846, AU653531, AU652902, AU630419, AU2012221758, AU2005240023,

Abstract:
Source: US2002151924A A hydraulically expandable medical device for insertion into an obstruction in a blood vessel, comprising a hydraulically expandable tube having a clover leaf shape in its relaxed, deflated, position; and longitudinal ridges attached to the expandable tube and harbored in the clover leaf shape, the expandable

tube adapted to be inflated and expanded with fluid, thereby pushing the elongated ridges outwardly into the obstruction material.

0) US6015416A – SURGICAL ANASTOMOSIS INSTRUMENT

40) Family number: 14960108 (US6015416A) © PatBase

Title: Surgical anastomosis instrument

Priority: CA19992262993 19990224 US19980031346 19980226 US19990412276 19991005

Family:

Publication number	Publication date	Application number	Application date
AU199917342 A1	19990909	AU19990017342	19990216
AU742319 B2	20011220	AU19990017342	19990216
CA2262993 AA	19990826	CA19992262993	19990224
DE69931293 D1	20060622	DE19996031293	19990225
DE69931293 T2	20070524	DE19996031293T	19990225
EP0938870 A1	19990901	EP19990301416	19990225
EP0938870 B1	20060517	EP19990301416	19990225
ES2264243 T3	20061216	ES19990301416T	19990225
JP11276494 A2	19991012	JP19990048876	19990225
US6015416 A	20000118	US19980031346	19980226
US6187019 BA	20010213	US19990412276	19991005

Probable Assignee: ETHICON ENDO SURGERY INC

Assignee(s):(std)**:** ETHICON ENDO SURGERY INC

Assignee(s): FLEGE JOHN B JR ; HAMANN DAVID L ; LADD DOUGLAS N ; LUPTON RENEE J ; STEFANCHIK DAVID ; CRAFT JAMES A

Inventor(s):(std)**:** STEFANCHIK DAVID ; LUPTON RENEE J ; LUPTON J RENEE ; LADD DOUGLAS N ; HAMANN DAVID L ; FLEGE JR JOHN B ; FLEGE JOHN B JR ; FLEGE JOHN B ; FLEDGE JOHN B JR ; CRAFT JAMES A

Inventor(s): DOUGLAS N LADD ; DAVID STEFANCHIK ; DAVID L HAMANN ; JOHN B FLEGE JR ; JOHN B FLEDGE JR ; JAMES A CRAFT ; J RENEE LUPTON

Agent(s): FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD; OGILVY RENAULT LLP SENCRL SRL

Designated states: DE ES FR IT NL

International class (IPC 8–9): A61B17/00 A61B17/04 A61B17/06 A61B17/08 A61B17/11 A61B17/115 (Advanced/Invention); A61B17/00 A61B17/04 A61B17/06 A61B17/08 (Advanced/Non–invention); A61B17/03 A61B17/04 (Core/Invention); A61B17/00 A61B17/06 (Core/Non–invention)

International class (IPC 1–7): A61B17/04 A61B17/11 A61B17/115

CPC: A61B17/0482 A61B17/11 A61B2017/00252 A61B2017/06076 A61B2017/081 A61B2017/1107 A61B2017/1135 A61B2017/1139

European class: A61B17/11 K61B17/00E1C2B K61B17/04G K61B17/06N2 K61B17/08A K61B17/11B K61B17/11P K61B17/11Q

US class: 606/1 606/143 606/144 606/145 606/153 606/158 606/213 606/216

Classification Explorer

Cited documents: WO9712555 A2, WO9517128 A1, US5843122 A, US5695504 A, US5571090 A, US5562685 A, US5545148 A, US5520703 A, US5425737 A, US5411481 A, US5356424 A, US5188636 A, US5089008 A, US5041127 A, US4997439 A, US4931057 A, US4930502 A, US4917114 A, US4915107 A, US4803984 A, US4773420 A, US4749114 A, US4657019 A, US4593693 A, US4470415 A, US4368736 A, US4366819 A, US4345600 A, US4204541 A, US3561448 A, US3316914 A, US3019790 A, US3019789 A, US1181563 A, GB1181563 A,

Forward Citations: WO06063479, WO05000127, WO0108601, WO0108601, US9668731, US9655618, US9622774, US9622748, US9585664, US9585659, US9579097, US9539008,

US9408603, US9398910, US9370361, US9364222, US9345478, US9326756, US9301762, US9259224, US9241712, US9192381, US9186176, US9168039, US9161778, US9144427, US9113876, US9044267, US8925783, US8915934, US8906039, US8821514, US8800837, US8789738, US8771312, US8690901, US8685004, US8679155, US8663246, US8574246, US8506557, US8505802, US8505799, US8475493, US8475474, US8459524, US8459521, US8439245, US8419768, US8413872, US8361092, US8348125, US8328823, US8272551, US8267924, US8240537, US8226709, US8201721, US8197464, US8167898, US8162963, US8157150, US8132705, US8123102, US8114110, US8109949, US8109427, US8092493, US8080023, US8034064, US8025198, US8012164, US8006887, US7981126, US7963432, US7950560, US7931660, US7931183, US7922734, US7922063, US7909221, US7901417, US7870989, US7850703, US7823760, US7815652, US7794471, US7766924, US7757925, US7743958, US7727250, US7699859, US7682368, US7666194, US7648055, US7635385, US7611523, US7585306, US7537599, US7530987, US7468066, US7455677, US7438718, US7422137, US7371243, US7357807, US7335216, US7322994, US7309343, US7303570, US7303569, US7300444, US7285131, US7267682, US7223274, US7223273, US7220268, US7217285, US7204843, US7195142, US7175637, US7172608, US7153286, US7144405, US7131980, US7131979, US7131978, US7128749, US7108702, US7063712, US7059510, US7048751, US7041112, US7041110, US7037315, US7029482, US7018388, US7014644, US7011668, US7004949, US6994714, US6966920, US6962595, US6953464, US6902570, US6893449, US6860891, US6805708, US6786914, US6776785, US6769594, US6746456, US6743244, US6726697, US6719769, US6652541, US6626921, US6623494, US6620177, US6613058, US6582444, US6537288, US6530932, US6520973, US6514263, US6497710, US6478804, US6471713, US6461320, US6428550, US6419681, US6398797, US6391038, US6391038, US6371964, US6302892, US2012095504, US2011220703, US2011210157, US2011172681, US2011095068, US2011079626, US2011036888, US2010320254, US2010312257, US2010237129, US2010230464, US2010155453, US2010076408, US2010069934, US2009270887, US2009105816, US2009105815, US2009043298, US2009036904, US2009001129, US2008319457, US2008287972, US2008272172, US2008269784, US2008251568, US2008203135, US2008200978, US2008051811, US2008027472, US2007270751, US2007225737, US2007142850, US2007119902, US2007062999, US2007043387, US2006289601, US2006282101, US2006212048, US2006206124, US2006195127, US2006167485, US2006155313, US2006111731, US2005283173, US2005234483, US2005154406, US2005149079, US2005149078, US2005149071, US2005143758, US2005131432, US2005131428, US2005087580, US2005075657, US2005038457, US2005038456, US2005038449, US2005033330, US2005027308, US2005010241, US2005004591, US2004260342, US2004254592, US2004249415, US2004249400, US2004243155, US2004225306, US2004210244, US2004199182, US2004181245, US2004167550, US2004102795, US2004098011, US2004097994, US2004097991, US2004092977, US2004092967, US2004087979, US2004078047, US2004073248, US2004049213, US2004015180, US2004002721, US2003220598, US2003212418, US2003208213, US2003181930, US2003171761, US2003153931, US2003120293, US2003109893, US2003105476, US2003105475, US2003065341, US2003028205, US2003023253, US2003014064, US2002128666, US2002077637, US2002026137, US2001037139, US2001004698, EP2283783, DE102010035470, DE102010035470, DE102009009925, DE10084856, CN101991449, CN101991449,

Abstract:
Source: US6015416A In accordance with the present invention, there is provided a surgical device for attaching a first hollow organ to a second hollow organ and creating a passageway therebetween. The device includes a first member comprising a first prong for entering a wall of the first hollow organ and a second prong for entering a wall of the second hollow organ. The prongs each have a proximal end which attaches to the first member and a distal end extending therefrom. The device further includes a second member having a plow for incising at least one of the hollow organs so as to create a passageway between the hollow organs. The second member further includes a plurality of needle paths on either side of the plow for guiding a needle through the walls of the hollow organ on either side of the passageway. The device further includes a means for driving a needle, having a suture attached thereto, so as to attach the hollow organs together. Lastly, the device includes a frame for coupling the first member and the second member together in operational engagement.

0) US2011112564A – DEVICE AND METHOD FOR CROSSING OCCLUSIONS

41) Family number: 44048413 (US2011112564A) © PatBase

Title: DEVICE AND METHOD FOR CROSSING OCCLUSIONS

Priority: IL20100209453 20101118 US20080054815P 20080521 US20080199040P 20081113 WO2009IL00504 20090521 US20090993326 20090521

Family:

Publication number	Publication date	Application number	Application date
EP2307083 A1	20110413	EP20090750274	20090521
IL209453 A0	20110131	IL20100209453	20101118
IL209453 A1	20130228	IL20090209453	20090521
US2011112564 AA	20110512	US20090993326	20090521
WO09141822 A1	20091126	WO2009IL00504	20090521

Probable Assignee: MEDICAL RESEARCH INFRASTRUCTURE AND HEALTH SERVICES FUND OF TEL AVIV MEDICAL CENTER

Assignee(s):(std): MEDICAL RES INFRASTRUCTURE AND ; MEDICAL RES INFRASTRUCTURE AND HEALTH SERVICES FUND OF THE TEL AVIV MEDICAL CT ; MEDICAL RES INFRASTRUCTURE AND HEALTH SERVICES FUND TEL AVIV MEDICAL CT ; WOLF YEHUDA G ; YEHUDA G WOLF ; SERVICES FUND OF THE TEL AVIV MEDICAL CT THE MEDICAL RES INFRASTRUCTURE AND HEALTH

Assignee(s): SERVICES FUND OF THE TEL AVIV MEDICAL CENTER THE MEDICAL RESEARCH INFRASTRUCTURE AND HEALTH ; SERVICES FUND OF TEL AVIV MEDICAL CENTER MEDICAL RESEARCH INFRASTRUCTURE AND HEALTH ; SAFEBACK RE ENTRY MEDICAL LTD ; THE MEDICAL RESEARCH INFRASTRUCTURE AND HEALTH SERVICES FUND OF THE TEL AVIV MEDICAL CENTER ; MEDICAL RESEARCH INFRASTRUCTURE AND HEALTH SERVICE ; MEDICAL RESEARCH INFRASTRUCTURE AND HEALTH SERVICES FUND OF TEL AVIV MEDICAL CENTER

Inventor(s):(std): WOLF YEHUDA G

Inventor(s): YEHUDA G WOLF

Agent(s): CASPARY KARSTEN; DR EYAL BRESSLER; DR EYAL BRESSLER LTD

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 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 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

International class (IPC 8–9): A61B17/22 A61M25/00 A61M25/04 A61M25/09 (Advanced/Invention); A61M25/09 (Advanced/Non–invention); A61M25/00 A61M25/02 (Core/Invention); A61M25/09 (Core/Non–invention); A61M (Subclass/Invention)

CPC: A61M25/0074 A61M25/0026 A61M25/0068 A61M25/0069 A61M25/04 A61M25/09 A61M2025/0063

European class: A61M25/00T1 A61M25/00T10A A61M25/00T20 A61M25/04 K61M25/00R1M K61M25/00S10 K61M25/00T10 K61M25/09

US class: 606/159 606/159P

Classification Explorer

Cited documents: WO0202162 A2, US6685722 BA, US4447227 A, US2005033236 AA, US2003014010 AA, US2002103459 AA, US2001049517 AA,

Forward Citations: WO12168936, WO12037654, USD770616, USD765243, US9603618, US9579489, US9486611, US9486239, US9456872, US9456842, US9413896, US9402981, US9302084, US9291663, US9289226, US9283040, US9174032, US9028520, US8961551, US2014052097, FR3010319, CN103298515,

Abstract:
Source: US2011112564A A catheter (1) adapted to cross occlusions in vessels of a patient. The catheter is

having a proximal end reversibly insertable adjacent to the occlusion and a distal opposite end located outside the patient. When the pusher (10) in the OPEN configuration, it provides a preset void volume barriered by means of the pusher, the proximal end of the catheter and the inner surface of the vessel. The vacuum generating mechanism applies suction on the occlusion and on the inner surface of the vessel through the void volume, to collapse and fix the tissues around the pusher and to stabilize the pusher of the catheter so that the occlusion can be penetrated with a guide–wire (13).

0) US5217474A – EXPANDABLE TIP ATHERECTOMY METHOD AND APPARATUS...

42) Family number: 24044054 (US5217474A) © PatBase

Title: EXPANDABLE TIP ATHERECTOMY METHOD AND APPARATUS

Priority: US19910731109 19910715 US19910805577 19911210 WO1991US06381 19910905 WO1992US05993 19920715 US19950488361 19950607

Family:

Publication number	Publication date	Application number	Application date
AT191325 E	20000415	AT19920915850T	19920715
AU199211528 A1	19930223	AU19920011528	19910905
AU199223398 A1	19930223	AU19920023398	19920715
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CA2113438 C	19991116	CA19922113438	19920715
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DE69230883 T2	20001102	DE19926030883T	19920715
EP0596928 A1	19940518	EP19920915850	19920715
EP0596928 A4	19941214	EP19920915850	19920715
EP0596928 B1	20000405	EP19920915850	19920715
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US5308354 A	19940503	US19910805577	19911210
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WO9301753 A2	19930204	WO1992US05993	19920715
WO9301753 A3	19930401	WO1992US05993	19920715
WO9301849 A1	19930204	WO1991US06381	19910905

Probable Assignee: CARDIOVASCULAR SYSTEMS INC

Assignee(s):(std)**:** JASSO MARTIN ; JASSO MARTIN R ; MARTIN R DZHASSO ; NADIM M ZAKKA ; ZACCA NADIM M

Assignee(s): NADIM M ZACCA ; CARDIOVASCULAR SYSTEMS INC ; MARTIN R JASSO

Inventor(s):(std)**:** JASSO MARTIN ; JASSO MARTIN R ; MARTIN JASSO ; MARTIN R DZHASSO ; MARTIN R JASSO ; MARTIN RDZHASSO ; NADIM M ZACCA ; NADIM M ZAKKA ; NADIM MZAKKA ; ZACCA NADIM M

Agent(s): ASPEN PHARMA PTY LTD; SPRUSON AND FERGUSON; BLAKE CASSELS AND GRAYDON LLP

Designated states: AT AU BB BE BF BG BJ BR CA CF CG CH CI CM CS DE DK ES FI FR GA GB GN GR HU IT JP KP KR LI LK LU MC MG ML MN MR MW NL NO PL RO RU SD SE SN SU TD TG

International class (IPC 8–9): A61B17/00 A61B17/22 A61B17/32 A61B17/3205 A61M25/00 (Advanced/Invention); A61B17/00 A61B17/32 A61B17/3205 A61M25/00 (Advanced/Non–invention); A61B17/00 A61B17/22 A61B17/32 A61M25/00 (Core/Invention)

International class (IPC 1–7): A61B17/00 A61B17/22 A61B17/32 A61M29/02 A61M5/178

CPC: A61B17/22 A61B17/320725 A61B2017/00553 A61B2017/22062 A61B2017/22082 A61B2017/22092 A61B2017/320004

European class: A61B17/22 A61B17/3207E K61B17/00N6 K61B17/22H6 K61B17/22S K61B17/22S12 K61B17/32A

US class: 606/159 606/170 606/180 606/194

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Abstract:
Source: US5217474A A device for removing obstructions from vessels or small openings in the body, comprising a rotatable ablator tip which is guided to the obstruction in a reduced diameter configuration, expanded and rotated to remove the obstruction, and contracted to remove the device from the body. The variably expandable abrasive tip coil in one embodiment of the invention is actuated by a piston means disposed within the coil. A pair of collars is attached to the ends of the coil, and the piston effects relative longitudinal axial movement of the collars and, hence, the respective ends of the coil tip. When the ends of the coil tip are so moved with respect to one another, expansion and contraction of the diameter of the coil tip results. In another embodiment of the invention, the expansion tip coil is actuated by an expandable and contractible bellows means disposed within the coil, instead of the piston means. In another embodiment of the invention, the expansion and contraction of the coil tip are effected by longitudinal axial movement of an internal coil attached to one end of the coil tip, within an outer coil attached to the other end of the coil tip. In another embodiment of the invention, expansion and contraction of the coil tip are effected by an inflatable balloon disposed within the coil tip. The balloon expansion means enlarges preferably at the central portion of the coil to make a bulge.

0) US2010106149A – APPARATUS FOR ADMINISTERING THERAPY AT A REMOTE...

43) Family number: 33180075 (US2010106149A) © PatBase

Title: APPARATUS FOR ADMINISTERING THERAPY AT A REMOTE LOCATION IN THE BODY

Priority: GB20060010489 20060524 GB20070000553 20070111 GB20070007370 20070413 GB20070024347 20071213 WO2007GB01914 20070523 WO2008GB00084 20080111 US20090522721 20091209 US20120712207 20121212

Family:

Publication number	Publication date	Application number	Application date
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CN101495048 B	20120905	CN200780028106	20070523
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JP5096462 B2	20121212	JP20090511577T	20070523
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US2010268217 AA	20101021	US20070301895	20070523
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WO08084239 A2	20080717	WO2008GB00084	20080111
WO08084239 A3	20081113	WO2008GB00084	20080111

Probable Assignee: EMCISION LTD

Assignee(s):(std)**:** EMCISION LTD ; HABIB MEDICAL LTD ; HABIB NAGY

Assignee(s): EMCISION LIMITED ; HABIB MEDICAL LIMITED

Inventor(s):(std)**:** HABIB NAGY ; NAGY HABIB

Agent(s): CREASE DEVANAND JOHN ET AL; CREASE DEVANAND JOHN; CAESAR RIVISE BERNSTEIN COHEN AND POKOTILOW LTD

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 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 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 ZA ZM ZW

International class (IPC 8–9): A61B17/08 A61B17/12 A61B18/00 A61B18/04 A61B18/08 A61B18/12 A61B18/14 A61B18/18 A61B18/20 (Advanced/Invention); A61B17/03 A61B18/04 A61B18/14 A61B18/18 (Core/Invention)

International class (IPC 1–7): A61B17/08

CPC: A61B17/12013 A61B17/2202 A61B18/24 A61B2018/1475 A61B2018/2272 A61B18/082 A61B18/1492 A61B2017/00867 A61B2018/00214 A61B2018/00267 A61B2018/1435 A61B2018/1467 A61B2018/1495 C08L2201/12

European class: A61B17/22B2D A61B18/14V A61B18/24 K61B17/00S12 K61B17/12L2 K61B18/00B14 K61B18/00B14C K61B18/14C14 K61B18/14H K61B18/14M K61B18/14X K61B18/22T6

M08L201/12

US class: 606/28 606/28P 606/29 606/33 606/33P 606/41 607/101 607/116

Classification Explorer

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Forward Citations: WO15175662, WO14160118, WO14152038, WO14043687, WO14043687, WO13070724, WO11081687, US9668811, US9649156, US9592386, US9579030, US9510901, US9486355, US9463062, US9433760, US9420955, US9408661, US9402684, US9364284, US9358365, US9327100, US9326751, US9297845, US9277955, US9265969, US9220561, US9220558, US9192790, US9192435, US9186211, US9186210, US9186209, US9179974, US9174050, US9173696, US9162046, US9155589, US9125667, US9125666, US9119632, US9119600, US9089350, US9084609, US9079000, US9072902, US9060761, US9050106, US9037259, US9028485, US9028472, US9023034, US8989873, US8974451, US8951251, US8939970, US8920414, US8880185, US8551096, US8496653, US8401667, US8396548, US8364237, US2015265350, US2015105795, US2014358089, US2013023975, US2012191181, JP2014514071, JP2011529350, GB2525113, GB2525113, GB2525029, GB2525029, GB2484046, GB2484046, EP3173045, EP3034025, EP2939629, CN104780859, CN104519837, CN104023662, CN103976788, CN103561814, CN103517682, CN103517682, CN102871727, CN102871727, CN102665573, CN102665573,

Abstract:
Source: US2010106149A Devices suitable for insertion into a hollow anatomical structure within a patient for the purpose of ablating tissue within or surrounding the hollow structure so as to induce occlusion of the hollow structure are provided. The devices are in the form of guidewires with functional tips, that comprise at least one heating module, at their distal ends. The devices of the invention are suitable for occluding hollow anatomical structures selected from vasculature or from non−vascular ducts and tubes, via percutaneous, laparoscopic or endoscopic routes of access. Methods of using the devices in the treatment of patients are also described.

0) US5019047A – FLUID DELIVERY APPARATUS

44) Family number: 44595224 (US5019047A) © PatBase

Title: FLUID DELIVERY APPARATUS

Priority:

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AU19980068084	19980525	AU19940069513	19940517	AU19980080849	19980820
US19930129470	19930929	US19930046438	19930518	US19930046438	19930413
US19920987021	19921207	US19910642208	19910116	US19930066438	19930518
US19930069937	19930528	US19920870269	19920417	US19970907564	19970808
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US19940192035	19940203	WO1992US10482	19921207	US19950451520	19950526
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Family:

Publication number	Publication date	Application number	Application date
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Designated states: AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CS CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IS IT JP KE KG KP KR KZ LI LK LR LS LT LU LV MC MD MG ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SN SU SZ TD TG TJ TT UA UG UZ VN

International class (IPC 8–9): A61J1/00 A61J1/20 A61J1/22 A61M1/00 A61M37/00 A61M5/00 A61M5/14 A61M5/142 A61M5/145 A61M5/148 A61M5/152 A61M5/158 A61M5/168 A61M5/175 B01J4/00 (Advanced/Invention); A61M1/00 A61M37/00 A61M5/00 A61M5/14 A61M5/142 A61M5/158 A61M5/168 B01J4/00 (Advanced/Non–invention); A61M1/00 A61M37/00 A61M5/00 A61M5/14 A61M5/142 A61M5/145 A61M5/168 (Core/Invention); A61M5/14 A61M5/142 (Core/Non–invention)

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CPC: Y10S128/12 A61M5/168 A61M2005/1581 A61J1/2096 A61M5/1407 A61M5/1409 A61M5/1413 A61M5/14248 A61M5/152 A61M2205/197 A61M2209/045 A61J1/201 A61J1/2075 A61J1/2082 A61J1/2037 A61J1/2044

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JP2013503692, JP2013192853, JP2010526584,

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Abstract:
Source: US5019047A An apparatus for accurately infusing medicinal agents into an ambulatory patient at specific rates over extended periods of time. The apparatus is of a compact, low profile, laminate construction and includes an elastic distendable membrane, which, in cooperation with a thin planar base, defines a fluid chamber having a fluid outlet. Disposed within the fluid chamber is a thin fluid permeable member which precisely controls the rate of fluid flow through the fluid outlet.

45) Family number: 30185274 (US2004210194A) © PatBase

Title: THROMBECTOMY CATHETER DEVICE HAVING A SELF–SEALING HEMOSTASIS VALVE

Priority: CA19982257615 19981229 CA19992285668 19991006 JP19990312998 19991102 US19980019728 19980206 US19980188633 19981109 US20010888454 20010625 US19990356783 19990716 US20010888455 20010625 US20020198264 20020716 US20050096592 20050401 WO2002US17617 20020530 WO2005US41412 20051112 WO2004US15676 20040517 US20030455096 20030605

Family:

Publication number	Publication date	Application number	Application date
AT448823 E	20091215	AT20030253576T	20030605
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CA2285668 AA	20000509	CA19992285668	19991006
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DE69917817 T2	20050707	DE19996017817T	19990204
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EP1000584 B1	20031112	EP19990308120	19991014
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EP1638630 A4	20070704	EP20040752657	20040517
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EP1865858 B1	20160817	EP20050826638	20051112
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JP4336431 B2	20090930	JP19990312998	19991102
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US2006064123 AA	20060323	US20050096592	20050401
US5989210 A	19991123	US19980019728	19980206
US6224570 BA	20010501	US19980188633	19981109
US6676637 BA	20040113	US20010888454	20010625
US6755803 BA	20040629	US20010888455	20010625
US6875193 BA	20050405	US20020198264	20020716
US7226433 BB	20070605	US20030455096	20030605
US7879022 BB	20110201	US20050096592	20050401
WO03000311 A2	20030103	WO2002US17612	20020530
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WO06107343 A2	20061012	WO2005US41412	20051112	
WO06107343 A3	20071108	WO2005US41412	20051112	

Probable Assignee: BOSTON SCIENTIFIC LTD

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Inventor(s): SCHROM MICHAEL ; LE HIEU ; BONNETTE MICHAEL

Agent(s): SMART AND BIGGAR; BROWNE ROBIN FORSYTHE; VOSSIUS AND PARTNER PATENTANWAELTE RECHTSANWAELTE MBB; HUGH D JAEGER; HUGH D; DAVID J

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

International class (IPC 8–9): A61B17/00 A61B17/20 A61B17/22 A61B17/32 A61B17/50 A61M25/00 A61M3/00 A61M39/06 A61M5/178 (Advanced/Invention);
A61B17/00 A61B19/00 (Advanced/Non–invention);
A61B17/00 A61B17/22 A61B17/50 A61M25/00 (Core/Invention);
A61B19/00 (Core/Non–invention);
A61M (Subclass/Invention)

International class (IPC 1–7): A61B17/00 A61B17/20 A61B17/22 A61B17/32 A61B17/50 A61M25/00 A61M5/178

CPC: Y10T83/0443 Y10T83/0453 A61B2090/034 A61M39/0613 A61M25/0097 A61M39/0693 A61M2039/062 A61M2039/0633 A61M2039/066 A61B17/22 A61B17/3203 A61B2017/00292 A61B2017/00778 A61B2017/22041 A61B17/32037 A61B17/32075

European class: A61B17/22 A61B17/3203 A61B17/3203R A61B17/3207P A61M39/06D A61M39/06P K61B17/00E3 K61B17/00R4 K61B17/22G2 K61B19/30F2 K61M25/00V K61M39/06F K61M39/06J K61M39/06J7

US class: 604/131 604/164.01 604/164.13 604/165.02 604/165.04 604/167.06 604/167.060P 604/22 604/22S 604/247 604/264 604/35 604/43 604/508 604/523 604/526 604/533 604/93.01 606/127 606/159 606/167 606/167P 606/41 83/22 83/24

Classification Explorer

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Abstract:
Source: US2004210194A A thrombectomy catheter device having an improved hemostasis valve which is self−sealing and which functions as a one−way valve. The self−sealing hemostasis valve can be factory preset to automatically seal with or without the inclusion of a guidewire at a certain desired pressure or allowable leakage. Such sealing is automatic without the need to manually manipulate a hemostasis nut to obtain hemostasis. The thrombectomy catheter device can, without hemostasis nut adjustment, be positioned along and about a guidewire while yet maintaining suitable pressure for sustaining hemostasis at a preferred level. Certain embodiments of the thrombectomy catheter device having a self−sealing hemostasis valve include an adjustable hemostasis nut which can be manually tightened to restrict flow or guidewire movement or loosened to reduce friction on the guidewire and allow fluid to flow out if desired. An introducer facilitates free passage of a guidewire in either direction through the hemostasis nut and hemostasis valving and can also be incorporated to purge internal air or fluids.

46) Family number: 50916401 (US2012089071A) © PatBase

Title: IMPLANT DEVICE, TOOL, AND METHODS RELATING TO TREATMENT OF PARANASAL SINUSES

Priority: AU20110311833 20111007 AU20150243052 20151015 US20110225213 20110902 US20110528058P 20110826 US20100404716P 20101008 CN201180059382 20111007 WO2011US55456 20111007 US20110877893 20111007 US20150624165 20150217 US20160077020 20160322 US20130877893 20130404

Family:

Publication number	Publication date	Application number	Application date
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AU2011311833 BB	20150716	AU20110311833	20111007
AU2015243052 AA	20151105	AU20150243052	20151015
CA2812254 AA	20130321	CA20112812254	20111007
CN103458829 A	20131218	CN201180059382	20111007
CN103458829 B	20160629	CN201180059382	20111007
CN106073989 A	20161109	CN201610554444	20111007
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EP2624876 A4	20161123	EP20110831713	20111007
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JP2014501542 T2	20140123	JP20130532991T	20111007
JP5914497 B2	20160511	JP20130532991T	20111007
KR20130122631 A	20131107	KR20137011976	20111007
MX2013003942 A1	20130605	MX20130003942	20111007
US2012089071 AA	20120412	US20110225213	20110902
US2013274647 AA	20131017	US20110877893	20111007
US2015157835 AA	20150611	US20150624165	20150217
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US9022967 BB	20150505	US20110225213	20110902
US9308358 BB	20160412	US20110877893	20111007
WO12048278 A2	20120412	WO2011US55456	20111007
WO12048278 A3	20130711	WO2011US55456	20111007

Probable Assignee: SINOPSYS SURGICAL INC

Assignee(s):(std)**:** OLIVER CHRISTOPHER LEE ; ROSS HARRY ; SCHOMER DONALD F ; WILLOUGHBY BRIAN JAMES ; SINOPSYS SURGICAL INC ; CIMINO WILLIAM W ; DCS SURGICAL INC

Assignee(s): DCS SURGICALINC

Inventor(s):(std)**:** CIMINO WILLIAM W ; OLIVER CHRISTOPHER LEE ; ROSS HARRY ; SCHOMER DONALD F ; WILLOUGHBY BRIAN JAMES ; WILLOUNGHBY BRIAN JAMES

Inventor(s): WILLIAM W CIMINO ; DONALD F SCHOMER ; HARRY ROSS ; BRIAN JAMES WILLOUNGHBY ; CHRISTOPHER LEE OLIVER

Agent(s): ALLENS PATENT AND TRADE MARK ATTORNEYS; PARLEE MCLAWS LLP; MALLALIEU CATHERINE LOUISE; ONDA HIRONORI; ONDA MAKOTO; MARSH FISCHMANN AND BREYFOGLE LLP; BREYFOGLE ROSS E

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 QA RO RS RU RW 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

International class (IPC 8–9): A61B17/24 A61B17/34 A61F2/02 A61F2/14 A61F2/18 A61F9/007 A61M1/00 A61M27/00 A61M31/00 A61M5/00 (Advanced/Invention)

CPC: A61F9/00772 A61M31/00 A61M2210/0681 A61B17/3468 A61M27/002 A61M2210/0612

European class: A61F9/007T

US class: 1/1 604/8 604/8P

Classification Explorer

Cited documents: WO12048278 A2, WO11066479 A1, WO10111528 A2, WO10096822 A2, WO10078145 A1, WO09145755 A1, WO09035562 A2, WO08045242 A2, WO07115259 A2, WO06133066 A2, USD590935 S1, US9022967 BB, US7846124 BB, US7803150 BB, US7785315 BA, US7771409 BB, US7758534 BB, US7727226 BB, US7727186 BB, US7720521 BB, US7713255 BB, US7654997 BB, US7645272 BB, US7641644 BB, US7559925 BB, US7547323 BB, US7500971 BB, US7462175 BB, US7419497 BB, US7410480 BB, US7361168 BB, US7169163 BB, US7156821 BB, US6966888 BB, US6878165 BB, US6629533 BA, US6083188 A, US6041785 A, US5345948 A, US5169386 A, US4921485 A, US4915684 A, US3948272 A, US3726284 A, US2014012309 AA, US2013274647 AA, US2013030545 AA, US2012245539 AA, US2012089071 AA, US2011276131 AA, US2011224680 AA, US2011112512 AA, US2011105989 AA, US2011060214 AA, US2011004057 AA, US2010317969 AA, US2010298862 AA, US2010274259 AA, US2010274204 AA, US2010268245 AA, US2010210901 AA, US2010198247 AA, US2010174308 AA, US2010174138 AA, US2010121308 AA, US2010114066 AA, US2010106255 AA, US2010100181 AA, US2010099946 AA, US2010076269 AA, US2010042046 AA, US2010034870 AA, US2009312745 AA, US2009281621 AA, US2009275903 AA, US2009275882 AA, US2009240237 AA, US2009240112 AA, US2009221988 AA, US2009204142 AA, US2009198216 AA, US2009187098 AA, US2009105749 AA, US2009104248 AA, US2009099626 AA, US2009036818 AA, US2009030274 AA, US2009028923 AA, US2009005763 AA, US2008319424 AA, US2008306428 AA, US2008287908 AA, US2008281156 AA, US2008275483 AA, US2008234720 AA, US2008228085 AA, US2008195041 AA, US2008154250 AA, US2008154237 AA, US2008132938 AA, US2008125805 AA, US2008125626 AA, US2008119693 AA, US2008103521 AA, US2008103361 AA, US2008097514 AA, US2008097354 AA, US2008097154 AA, US2008082037 AA, US20080306428, US2007293727 AA, US2007293726 AA, US2007282305 AA, US2007276314 AA, US2007269487 AA, US2007255263 AA, US2007249896 AA, US2007208301 AA, US2007208252 AA, US2007167682 AA, US2007135789 AA, US2007129751 AA, US2007112291 AA, US2007005120 AA, US2006276738 AA, US2006251575 AA, US2006142736 AA, US2006063973 AA, US2005273033 AA, US2005245906 AA, US2005240143 AA, US2005197614 AA, US20050273033, US2004254516 AA, US2004204704 AA, US2004116958 AA, US2004077989 AA, US2002107579 AA, US2002032444 AA, US0306428, US0273033, JP2008508938 T2, JP2008508938, JP2006504467 T2, JP2006504467, FR2813522 A1, EP0631793 A1, CN1735436 A,

Forward Citations: WO17040855, WO16015002, WO16014996, WO15069433, WO14116980, WO14078288, WO13154843, US9572964, US9561350, US9480598, US9308358, US9241832, US9155656, US9022967, US2015257932, US2015231376, US2015157835, US2014135916, EP2999430, CN105828755, CN104968306,

Abstract:
Source: US2012089071A An implant device is configured to be implanted in a fistula to fluidly connect the lacrimal apparatus and a paranasal sinus. A surgical tool has an implant the implant device mounted on a carrier. Various methods involve a fistula between the lacrimal apparatus and a paranasal sinus. A kit includes an entry device for use to form a fistula and an implant tool for use to implant an implant device following formation of a fistula.

0) US2002151906A – SYSTEMS AND METHODS FOR CLOT DISRUPTION AND RET...

47) Family number: 28310675 (US2002151906A) © PatBase

Title: SYSTEMS AND METHODS FOR CLOT DISRUPTION AND RETRIEVAL

Priority:

CA20002392207	20001128	EP20000966741	20000918	US19990454517	19991206
US20020162276	20020603	US20000590915	20000609	US19990154752P	19990917
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US20120589431	20120820				

Family:

Publication number	Publication date	Application number	Application date
AU200077038 A5	20010417	AU20000077038	20000918
AU200119301 A5	20010612	AU20010019301	20001128
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US6660014 BB	20031209	US20020162276	20020603
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US8062258 BB	20111122	US20090638149	20091215
US8277470 BB	20121002	US20110278210	20111021
US8545447 BB	20131001	US20120589431	20120820
WO0119444 A1	20010322	WO2000US25581	20000918
WO0139673 A1	20010607	WO2000US32412	20001128

Probable Assignee: COVIDIEN LP

Assignee(s):(std)**:** COVIDIEN ; COVIDIEN LP ; LEEFLANG STEPHEN A ; DEMARAIS DENISE M ; EVERSULL CHRISTIAN S ; EVANS MICHAEL A ; TANNER III JOHN C ; BACCHUS VASCULAR INC ; BACCHUS VASCULAR INC A DELAWAR ; TYCO HEALTHCARE ; WATANABE GWENDOLYN A

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Inventor(s):(std)**:**

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Inventor(s): WATANABE GWENDOLYN A SUNNYVALE ; EVANS MICHAEL A PALO ALTO ; CHRISTIAN S EVERSULL ; TANNER JOHN C III SAN FRANCISCO ; LEEFLANG STEPHEN A STANFORD ; MICHAEL A EVANS ; STEPHEN A LEEFLANG ; EVERSULL CHRISTIAN S PALO ALTO ; GWENDOLYN A WATANABE ; JOHN C TANNER ; JOHN C TANNER III ; DEMARAIS DENISE M SAN JOSE ; DENISE DEMARAIS ; DENISE M DEMARAIS

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; FETHERSTONHAUGH AND CO; BARRIGAR INTELLECTUAL PROPERTY LAW; ELSY DAVID; TOWNSEND AND TOWNSEND AND CREW LLP; MARK J; THOMAS M

Designated states: AT AU BE CA CH CY DE DK ES FI FR GB GR IE IT JP LI LU MC NL PT SE TR

International class (IPC 8–9): A61B17/00 A61B17/22 A61B17/26 A61B17/3207 A61M1/00 A61M1/10 A61M25/00 A61M25/14 A61M25/16 A61M29/00 A61M5/178 (Advanced/Invention); A61B17/00 A61M1/00 A61M1/10 (Advanced/Non–invention); A61B17/22 A61M1/10 A61M25/00 A61M29/00 (Core/Invention); A61B17/00 A61M1/00 (Core/Non–invention)

International class (IPC 1–7): A61B17/00 A61B17/20 A61B17/22 A61M25/00 A61M29/00 F04B1/00 F04B35/04

CPC: A61M1/101 A61F2002/016 A61F2002/018 A61F2230/0067 A61F2230/0076 A61F2230/0093 A61B2017/2212 A61F2/013 A61M25/0023 A61B2017/00685 A61M29/02 A61B17/320725 A61B2017/320775

European class: A61B17/3207E A61F2/01D A61M1/10C A61M25/00R1 A61M29/02 K61B17/00Q2 K61B17/221C K61B17/3207R4 K61M1/00T2

US class: 417/410.4 417/410.400S 417/53 417/53P 604/159 604/22 604/540 604/540P 606/110 606/110P 606/128 606/128P 606/159

Classification Explorer

Cited documents: WO9944542 A2, WO9944510 A1, WO9930624 A1, WO9838929 A1, WO9838926 A1, WO9629941 A1, WO9601591 A1, WO9521576 A1, WO9302732 A1, WO0041762 A1, US8062258 BB, US7655016 BB, US6945977 BB, US6702830 BA, US6660014 BB, US6454775 BA, US6322572 BA, US6116352 A, US6090118 A, US6066158 A, US6066152 A, US6036708 A, US6001112 A, US5972019 A, US5954737 A, US5947985 A, US5947940 A, US5928186 A, US5911734 A, US5904698 A, US5899850 A, US5876414 A, US5873882 A, US5843031 A, US5795322 A, US5766191 A, US5695507 A, US5695501 A, US5690641 A, US5688234 A, US5681335 A, US5653696 A, US5643229 A, US5643199 A, US5632755 A, US5630806 A, US5616149 A, US5597378 A, US5571122 A, US5569284 A, US5569277 A, US5569275 A, US5556408 A, US5540707 A, US5527326 A, US5507795 A, US5501694 A, US5501408 A, US5485042 A, US5462529 A, US5443443 A, US5423799 A, US5419774 A, US5410093 A, US5334211 A, US5330484 A, US5322572 A, US5306244 A, US5226909 A, US5192268 A, US5180376 A, US5163910 A, US5135531 A, US5129910 A, US5116352 A, US5112292 A, US5100423 A, US5092844 A, US5078722 A, US5047040 A, US5041093 A, US5041082 A, US5030201 A, US5024651 A, US5011488 A, US5007896 A, US5002553 A, US4979939 A, US4966604 A, US4957482 A, US4926858 A, US4923462 A, US4895166 A, US4894051 A, US4886490 A, US4883458 A, US4878903 A, US4857046 A, US4842579 A, US4819634 A, US4771774 A, US4762130 A, US4737153 A, US4732154 A, US4681106 A, US4665906 A, US4655906 A, US4646736 A, US4621636 A, US4447227 A, US3320957 A, US2012035594 AA, US2010185208 AA, US2004219028 AA, US2004082962 AA, US2002151906 AA,

Forward Citations: WO17074530, WO17019965, WO16187081, WO16071524, WO15190577, WO15183338, WO14145879, WO14145879, WO14141284, WO14141284, WO14141226, WO13179137, WO13179137, WO13026543, WO12141749, WO12106334, WO11072149, WO11059630, WO11024124, WO10096596, WO09154441, WO09097008, WO08103839, WO07089897, WO07047423, WO07047423, WO06124398, WO06081524, WO06081524, WO06055265, WO05094477, WO04093965, WO04066852, WO03043533, WO03043533, WO0174255, US9668811, US9668767, US9662129, US9655633, US9649475, US9649211, US9649156, US9642639, US9642635, US9636206, US9636173, US9636125, US9615850, US9611743, US9603983, US9597437, US9597205, US9597171, US9597159, US9592386, US9592110, US9586031, US9579157, US9579149, US9579116, US9579088, US9579030, US9572627, US9561314, US9561257, US9561094, US9561073, US9554848, US9545468, US9539022, US9532844, US9532799, US9532792, US9526865, US9526864, US9512839, US9510901, US9510855, US9498604, US9498292, US9498252, US9492193, US9492192, US9486355, US9486237, US9474676, US9474543, US9463062, US9463036,

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Abstract:
Source: US2002151906A Thrombectomy and other treatments are achieved using a catheter having a positioning cage and a macerator within the positioning cage. The catheter is introduced to a target body lumen, typically a blood vessel, and a positioning cage deployed at a treatment site. The macerator is then operated to disrupt thrombus, clot, or other occlusive materials at the treatment site, and the catheter is used to collect and remove the disruptive materials from the body lumen. In particular examples, the macerator may be radially expansible and optionally rotated and/or axially translated within the positioning cage to effect disruption of the occlusive material.

0) US2015027204A – RESPIRATORY GAS HUMIDIFICATION SYSTEM

48) Family number: 54787764 (US2015027204A) © PatBase

Title: RESPIRATORY GAS HUMIDIFICATION SYSTEM

Priority:

GB20140017697	20130315	US20120611331P	20120315	US20120722659P	20121105		
US20120733359P	20121204	US20120733360P	20121204	US20120726532P	20121114		
US20130877622P	20130913	US20130877566P	20130913	US20130877784P	20130913		
US20130877736P	20130913	US20130919485P	20131220	US20130786141P	20130314		
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US20140485608	20140912	US20140024969P	20140715	US20140032462P	20140801		
US20140971474P	20140327	WO2013NZ00208	20131114	WO2013NZ00222	20131204		
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Family:

Publication number	Publication date	Application number	Application date
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Inventor(s):(std)**:** ANDRESEN MICHAEL JOHN ; BARKER DEAN ANTONY ; BARRY SHACK MASON ; BOGGS SAMUEL GRAHAM ; BRUCE GORDON HOLYOAKE ; BUCKLEY PAUL FLEMING ; BUSWELL MATTHEW LIAM ; CHARLES CHRISTOPHER NORTH ; CHEUNG DEXTER CHI LUN ; CHRISTOPHER GARETH SIMS ; CORRALES VICTOR ROSALES ; CUDDY HELEN ; D ANDREA DOMINIQUE RICHARD ; DAVID ROBERT KEMPS ; DE LA FUENTE FRANCISCO ERNESTO DE LA PENA ; DEXTER CHI LUN CHEUNG ; DOVER GRANT MARTIN ; EDWARDS THOMAS JAMES ; EDWIN JOSEPH LYONS ; ELMO BENSON STOKS ; ELSWORTH ADRIAN JOHN ; EVANS STEPHEN DAVID ; FRANCISCO ERNESTO DE LA PENA DE LA FUENTE ; GARETH MCDERMOTT ; GARETH THOMAS MCDERMOTT ; GAVIN WALSH MILLAR ; GRIFFITHS JOSEPH NATHANIEL ; GURM SANDEEP SINGH ; HAMILTON MARK SAMUEL ; HAMISH ADRIAN OSBORNE ; HAMISH OSBORNE ; HARWOOD JONATHAN DAVID ; ABHISHEK VADNERKAR ; ADA YIWEN SHOU ; ADRIAN JOHN ELSWORTH ; AL TIAY IBRAHIM ; ALNASHI SINAA ; AMADIO CHRISTOPHER JAYE ; AMADIO CHRISTOPHER JAYE NORMAN ; JAMES OWEN KEHOE ; JAMES WILLIAM STANTON ; JASON ALLAN KLENNER ; JIM KEHOE ; JOHN JAMES JACKSON ; JONATHAN ANDREW GREORGE LAMBERT ; JOSEPH NATHANIEL GRIFFITHS ; KEHOE JAMES OWEN ; HOLYOAKE BRUCE GORDON ; HUANG KU LIU ; IAN LEE WAI KWAN ; IGOR YEVGENIIOVICH SHVARCHUCK ; KEMPS DAVID ROBERT ; LYONS EDWIN JOSEPH ; MADELEINE BESS MARTIN ; MAECKELBERGHE THOMAS JACQUES FERNAND ; MAHRAN MAUMOON SUJAU ; MAN KIT JACKY CHEUNG ; MANON BARRY SHACK ; MARK SAMUEL HAMILTON ; MARTIN MADELEINE BESS ; MCCAULEY DAVID LEON ; MCDERMOTT GARETH THOMAS ; MCKENNA NICHOLAS JAMES MICHAEL ; MICHAEL JOHN ANDRESEN ; MILLAR GAVIN WALSH ; MUNKELT KATJA ; MYFANWY JANE ANTICA NORTON ; NICHOLAS EDWARD VAUGHAN ; NICHOLAS JAMES MICHAEL MCKENNA ; KLENNER JASON ALLAN ; KWAN IAN LEE WAI ; LAMBERT JONATHAN ANDREW GEORGE ; LANG RICHARD EDWARD ; LIU PO YEN ; NORTON MYFANWY JANE ANTICA ; OOSTHUYSEN HELGARD ; ORCHARD KIERAN MICHAEL ; OSBORNE HAMISH ADRIAN ; PAUL FLEMING BUCKLEY ; PAUL JAMES TONKIN ; PETER ALAN SEEKUP ; PING SI ; PO YEN DAVID LIU ; PO YEN LIU ; PORTER

RACHAEL ; RACHAEL PORTER ; RICHARD EDWARD LANG ; SAMUEL GRAHAM BOGGS ; SANDEEP SINGH GURM ; SANJAY PARAG PATEL ; OSTHUYSEN HELGARD ; PARIS TESSA HAZEL ; PATEL SANJAY ; SI PING ; SIMON MORDECHAI STAM ; SIMS CHRISTOPHER GARETH ; STAM SIMON MORDECHAI ; STANTON JAMES WILLIAM ; STEFAN LEO VAN WORKUM ; STEPHEN DAVID EVANS ; SCHALKWYK ANDRE VAN ; SEEKUP PETER ALAN ; STROOBANT JOSH ; VAN SCHALKWYK ANDRE ; VAN WORKUM STEFAN LEO ; VAUGHAN NICHOLAS EDWARD ; VICTOR ROSALES CORRALES ; WAI IAN KWAN LEE ; WILSON MATTHEW ROBERT ; TESSA HAZEL PARIS ; THOMAS JACQUES FERNAND MAECKELBERGHE ; TONKIN PAUL JAMES ; ANDREA DOMINIQUE RICHARD D ; VADNERKAR ABHISHEK ; SUJAU MAHRAN MAUMOON ; STOKS ELMO BENSON ; SHVARCHUCK IGOR YEVGENIIOVICH ; SHOU ADA YIWEN ; PATEL SANJAY PARAG ; OSBORNE HAMISH ; NORTON MYFANWAY JANE ANTICA ; NORTH CHARLES CHRISTOPHER ; MAECKELBERGHE JACQUES FERNAND ; LIU PO YEN DAVID ; LIU HUANG KU ; KEHOE JIM ; JACKSON JOHN JAMES ; CHEUNG MAN KIT JACKY ; DAVID LEON MCCAULEY

Inventor(s): CHRISTOPHER JAYE NORMAN AMADIO ; STROOBANT JOSHUA DANIEL ; VADNERKAR ABHISHEK3653 RUE DE LA MONTAGNEMONTREALQ1H3G 2A7CA ; THOMAS JAMES EDWARDS ; KATJA MUNKELT ; JOSH STROOBANT ; JONATHAN DAVID HARWOOD ; GRANT MARTIN DOVER ; DOMINIQUE RICHARD D ANDREA ; DEAN ANTONY BARKER ; SUJAU MAHRAN MAUMOONNZ ; SHVARCHUCK IGOR YEVGENIIOVICHNZ ; STOKS ELMO BENSONNZ ; SINAA ALNASHI ; PATEL SANJAY PARAGNZ ; SANJAY PATEL ; OSBORNE HAMISHNZ ; LIU PO YEN DAVIDNZ ; NORTH CHARLES CHRISTOPHERNZ ; MATTHEW LIAM BUSWELL ; MATTHEW ROBERT WILSON ; KIERAN MICHAEL ORCHARD ; JACKSON JOHN JAMESNZ ; IBRAHIM AL TIAY ; IAN KWAN LEE WAI ; KEHOE JIMNZ ; ANDRE VAN SCHALKWYK ; HELEN CUDDY ; HELGARD OOSTHUYSEN

Agent(s): BALDWINS INTELLECTUAL PROPERTY; ROBIC; CARTER STEPHEN JOHN; TREEBY PHILIP DAVID WILLIAM; NAGAI HIROSHI

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

International class (IPC 8–9): A61G11/00 A61M13/00 A61M16/00 A61M16/06 A61M16/08 A61M16/10 A61M16/16 A61M39/08 A61M39/10 B29C53/78 F16L11/16 G01F1/69 G01F23/26 (Advanced/Invention); A61M16/00 (Advanced/Non–invention)

CPC: A61M2016/0039 A61M2205/3379 A61M2205/502 G01F23/26 G01F1/69 A61M16/0833 A61M16/108 A61M16/168 A61M2205/02 A61M2205/14 A61M2205/17 A61M2205/18 A61M2205/21 A61M2205/6018 A61M2205/6045 A61M2209/06 A61M2209/08 A61G2210/70 A61G2210/90 A61M2209/082 A61M2209/086 A61M2016/0027 A61M2016/1025 A61M2205/3389 A61M2205/505 A61M2205/6027 A61M2205/70 A61M16/0069 A61M16/06 A61M2205/60 A61M39/10 A61M2039/1022 A61M2205/3372 A61M16/0066 A61M16/0683 A61M16/0666 A61M16/0816 A61M39/08 A61M2207/00 A61M13/003 A61M39/12 A61M16/0866 A61M2205/123 A61M2205/0216 A61M16/109 A61M2205/3334 B29C53/785 A61M16/0883 A61M16/1085 A61M16/16 A61M2205/3653 A61M16/1045 A61M16/0003 A61B2562/16 A61M16/1095 A61G11/00 A61M16/0875 A61M16/161 A61M2016/0033 A61M2205/3368 A61M2205/50 A61M16/08 A61M16/0841 A61M2205/52

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Forward Citations: WO17043981, WO17036500, WO16209129, WO16204632, WO16198478, WO16125122, WO16094423, WO16080847, WO15142192, WO15060731, WO14111083, USD772388, EP2968811, EP2928533,

Abstract:
Source: US2015027204A A humidification system comprises a first sensor and a second sensor. The first and second sensors are adapted to sense flow characteristics within the system. The first and second sensors are isolated from the flow by barriers formed by respective first and second sealing members. The sealing members extend through apertures formed in the system and have a portion that contacts the sensing elements of the respective first and second sensors. A cartridge can hold the sensors and provide repeatable penetration depths into a flow passage of the system. A medical tube has a composite structure made of two or more distinct components that are spirally wound to form an elongate tube. One component can be a spirally wound elongate hollow body; the other component can be an elongate structural component spirally wound between turns of the spirally wound hollow body.

0) US2009676A – SHOCK ABSORBER FOR MOTOR VEHICLES

49) Family number: 21741740 (US2009676A) © PatBase

Title:	SHOCK ABSORBER FOR MOTOR VEHICLES
Priority:	US19280320413 19281119

Family:

Publication number	Publication date	Application number	Application date
US2009676 A	19350730	US19280320413	19281119

Probable Assignee:	PENNINGTON ENGINEERING CO
Assignee(s):(std):	PENNINGTON ENGINEERING CO ; PENNINGTON ENGINEERING COMPANY
Inventor(s):(std):	PENNINGTON GORDON R
International class (IPC 8–9):	F16F9/14 (Advanced/Invention); F16F9/14 (Core/Invention)
International class (IPC 1–7):	B60G13/08 F16F9/10
CPC:	B60G2202/112 B60G2202/22 B60G2202/24 F16F9/145 F16F2222/02
European class:	F16F9/14B L60G202/112 L60G202/22 L60G202/24 R16F222/02
US class:	188/130 188/278 188/284 236/93R 267/224

Classification Explorer

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Abstract:
Source: US2009676A closure |'I_gt;1 to provide for the introduction of the liquid. In the operation of the device the charnber A constitutes a pressure chamber for resisting the upward movement of the piston I2 and thus checking reboundoi the vehicle springs while the chamber B serves as a pressure chamber to resist the downward movement of the piston 52 to check and control the compression of the vehicle springs. The features of construction byvwhich these functions are accornplished will now be explained. On comparison of Figs. 10, 11, 12 and 13 it will be observed that the shaft HE! of the piston is formed with a large axial bore 22 which extends substantially through the piston hub section of the shaft and opens through the end of the shaft section |2=. As shown in Fig. 13 the hub of the piston is formed with 9. radial passage 23 which leads from the pressure chamber A into an annular enlargement 22° of the axial bore 22. .And at approximately right angles to the passage 23 is a radial passage 24 in the hub of the piston, said passage leading from the axial passage 22 to the pressure chamber B, In the passage 24 is a spring pressed check valve 25 which permits Sow only in a radially outward direction through the passage EB. The conduit formed by the passages 23, 22 and 24 is controlled by a valve means comprising a valve body or valve proper 26. The valve body 26 which is made of metal is tubular In form with one endopen and the other closed. The open end 26° of the valve is of larger diameter than the closed end end 26a the plspart 25" annular bore 22. Junction portion 2v'5*=, the diameter of the larger being such as to nicely it the bore 22 of ton, while the diameter of the smaller is such as to afford a relatively large space between it and the wall of the The sharp annular shoulder 26° at the of the larger and smaller parts of the valve serves in conjunction with the wall of the annular enlargement 22" to nicely control liquid flow from the chamber A through the passages 23, 22 and 24 to the chamber B. The position of the valve in the passage 22 is determined by an elongated thermostatlc member 21 which serves in eEect as the stem of the valve. The valve stern or member 21 as shown is in the form of a slender cylinder or pencil of material having a. coeftlcient of thermal expansion ,differing largely from the metal composing the piston and its shaft. The material which I preferably employ for this purpose is ebonite which has a coefticient ,of expansion very much higher than that of iron or steel and is substantially unaffected by most liquids and chemicals. It will be noted that the valve stem 21' at one end its within the smaller section oi the valve 26, engaging the closed end of the latter, and from this point it extends throughout the length of the passage 22 and substantially through the shaft I3 which is bored out at 28 to receive it with an easy flt, the outer end of the bore being threaded to receive a screw plug 29 which serves as an adjustable abutment for the outer end of the valve stem. The plug 29 can be held in adjusted position by peenlng or by making it with a tight nt, At the inner end of the valve 25 and interposed between it `and the adjacent inner surface of the bearing boss Bl' is a four armed spring 30 which yieldingly presses the valve and the valve stem against the adjustable abutment 29. _ On reference to Figs. ll and 13 lt will be noted that the periphery of the hub portion ofathe piston is formed with a circumferentially `extending tapered groove 3| which communicates at its deeper end with a passage 32 extending radially inward from the groove 3| to the axial bore or passage 22; and diametrically opposite the passage 32 is a passage 33 leading from the passage Z2 into the pressure chamber A, this latter passage being controlled by a check valve 32 which opens radially outward and permits flow only in that direction. It will thus be seen that the groove 35, passage 32, passage 22 and passage 33 constitute a conduit ailording communication between the pressure chamber B and the pressure chamber A and that the effective capacity of this conduit varies with the angular nositlon of the piston $2 since the movement of the piston brings different parts of the tapered groove 3l adjacent the lower edge of the chamber wall Be. In other 'words the piston

hub 121' with its tapered groove 3| and passages 32, 22 and 33 and the said lower portion of the adjacent wall surface 9* serve as a. valve which diminishes the effective capacity of the _outlet conduit of the chamber B as the piston I2 moves downward, as viewed in Fig. 11. The object of this, as will presently more fully appear, is to gradually increase the resistance offered by the device to the compression of the vehicle springs. From the foregoing it will be seen that the two main pressure chambers A and B are joined by two conduits, namely, that formed by par:– sages 23, 22 and ZA and that formed by groove 3| and passages 32, 22 and 33, said conduits constituting parallel connections bctwcen the chambers A and B. While the thermostatic valve stem 21 is subject to the hydraulic pressure, this pressure is always that on the discharge or low pressure side of the throttle valves of the piston I2. Consequently the stem 21 could be made, if need be, of some material liable to deformation under heavy pressure, because the construction above described wholly obviates such heavy ,pressure on the stem 21. Furthermore, the construction of the valve 26– and its relation to the conduit controlled by it, are such that the valve In operation ls substantially balanced with respect to the fluid pressure in said conduit on the inlet side of the valve. In other words, the thermostatic element or part of the valve is not in any way subjected to heavy pressures or stresses and the conditions, therefore, favor its reliable operation. The fact that the hore 22, at both sides of valve 25, is always in free communication with a low pressure chamber of the instrument has another important advantage, namely, that liquid under pressure, leaking through the bearing of shaft extension |33 cannot accumulate and build up a pressure that would force the vane I2 against front plate ID and cause objectionable wear. At thetop of the pressure chamber A (Figs. 11 and 12) is an air bleeding passage 35 of small T0 T5 4 2,oo9,e7e ` bore which leads from the chamber A to the reservoir chamber C. This passage is controlled by a gravity check valve SG in a manner which will later be described. At the bottom of the pressure chamber B is a small passage 31 which leads from said chamber to the reservoir chamber C and which is controlled by a gravity check valve In the manufacture of the shock absorber I prefer to drill the holes in the intermediate casing part 9 and in the front part IU for the cap screws ll, Il about nl," larger in diameter than the cap screws so that a small amount of float is possible between the three main elements of the casing. I determine and hold the alignment of these three casing elements by means of the dowels ||*, the holes for which in the three elements are located in the machining process in the following manner. In the rear plate 8 the holes for the cap screws | | are drilled and tapped and the holes for the dowels ||“, as well as the bore designed to receive the bushing 8_lt;=, are machined in the same jig, the holes for the dowels being drilled JI" under size. After the bushing has been pressed into place the inside bore of this bushing and the dowel holes are simultaneously bored to exact size in a three spindle machine which will give the exactly correct spacing and diameter of these bores. Similarly the intermediate casing part 9 is Hrst drilled with the holes for the cap screws I I about 515' over–size and the holes for the dowels ll* about al,” under size, these holes being located from the inner finished surface 9° of the sector–shape wall of the casing member, said surface 9° and also the surface 9* having been machined by a broaching operation. 'I`he dowel holes are then bored to exact size and at the same time the surface 5° may, if desired, be additionally ilnish bored to correct for possible breaching errors. In the latter case the boring is done in a three spindle boring machine, while if only the dowel holes are bored a two spindle machine is used. In either case the part 9 is located in the jig from the surfaces Sb, Sb, thus insuring exact relative location of the dowel holes and the surfaces 8' and lb. The front part ||I of the casing can he machined in exactly the same manner as the back plate 8 or the following alternative procedure may be used. First the cap screw holes are drilled gh" over size, then the dowel holesare drilled J," under size, then the dowel holes are llnlsh bored and simultaneously the bearing boss IU* is bored, all of these operations being performed in the same jig. The part Ill may then be hardened, preferably by a nitriding process. and finally the bushing ll” is pressed into place and burnished. With either procedure the shaft bearing of the plate IU ls located by a boring operation in the bearing boss and with either procedure the result is that upon the assembly of the three parts the dowels will hold these in such position that the bores of the two bushings and the axis of the surfaces 8” and 9* will be in exact alignment. The plate IU is hardened, as above stated, to prevent objectionable wear of the contacting surfaces oi' said plate and the piston I2 incident to the pressure of the spring 2|. As has been stated, a link 1 serves to connect the crank 5 of the device with the axle 2 of the vehicle. The joints at the two ends of the link 1 are of novel construction and will now be described. The crank arm 5 ls bent laterally and ls formed with a spherical end 6* and the enlarged upper end of the link 1 is formed with an axial bore 1* to receive the bearing for the spherical end 61– of the crank, the side wall of the chambered part of the link being apertured at 1° to receive the laterally bent end of the crank arm. The bearing for the spherical end E' comprises a lower block 35 and an upper block both ot which are cupped to fat the spherical end G“ of the crank. ' Upon the plane top of the upper bearing block 40 rest four sector–shape blocks 4|, 4| which are formed at their top sides with conical surfaces of low pitch and have at their inner comets upstanding lugs 4|*, 4|‘. The under sides of the blocks 4| are recessed to accommodate a radially compresslble and expandible spring such as the spiral spring 42, the expansion of which tends to press these blocks 4| radially apart. Such radial movement of the blocks is prevented by the conlcal under surface of the screw plug 43 which engages the upper threaded end of the link and is locked in adjusted position by means of a snap ring 44 the lnturned end of which extends through an aperture Lu the side of the link 1 to engage any one of a circumferential series of sockets 45, 45 in the screw plug 43, The screw plug is preferably supplied with a lubricant Htting 45 through which oil or grease may be introduced to the bearing, it being understood that the side aperture 1° may be closed with a suitable boot or cover (not shown) in a manner that is well`known. It will be observed that the under side of the screw plug 4| is formed with a conical surface which flts the upper conical surfaces of the blocks II. The pitch of the conical surfaces is such that while the force of expansion of the spring 42 is sufficient to press the blocks 4| radially apart and thus press the upper bearing block 40 toward the lower bearing block 33 to compensate for the wear in the bearing, reverse or radially inward movement of the blocks cannot be caused by the forces to which the bearings are subjected. In other words the adjusting device is :non–overhauling. In the manufacture of the coupling just described, the blocks 4| are readily made from rolled steel bars of sector–shape cross section by assembling four such bars to form a round rod and machining them simultaneously in an automatic screw machine. In assembling–the coupling one end of a. short section of thin tubing (not shown) is passed over the lugs 4|' of the blocks 4| so as to hold the blocks together, the expansion spring 42 ls then inserted between the blocks and the latter inserted through the end of the link into position upon the bearing block 40. The screw plug 43 without the

lubricant nipple 46 is then screwed into position, the assembling tube referred to projecting through the threaded aperture of the block 43 in which the lubricant nipple 46 is later mounted. When the screw plug 43 has been screwed down into contact with the tops of the blocks 4l, the assembling tube referred to can be withdrawn, thus freeing the blocks 4| for outward movement by a spring 42 insofar as such movement is permitted by the plug 43. The lower end of the link 1 is connected to the axle 2 by means ot a bracket 41 which is detachably bolted in a well known manner to thc axle. The bracket 41 is formed with a spherical end HH. which is engaged by a bearing in the end of the link 1 differing somewhat in construction from that in the upper end of the link. The lower enlarged end of the link is bored out axially to receive anupper bearing block 48 and 9. lower bearing block 49 both of which are cupped to flt –_ s,oo9,evs‘ the spherical end 41=, the side wall of the link being formed with a lateral aperture 1° to receive the spherical end of the bracket 41. The lower bearing block 49 is threaded to iii: the correspondingly threaded axial bore of the link and is autoe matically adjusted toward the upper bearing block 48 to compensate for wear by means of s. helical spring 50, the upper end of which is anchored in the bearing block 45 while the lower end is anchored in a screw plug 50° which is adjustably secured in *he threaded bore of the link by means of 2. cotter pin 5\l‘=, When the parts are assembled the helical spring 50 is placed under tension so that it constantly tends to turn the bearing block 45 in the threaded bore in a. direction to adjust said block toward the block 43. In this way there is provided an automatic take~up to compensate for wear, and this can be accomplished by the use of the light spring because the low pitch of the screw threads of the bearing block 49 renders the device non–overhauling. On reference to Fig. 1 it will be observed that with the piston I2 in its normal or intermediate position corresponding to the normal load of the vehicle with the latter standing still or moving over a smooth and even surface, the crank arm 6 is in an approximately horizontal position and at an angle only slightly under 90° with the link 1, while when the vehicle spring 3 is fully compressed the crank 6 (as shown by dotted lines) has turned to a position approaching the vertical and is at a very acute angle with the link 1. In the use of my shock absorbers each vehicle is preferably fitted in the usual manner with a set of four of the devices, one to control the action of each of the four springs. In describing the operation of .the shock absorber shown in Figs. 1 to l'1 andfabove described, it is to be observed at the outset that while the apparatus can be designed as to size and proportions of parts, etc. to meet widely varying conditions of service, it is_especia1ly applicable to and is preferably designed for operation upon a cycle having the principal features of the cycle disclosed in my U. S. Reissue No. 17,409 previously referred to. That is to say, the apparatus is preferably designed to cooperate with vehicle springs that are softer or more iiexible than springs heretofore employed with other types of shock absorbers, the construction of the apparatus being such that it offers a resistance to the iirst part of the compression of the vehicle springs which is small and preferably so slight as to be practically negligible, i. e, unnoticeable to a rider in the vehicle, while after such initial compression of the springs occurs the resistance to further compression afforded by the shock absorber increases relatively rapidly as such compression occurs so that a large resistance is developed to supplement the resistance of the vehicle springs, the maximum resistance being reached at or near the end of the spring–compressing movement of the parts. On the other hand the resistance afforded by the apparatus to the rebound of the compressed vehicle springs is preferably never equal to the maximum resistance opposed to the compression of the springs but nevertheless attains a value at or near the normal position oigthe parts on their movement during rebound which is substantially greater than the resistance otiered to the hrst part of the spring–compressing –movement, The shock absorber is made ready for use by iilling its working chambers with a suitable liquid such for example as a 95 per cent solution of glycerin in alcohol. 'I'he filing may be accomplished by removing the screw closure H* of the casing and pouring the liquid into the reservoir chamber C, meanwhile swinging the piston from its lowermost position to its highest position and if necessary repeating this movement several times until it is certain that suflicient liquid is drawn from the reservoir C through the passage 31 ,into the lower chamber'B and from it forced into the upper chamber A so that both chambers B and A are completely nlled with liquid. It will be understood that when the piston I2 is swung from its lower to its upper position the chamber B is Hlled with liquid While air in the chamber A is forced out through the passage 35 into the reservoir chamber C and thence outward through the filling aperture, while on thc downward movement of the piston I2 the liquid in the chamber B istransferred through the passages in the piston to the chamber A. By repeating the movement oi thc piston it is insured that the chambers A and B are completely filled with liquid, and this having been done, the reservoir C may also be nearly dlled with the liquid to provide a. reserve supply. With the shock absorber mounted on the vehicle and the parts of the apparatus in their relative positions shown in the drawings, if the vehicle wheel strikes an obstruction the axle 2 is lifted, the spring 3 is correspondingly compressed and at the same time the crank arm 6 of the shock absorber is swung toward its dotted line position shown in Fig. I while the piston I2 is swung downward from its normal position as shown in Fig. 1 and Fig. 11. At the beginning of the downward movement of the piston I2 the liquid in th–e chamber B offers little resistance to the movement of the piston because the capacity of the valve groove 3| is great enough to permit a relatively frw outiiow of the liquid from the chamber B through said groove, passage 32, passage 22 and passage 33 into the upper chamber A, the check valve 34 opening to permit such movement of the liquid. However after the downward movement of the piston Q2 has continued for a certain distance corresponding to a. certain compression of the vehicle _spring 3 the more rapidly tapering form of the valve groove 3| causes a greater and greater throttling of the liquid flowing from the pressure chamber B so that energy is absorbed or dissipated in this way at an increasing rate as the piston continues its movement and correspondingly increased resistance to the compression of the spring ls afforded by the shock absorber. 'I'he resistance developed by the shock absorber will of course vary with the size of the obstruction and the velocity with which the vehicle strikes lt. I prefer to design the parts and clearances of the shock absorber so that it will offer suilicient resistance to the compression of the spring 3 to enable it and said spring to fully absorb all shocks that will ordinarily be encountered by the driver of average care and rely upon the rubber bumper 3* to supplement the shock absorber and spring in the case of the rarely encountered extremely heavy shock. I am thus enabled to make the shock absorber parts smaller and lighter than would be feasible if the rubber bumpers were notrelied upon as stated, and this is a consideration of considerable importance when the shock absorber works upon the cycle patented in my said Reissue No. 1'l,409_ Huw.. ever, it is to be understoodthat the groove 1| can be restricted to such a degree as to enable the shock absorber to carry out the functions of the rubber bumper, rendering the latter

l1l111€¢– essary. While the weight of the parts of the shock absorber and the closeness of nts must be increased if this is done, a distinct improvement in the riding quality of the vehicleis secured thereby because the shock absorber, unlike the rubber bumper, ceases to exert a separating force between the axle and the frame the moment these parts cease to .approach each other, with the result that the energy and rebound tendency imparted to the frame is less than when the rubber bumper is used. For those cars ,for which the best obtainable riding quality is more important than cost it will be desirable to eliminate the rubber bumper and have the shock absorber perform its function. When the upward movement of the axle 2 ln relation to the frame l ls arrested the spring l tends to return to its normal loaded form and this so–called “rebound” of the spring starts to swing the crank arm 5 downward and the piston l2 upward. This movement of the piston places the liquid in the chamber A under pressure and forces it through_ the piston passage 13, past the thermostatic valve part 26° into the passage 22 and thence through the passage 2| and past the check valve 2| into the pressure chamber B. The positioning of the tbermostatlc valve 25 ls such that a sulllclent resistance is offered to the outflow of the liquid from the chamber A into the chamber B to adequately check the rebound of the springs. When relatively soft and flexible suspension springs are employed and the shock absorber is designed, as preferred, to adequately supplement the resistance of the springs to compression when obstructions are encountered the force of this resistance afforded by the shock absorber is relatively large at its maximum and the resisting force atforded by the shock absorber to the rebound of the spring would never exceed the said maximum resistance to the compression of the spring and ordinarily would at all times be less than said maximum resistance, while it should materially exceed the minimum resistance afforded to the compression of the Springs at the time the parts are at or near their normal position in the rebound movement. I prefer to make the resistance to the rebound of the springs at the time the shock absorber parts are at or near their normal position in the rebound movement' of a substantial amount in excess of the minimum of resistance afforded to the compression of the springs, as Just stated, because the shock absorbers in this manner add Sreatly to the lateral stability of the vehicle. or in other words greatly resist the tendency of the body of the vehicle to rock or SWE? laterally while it ls paslng over surfaces that may be smooth yet sutllciently undulating to cause such rocking or swaying. This feature of the apparatus is of especial importance when the shock absorbers are designed to operate upon the cycle patented ln my aforesaid Reissue No. 17,409 since with that cycle of operation the resistance of' the shook absorbers to the com.– llresslon of the springs when the parts are at or near their normal positions must be so small as to be practically unnotlceable in order that the advantage of the sott vehicle springs may be had, and consequently the said resistance to the compression of the springs is not sutllcient to adord the lateral stability referred to and lt ls only by making' the resistance to the rebound force of the springs amply large when the parts _ a,ooo,s7e t ' are at or near their normal positions that the said lateral stability is attained. The character of the forces set up in the pressure chambers A and B of the preferred form of the device is illustrated by the diagram shown In Fig. 3. In this diagram the forces are measured vertically above and below the horizontal line or axis 1:–as. The vertical line 11–11 represents the normal position of the shock absorber piston l2 and movement of the piston in either direction from that normal position is measured horizontally on the axis l–1:. In the diagram the full line curve a and the dotted line curve Z1 represent two complete cycles of the piston movement such as occur when the wheels of the vehicle strike an upwardly projecting obstruction, the curve a corresponding to a larger obstruction than the curve b or to an obstruction encountered at greater speed than that represented by the curve b. Considering the full line curve a. it will be observed that when the obstruction was encountered there was a considerable downward movement ol’ the piston l2 during which there was very slight resisting pressure set up in the chamber B, this pressure being represented by the practically horizontal section al of the curve a to the right oi' the vertical line y–y. However, as the downward movement of the piston l2 continued, the rapidly tapering end portion of the valve groove 3| caused a rapid increase of the pressure in the chamber B which is represented by the sharply upwardly inclined portion zz’ of the curve. The pressure reaches its maximum value at the point al near the end of the downward movement of the piston l2 and then, as the speed of the piston movement rapidly dimlnishes, the pressure in the chamber B correspondingly rapidly falls as indicated by the portion a* of the curve, the pressure falling to zero of course at approximately the end of the piston movement. At this point the rebound movement of the spring l begins, causing a reversal of the movement of the piston l1 and the relatively rapid building up of pressure in the chamber A which is represented by the portion af' of the curve. The pressure in the chamber A measures the resistance to the rebound of the spring and after reaching a maximum continues at or slightly below that maximum value for a portion of the rebound movement and then falls off as the vehicle and shock absorber Darts approach their normal positions represented by the vertical line y–y. 'I‘he momentum of the parts moved by the rebound or expansion of the springs carries said parts beyond their normal positions and the pressure in the chamber A continues but with diminished intensity as indicated by the section as of the curve to the left of the line 14–11, the pressure retumlng to zero at or near the end of the rebound movement. From this latter point the parts are retumed again to normal position, the piston l2 moving downward and creating the very slight pressure in the chamber B represented by the section al of the curve. The dotted line curve bln the diagram, Fig. 8, represents the pressures set up in the chambers A and B when the vehicle encounters a lesser shock or obstruction than that represented by the curve a, the curve being of the same general character as the curve u but indicating the lesser pressures generated. While the curve illustrating the cycle of force variations will vary in form with the speed of the vehicle and the contour ot the road, curves a. and b represent usual forms. The size and taper of the valve groove 3| in the hub of the piston l2 are preferably determined empirically `to satisfy the conditions of operation determined by the size and weight of the vehicle upon which the shock absorber is to be used, However the effect of the valve groove 3| can be varied quite materially by angularly adjusting the piston l2 in relation to the crank arm 6, this being accomplished by angular adjustment of the crank on the piston shaft which is permitted by the toothed or serrated surfaces of these parts. By such adjustment of the shock absorber piston in relation to its crank arm the device can readily be adaptedjto the dilferent weights of the open and closed types of bodies of a car model of a given wheel base. To facili1 tate the positioning and adjusting of the crank on the piston shaft reference marks may be placed on the adjacent surfaces of these parts where they are engaged by the washer lS. In Fig. 11 the full and broken lines represent three of the different positions to which the piston l2 can be angularly adjusted for a given angular position of the crank 6. Similarly the position of the valve 2E is

empirically determined in order that it may afford the desired resistance to the rebound of the springs, the position of the valve, as previously described, being determined by the adjustment of the abutment plug or screw 28. When once this adjustment has been determined for a given vehicle the resistance is automatically main~ tained at a nearly constant value, regardless of temperature changes, by reason of the diiferential expansion of the valve stem 21 in relation to the metal parts of the piston and its shaft. It will be apparent that a relation exists between the perimeter and width of opening of the valve part 26° and the ditferential expansion of the valve stem 21 and the metal piston and shaft structure, so that the diameter of the bore 22 in the piston, which in turn determines the effective diameter of the valve 26, will be determined by the said diiferential expansion, which in turn is determined by the length of the stem 21 and the respective coenicients of expansion of the stem and of the said metal structure, In the operation of the shock absorber when the piston I2 starts its upward movement the pressure in the chamber A causes nuid in the chamber to enter the air bleeding passage 35. If any air has found its way into the chamber A it first passes the ball valve 36 and then as soon as liquid enters the passage 35 the ball valve is lifted by the flowing liquid against the seat above the valve thus effectively closing the passage as long as pressure ls maintained in the chamber A. If during this upward movement of the piston I2 liquid ls not delivered from the chamber A into the chamber B rapidly enough to keep the latter chamber nlled a corresponding lowering of the pressure in the chamber B would result and thereupon liquid from the reservoir C will be drawn past the check valve 38 through the passage 31 into the chamber B to make up the deficiency, therein. When the piston I2 moves downward the valve 33, of course, remains upon its seat and keeps the passage 31 closed. Wliile any air present in the reservoir chamber C naturally collects at the top of said chamber the churning of the liquid in said chamber may cause absorption or occlusion of slight amounts of the air in the liquid therein so that slight amounts of air may pass through the passage 31 into the lower chamber B, but any small amount of air thus entering the chamber B promptly tlnds its way in the operation of the apparatus through the piston passages into the upper chamber A whence it is discharged in the manner previously described through the bleeding passage 35'back into the reservoir chamber C. _ It will be observed that in the operation of the shock absorber any slight leakage of liquid that may occur from the pressure' chambers A and B is received by the reservoir chamber C from which the supply of liquid in the chambers B and A is constantly replenished. Any leakage of liquid from the reservoir chamber C must occur between the iiange I9 of the casing member I1 and the adjacent face of the crank arm G, and such leakage is practically completely prevented by the packing 20. This packing, I believe, has novel and advantageous characteristics. The spring 2| pressesthe packing as an entirety outward against the inner face of the crank arm G. This has the effect of pressing both the metal ilange 20“' and the outer side of the soft ring 20" against the said face of the crank arm; and it has the further effect of expanding the soft rings 20° and 20° laterally against the inner wall of the casing flange I9 as well as against the outer wall of the metal ring 209. The eEect is to form liquid tight joints between the rings 20” and 20° on the one hand and the ilange I9 and the ring 202 on the other hand and the friction between these parts is greater than that between the packing 20 and the face of the crank 6 so that the packing ring is held against turning and a sliding contact is maintained between the packing 20 and the crank E when the latter turns. In this connection it may be observed that the metal ring 20d tends to reduce the angular movement or distortion of the packing under reversals of the crank movement. At the beginning of the service of the device reliance can be placed upon the soft packing ring 20” of rubber or the like to maintain the joint between the packing 20 and the crank 6 tight and by the time wear of the packing 20” has occurred the metal flange 20= and the face of the crank 6 engaged by it will have worn in to form a good liquid tight metalto–metal joint, and this joint is indelinitely maintained in the operation of the apparatus, It will readily be appreciated that in a. shock absorber operating upon the cycle which characterizes my previously mentioned Reissue No. 11409, which operates in conjunction with very soft or flexible vehicle springs and which must therefore afford correspondingly high resistances to the compression of the springs, the forces transmitted by the connection between the vehicleaxle and the hydraulic parts of the apparatus attached to the chassis frame and the axle structure are of considerable magnitude in both directions, Consequently it is essential that the joints connecting the link 1 to the crank arm 6 and to the axle bracket 41 should not only be amply strong but susceptible of adjustment for wear. These conditions are well met by the link joints at the upper and lower ends of the link. Notwithstanding the heavy forces transmitted by the link the very light spring 42 (or 50) serves to maintain the ball end of the link and its bearing blocks in operative contact because of the* non–overhauling character of the takeup, and the use of such a light spring insures light bearing pressures except when heavy stresses are being transmitted through the coupling and this correspondingly diminishes wear of the bearing. Obviously the c.nstruction also affords a free or fl 8 V 9,009,516 ‘ A universal movement characteristic of the ball and socket joint so that there can be no binding in the joints. I have already pointed out the changing angular relation between the link 1 and the crank 6, the angle increasing from nearly right angles when the parts are in their normal/position as shown in full lines in Fig. 1 to a relatively small acute angle when the spring 3 is fully compressed. On reference to Fig, 1 it will be observed that the wide variation of this angular relationship is made possible by the fact that the axis of the piston shaft is relatively close to the front side of the shock absorber casing so that when the link 1 has 'been swung backward to the dotted line position shown in Fig. 1 it ls relatively close to the said axis and makes the relatively small angle with the crank 6 which was referred to. Since it is highly desirable to avoid the use of overhung bearings, this latter feature is one of considerable practical importance in hydraulic shock absorbers which must afford the high resistances to spring compression necessary where very soft or flexible springs are employed, the significance of the arrangement being that as the pressure in the chamber B rapidly increases (as shown by the section 112 of the curve a in Fig. 3) to its high maximum value the mechanical advantage with which the spring compressing force is applied from the axle 2 of the vehicle to the piston I1 of the shock absorber is simultaneously diminished by the change of the angular relation between the link 'I and the crank 6 so that the size and strength cf the liquid pressure parts of the shock absorber apparatus can be made substantially smaller than would be feasible if the said mechanical advantage were not changed as described, and still be adequately strong to perform their functions. It is to be observed that the fundamental principle here involved is embodied in the shock absorber construction disclosed in my previously mentioned Reissue No. 17,409 in which construction a reciprocating type of. piston is employed. In the present construction I am enabled to utilize the same principle by adopting a single oscillating vane type of construction which permits the use of an

eccentric casing with the axis .of the piston shaft near one side of the casing. _This type of ,construction has a very distinct additional advantage in 9. shock absorber designed to resist the compressive force of a soft vehicle spring. That is to say, the single vane form of construction is peculiarly adapted to furnish thewery great resistance capacity necessary for such service since with it the necessary capacity can be secured with a casing structure smaller, more compact, lighter in weight and less costly than is possible where a. multiple vane construction is used, because the capacity of a vane type piston varies as the square of its mean effective radius and my studies have shown that because of this principle a distinctly higher degree ot compactness can be obtained for high capacity shock absorbers by the use oi' the, single vane piston. The method of machlnlng the peripheral walls of the sector–shape chamber of the main casing of the shock absorber is highly advantageous because of its relatively low cost. This method is made possible, without sacrifice of desired accuracy, by the three–part construction of the main casing and by the novel method of machining the dowel holes ..nd piston shaft bearings by locating them with reference to the breached surfaces. By combining with these features the outer welded–on casing member I1, I provide a reserve reservoir of large capacity, obviate the necessity of making the joints between the three casing parts 5, 9 and IU absolutely liquid tight and secure a structure with a. smooth and highly pleasing exterior. _ The provlslcn`of a piston construction that Includes all passages, ports and valves controlling the flow of liquid between the two main pressure chambers combines many of the machining operations in this single part of the apparatus and thereby facilitates manufacture. Other advantages Incident to the construction above described and more or less common to the other forms of construction yet to be described will be pointed out below more fully. Referring now in detail to the form of appara–_ tus shuwnvin Figs. 18 to 28 inciusive, 5l is the channel side bar of an automobile chassis frame, 52 ls the front axle of the automobile and 53 is one of the semi~elliptical springs upon which the chassis frame is suspended In the usual manner from the front axle. 53° is 9. rubber bumper secured to the upper side of the spring 53 so as to engage the under side of the frame channel 5| when the spring 53 is fully compressed. 54 designates as an entirety the main body or casing part of the modified form of shock absorber, said casing being rigidly secured to the frame channel 5| by bolts 55, 55. 5| is the operating crank arm of the shock absorber and 51 is a link by which the crank arm is connected to the axle 52. In Figs. 19, 23, 24, 25 and 26 is shown the con– –struction of the main or body part of the shock absorber. There ls a casing structure which comprises a rear plate–like part 55, an intermediate part 55 and a front plate–like part GU. Preferably the part 58 is a steel forging and the parts 59 and GB are iron castings. As in the first form of,construction, the 'parallel side surfaces of the intermediate casing part 59 nicely fit the adlacent plane surfaces of the rear and front parts 58 and SU, and the three parts are tightly and rigidly secured together by through bolts 6| and Gil, The larger bolts Sl* suitably flt the apertures in the parts 55, 5! and 60 to serve as dowels. The intermediate casing part 58 is formed with lugs 5B', 58° to receive the securing bolts 55, 55 previously referred to. Additional parts and features of the casing structure will later be described. As indicated in Fig. 24, the intermediate casing Dart 59 forms the peripheral wall of an approximately sector–shape chamber. In this chamber is fitted a. piston 51 of the vane or swinging type. said piston comprising a vane part 52' having a web and flange construction as clearly shown in Figs. 23 and 24, and a cylindrical hub part 62° which carries the vane. The said hub part of the piston ls rigidly and preferabfy integrally connected as shown to a. shaft 63 which extends through the front casing member 5| and which ls smaller in diameter than the piston huh and is rotatably supported in a bearing boss CI' of the casing member, said bum being Iltted with a suitable bushing 55", The peripheral wall of the sectorslzape chamber of the casing ls formed with a hollow cylindrical extension at ll* to accommodate the hub part II” ot the piston (Fig. 24). The chamber wall at ill and at Sl", the inner plane surfaces of the casing parts 5| and 81| and the various surfaces of the piston which are adjacent to and cooperate with these casing surfaces are all machined or tlnlshed fn afford working nts between the piston and the walls of the casing member that will prevent undue leakage of the T0 T5 working fluid from one side of the piston to the other. To provide a. reserve reservoir for working fluid, the front casing member GU is formed on its outer side with a chambered extension 60” of a sectorshape corresponding approximately to the shape of the main chamber of the casing, the reservoir chamber being connected, in a manner which will later be explained, to the main chamber of the casing. The crank arm 56 of the device ls mounted on the outer projecting end ot' the shaft 83, the shaft and the aperture of the crank arm being toothed or serrated at G4 so that the crank can be placed on the shaft and rigidly held against turning in diiierent angular positions in relation to the shaft and the piston 62. The crank is secured agalnst axial movement on the shaft by a closed nut 55 which engages the threaded end of the shaft and an interposed washer $6 of soft metal or other ,suitable material is interposed between the nut and the outer face of the crank arm so as to tightly seal the joint between the crank arm and the shaft. An annular packing 61 surrounds the outer end of the bearing boss GBR of the casing and is interposed between the inner plane face of the crank arm ‘JE and the oppositely disposed parallel surface afforded by the outer side of the reservoir SU” and a shoulder–like extension 6 ° of the bearing boss We (Fig. 23). The annular packing E1 comprises a ring S1“ of soft (or deformable) and resilient liquid tight or liquid repellant materal, such as rubber, and a. metal ring 61” which surrounds the 1 ing 61” and is formed with an inwardly turned flange 61\=', the outer face oi' the said flange S1°' and a. portion of the outer face of the soft ring 51” being arranged to engage the adjacent inner face of the crank 5E while the inner side of the ring 51” alone engages the oppositely facing surface of the casing structure. The dimensions of the soft ring E1“ are such that said ring is placed under pressure arid deformed when the parts are assembled with the result that the surfaces of said ring are tightly pressed against all of the surfaces with which the ring contacts and at the same time the flange B1‘_gt;' of the metal ring 61” is yieldingly pressed against the inner face of the crank SE. With this construction an effective seal is provided preventing any material leakage of liquid around the shaft 63 and between the casing and the crank 56. ‘ As indicated in Fig. 24, the piston 62 divides the sector–shape cavity of the casing structure into a chamber A’ above the piston and a chamber B' below the piston; and as is shown in Figs. 23 and the reservoir extension 60° provides a reservoir chamber C’. In the operation of the device the chambers A’ and B' and the chamber or reservoir C’ are occupied by a body oi' liquid which constitutes the working Huld of the device, glycerin or oil of suitable consistency being preferably employed. The reservoir 60” is provided at its upper side with a fllling aperture and with a. suitable screw closure 65 to provide for thelntroduction of the liquid. In the operation of the device the chamber/ A' constitutes a pressure chamber for resisting the upward movement of the piston G2 and thus checking rebound of the vehicle springs

while the chamber B' serves as 9. pressure chamber 'to resist the downward move~ ment of the piston SZ to check and control the compression of the vehicle springs. I shall now describe the features of construction which provide for the carrying out of these functions. As shown in Figs. 23, 24 and 25 the hub of the piston is formed with a large axial bore 69 comprising a screw threaded section 59° of' large diameter and a section 691' of smaller diameter. As shown in Figs. 24 and 25 the inner face of the casing member EB is formed with a groove TU which forms a passage connecting the chamber A' with the inner end of the bore 69 of the piston hub. 1| is a radial passage (Fig. 24) formed in the hub of the piston and affording communication between the smaller diameter section 69” of the bore 69 and the pressure chamber B', said passage 1| being controlled by a. check valve 12 which permits Row only in a radially outward direction through the passage. The conduit formed by the passages 10, 69 and 1| is controlled by an automatically operating thermostatir Valve 13 which is disposed in the larger section 69° of the bore G9 and is connected to an elongated stem 13' formed of material having a coeflicient of thermal expansion differing very substantially from that of the metal of Which the piston 62 and shaft 63 are formed. I find ebonlte a suitable material for the valve stem 13' and prefer to form the valve 13 and the stem 13' integrally from this material. The shaft B3 is drilled out as shown to accommodate the elongated valve stem 13’. In the enlarged section GSB of the bore 69 ls mounted an apertured valve seat 14 which has a threaded periphery to engage the internal threads ofthe bore 69 so that the valve seat. can be adjusted toward and from the valve 13. A coll spring 15 interposed between the casing member 58 and the valve 13 presses said valve yieldingly away from the seat 14 and maintains the outer end of the valve stem 13' in engagement with the abutment formed by the closed end of the bore of the shaft which accommodates said stem. –It will be seen that by adjustment of the valve seat 1l the valve 13 may be made to afford a nice control of the now of liquid from the pressure chamber A’ through the passages 10, 69 and 1| to the chamber B', and this control automatically substantially compensates for temperature variations because of the differential expansion of the valve stem 13' and the metal of the piston E2 and its shaft 63, ebonite having a substantially greater coemclent of expansion than the metal. The valve seat can be secured in adjusted position in any suitable manner, as by upsetting the screw threads with a suitable tool or by giving the seat a sufficiently tight an in the threaded bore. g As shown in Figs. 23 and 24 the hub 62° of the piston is formed with a radial passage 15 which communicates at its inner end with the bore and at its outer end is arranged to communicate with a tapered groove 11 formed in the surface 59° of the casing. In line with the passage 16 is a passage 18 in the piston hub, said passage being controlled by a check valve 19 which permits flow through said passage only in a radially outward direction. The groove 11, the passage 16 and the passage 18 constitute a. conduit affording communlcatlon between the pressure chamber B’ and the chamber A' and lt will be observed that the capacity of this conduit is automatically varlecl as the piston moves as by such movement the outer end of the passage 16 is brought into communication with dillerent parts of the tapered groove 11, the capacity of the conduit heing diminished as the piston G2 moves downward during the compression of the vehicle spring. Consequently the el1'ect of the taper of the groove 11 is to gradually increase the resistance ' p 2,009,676 ` offered by the device to the compression of the vehicle springs. In this second form of the apparatus, just as in the trst form, there are” two conduits forming parallel connections between the two main pressure chambers, the one conduit being formed by passages 10, G! and 'll and the other conduit by groove 11, and passages 16 and 18. ' At the top oi the pressure chamber A’ (Figs. 19 and 25) is an air bleeding passage 88 which adords communication between the top of the chamber A' and the reservoir chamber C’, said passage being controlled by a valve BN in a manner which will later be explained. At the bottom of the pressure chamber B’ is a small passage ll (Figs. 19 and 26) which affords communication between the reservoir chamber C' and the pressure chamber B’ and which is controlled by a check valve 82 which is subject to a very light spring pressure. While it is possible to machine or finish the meeting surfaces of the casing parts 58, 59 and S0 so that leakage of liquid from the pressure chambers A’ and B' is thereby practically completely prevented, I prefer to provide additional assurance in this regard. To this end the lateral surfaces of the intermediate casingpart 59 are provided with shallow grooves 59C and 595 which extend entirely around the sector–shape chamber ol' the casing inside of the secxu–ing bolts lil. These shallow grooves can be pressed in the faces of the casing member 59. The groove 59° is connected by a passage 59° (Fig. 23) with the groove 59° and the latter groove ln turn is connected by 9. passage Glld with the reservoir chamber C'. It will thus be seen that any liquid Ending its way lromthe sector–shape chamber of the shock absorber between the meeting faces of the casing sections will enter the grooves 59° and 59° and as any liquid thus entering these grooves cannot be under pressure it will readily drain into the reservoir chamber C'. The joints at the two ends of the link 51 which operatively connects the crank 56 to the axle 52 of the vehicle are ot novel construction. The crank arm 58 is bent laterally as shown in Fig. 23, to avoid overhanging of its supporting bearing, and is formed with a. spherical cupped end Elin while the link 51, which is preferably formed with a channel section to secure the combination of lightness and strength, has its upper end ccrrespondingly formed with 9, spherical cupped section 51°. 'I‘he parts Eif* and 51” are apertured as shown in Fig. 23 to receive a coupling pin 83, said pin fitting the aperture in the part 51" while the larger aperture formed in the part 56“ affords a considerable clearance between the latter part and the pin. The pin B3 has a head 83° the lnner side of which has a spherical form to lit the adjacent abutting spherical surface of the part 551. On the smaller end of the pin B3 is a disk 84 which ls recessed on its outer face to receive a locking pin 85 which extends transversely through the pin 83. Between the disk B4 and the adjacent convex surface of the part 51° of the link is a split ring 88 having normally the shape shown in Fig. 28. In assembling the parts the pin I3 can be passed through the crank, link, and disk M and the securing pin 85 placed in position, then the snap ring 86 can be placed upon the sloping surface ll* of the disk 8| and forced over the periphery of said disk, whereupon it snaps into position between said disk and the convex face of the link as shown in Fig. 23. The resiliency of the ring li causes it to contract and thus hold the spherical surfaces of the crank, link and pin B3 in snug contact with each other so that as wear ofthese contacting surfaces occurs the spring ring BS automatically takes up the slack and compensates for the wear. The pin 83 is preferably provided with a lubricant nipple 83° and suitable passages to conduct the lubricant to the contacting spherical surfaces of the connection. The lower end of the link 51 is connected to the axle 52 by means of a bracket 81 which is clamped to the axle 52 in the usual manner and is formed with a concave–convex end which is secured to the lower end of the link 51 by means of a. joint or connection similar to that which connects the upper end of the llnk to the crank, so that the lower connection need

not be further described. Hgs. 18, _19, 23, 24 and 25 represent the parts of the apparatus in their normal positions corresponding to the normal load 01' the vehicle with' the latter standing still or moving over a smooth and even surface and it will be observed that with the piston B2 in its intermediate position the crank 55 is in an approximately horizontal position and at an angle only slightly less than 90° with the link 51, while when the vehicle spring 53 is fully compressed the crank 56 (as shown by the dotted lines in Fig. 18) has turned to a position approaching the vertical and is at a. very acute angle with the link 51. It will be understood that in the use of the second form of shock absorber now being described. just as in the case of the first form ol' construction, the vehicle is preferably fitted in the usual manner with a set of four of the devices, one to control the action of each of the four springs. As in the case of the first form of construction the second form of apparatus, while it can be designed as to size and proportion of parts, etc. to meet the Widely varying conditions of service, it is especially applicable and is preferably designed for operation upon the cycle disclosed in my previously mentioned Reissue Nol 17.409, The shock absorber is prepared for use by introducing a suitable liquid into its working chembers and its reservoir, a 95 per cent solution of glycerin and alcohol being preferred for this purpose. The Hlllng may be accomplished 'oy removing the screw closure E8 01' the casing, pouring the liquid into the reservoir chamber C' and then proceeding substantially as ln the illling of the ilrst form oi shock absorber as above described. _ With the second form of apparatus mounted on the vehicle inthe manner described its operation is substantially the same as that of the tlrst described shock absorber and it is believed that the operation will therefore be readily understood without further description. It will also be obvious that in order to insure that the second form of apparatus will function in the manner illustrated by the diagram of Fig. 3, the size and taperof the groove 11 and the adjustment of the seat 14 of the therxnostatlc valve 1| will be determined empirlcally to suit the character of the car upon which the apparatus is to be used. It will also be understood that as in the first form of construction the edect of the tapered groove 11 can be varied to a certain extent by angular adjustment of the piston 82 ln relation to the crank arm 56, three of the different positions of adjustment of the piston being indicated by the full and dotted lines in Fig. 24. It will be further understood that the mod– 2,ooo,evs 1 1 iiied form of packing 61 employed in the second form of construction functions in a manner equivtlent to that of the packing 20 in the first form of construction, the resilience of the soft ring 61" in the second form of packing being relied upon to keep the packing surfaces in contact with the respective surfaces without the use of supplemental means such as the spring 2| employed in the first form of construction. Except for the formation of the passages 10 and 11 in the casing structure in the second form of the device, the piston construction has the advantage, pointed out in ccuncction with the nrst form oi' construction, that many machining pperations are combined in the one piston part thus greatly facilitating manufacturing operations. In the sceond. form of construction the ball and socket couplings of the link 51, while markedly different structurally from the link couplings of thc first construction, yet embody the same principle that the spherical surfaces of the coupling are maintained in working contact, regardless of wear, by a relatively light spring which is rendered effective by the non–overhauling feature of the wedging action ,which the spring 86 has between the adjacent surfaces of the parts 51s and Bd. In the case of the second form of ccnstruction. and for that matter in the ease of the nrst form of construction also, the empirical adjustment of the thermostatic valve may be eiTected in a suitable testing fixture in which the piston may be mounted and have its passages subjected to standard hydraulic pressures and adjustmcntof the thermostatic valve or of its scat eiccted to secure a desired eiiect known by test to correspond to the desired operation of the assembled mechanism under actual working conditions. In the third form of construction shown inFigs_ 29 to 35 I have embodied my novel thermostatic rebound control valve and a modliied form of valve for automatically controlling the resistance to the spring compressing forces, in a doubleacting apparatus employing two plunger–type pistons operating in separate cylinders. In this form of construction there is a casing structure BI comprising the main casing part SI" and a cover part 9l1= which is secured to the body of the casing 9|° by cap screws 92, 92, preferably with an interposed gasket 93 to form a, liquid tight joint. The casing structure is formed with two upright cylinders SI" and 9|d. In the cylinder 5|= is a trunk type piston 94 and in the cylinder BI" is a similar piston 95. These pistons may be made by die casting and in such event the heads of the pistons are provided with harcl steel inserts 94a and 955, respectively. The two pistons are yieldingly pressed upward by suitable springs 95, 96 which engage the bottoms of the cylinders and the under sides of the piston heads. The two pistons are formed with small air bleeding ports 94" and S5". respectively. which extend through the side walls of thc pistons adjacent the heads thereof. With the pistons operatively mounted in the casing structure as ,described the interior of the casing is divided into two pressure chambers A" and B" and a reservoir chamber C". The side walls of the casing structure at the upper part thereof are provided with bearings 91 and S8 for the shaft 59 of an actuating crank lG0. The shaft and crank are rigidly and preferably integrally connected together. The bearings 91 and.!|8 are preferably provided with suitable bushings 91° and 9B". Within the reservoir chamber C" of the casing is a piston actuating member l I which is rigidly secured to the shaft 99 by n{ tapered pin |02 and a screw plug |03 by means of which the tapered pin is forced and held in firm engagement with the shaft and the member IDI. The dimensions of the parts are such that when they are assembled as shown in the drawing the faces of the crank |00 and of the member IDI are held in close contact with the adjacent faces of the bearing 91 so that the bearing is rendered practically proof against leakage of liquid. though if desired a packing ring may be interposed between the inner side of the crank arm and the end of the bearing 91. Leakage through the other bearing 98 is prevented by a plate S06 which is forced into the aperture of the bearing with a tight flt. The member 10| is formed with piston–actuating arms IDI" and I0 I U which engage the hardened inserts of the pistons 9| and S5 respectively so that when,the shaft is rocked in one direction the piston 94 is forced downward while the other piston is permitted to rise under the pressure of its spring 96 and when the rock shaft is turned in the opposite direction the piston 95 is forced downward while the piston 9| is permitted to risc under the pressure of its spring The apparatus is designed to have a body of suitable liquid such as oil or the glycerin solution previously referred to, introduced into the pressure chambers A", B" and the reservoir C" so as to 1111 the pressure chambers and at least partially fill the reservoir. To provide for suitably controlled movement of the pistons SI' and 95 the casing structure is provided near the lower part thereof with passages constituting two separate conduits between the pressure chambers A" and B", said conduits forming, so to speak, two parallel means of communication between the two pressure chambers. One of these conduits is formed in part by a valve chamber |05 (Fig. 33) which at one side is connected by a zig–zag passage |08 with

pressure chamber B", while at its other side it is connected by a passage' |01 with' the pressure chamber A", the passage |01 being formed partly in the casing structure proper and partly in a screw plug |03 which closes the lower end of the valve chamber |||5. The passage |06 is provided with a spring pressed check valve Ill! which permits liquid How in one direction only, viz. from the chamber A” to the chamber B”. The passage of liquid through this conduit is further controlled by a valve ||0, the lower peripheral edgc of which cooperates with the adjacent annular upper face of the plug |08 to restrict dow of liquid through the passages |08 and HIS. The valve ilil has an elongated stem HUP* which extends upward in a suitable bore formed. in the casing structure as shown in Fig. 31. the upper end of the bore forming an abutment against which the stem. is pressed by i–he spzing ||I interposed between the valve H0 and the plug l0B. The valve stem ||0= is made of material, such as ebcnite, having a higher coeillcient of thermal expansion than the metal casing structure, and preferably the valve ||0 and its stem IIB" are integrally formed of the same material. It will be observed that a washer H2 is interposed between the ilanged head of the plug |08 and the casing and, by providing washers of different thicknesses. the upper annular face of the plug can be adjusted to diiferent positions relative to the valve H0 by the use of different washers. . ~ The second conduit affording communication between the 'lower ends of the chambers A" and 1 2 _ _ 2.oo9,e'm ~ B" ls formed in part by a valve chamber Ill which is provided by forming the middle part of the main. casing with an upright cylindrical bore extending from the bottom of the casing member to the ruervoir C" at the upper end thereof. Thevconduit in question consists further ofva zig–zag passage Ill extending from the valve chamber H3 to the pressure chamber A", the passage IM being provided with a spring pressed check valve H5 which permits dow only from the valve chamber to the pressure chamber A". The said conduit is completed by the passage IIS which is formed in part in the main casing member BI” and in part in a. screw plug H1 which closes the lower end of the valve chamber I I 3, the said passage H6 affording communication between the latter valve chamber and the pressure chamber B". The second conduit that is provided between the pressure chambers A” and B" has in addition to the cheek valve H5 a further controlling means in the form of a valve Ill which cooperates with a seat ||`|° formed on the upper end of the plug ||1. The valve H8 is provided with a compound thermostatic stem designated as an entirety by IIB and comprising a tubular part Il e which rests upon the valve IIB, a second tubular part I |911 within the part I I 9° and a rod like part ||9° within the tubular part I lib. The part HQ" has its upper end flanged outward to rest upon the upper end of the part HSI* and its inner end flanged inward to support the part |I9=. The parts H91 and I|5° are formed of some material. such for example as ebonlte, having a higher coefdcient of expansion than metal while the part HS” is formed of metal. The upper end of the stem part ||8¢ is fitted with s. hardened metal cap ||9d which is designed to engage with a cam

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US class: 1/1 128/898 128/898S 604/8 604/8P 604/9 606/153 606/153P 606/191 606/191P 606/192 606/192P 623/23.64 623/23.65 623/23.650P 623/23.67 623/23.670S 623/23.68

Classification Explorer

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Forward Citations: WO17029655, WO16088055, WO16067087, WO15168402, WO14210075, WO14145799, WO14055997, WO14012041, WO13185830, WO13087096, WO13049779, WO13049167, WO13026474, WO13026473, WO13023679, WO13023675, WO12148727, WO11099940, US9636245, US9622897, US9597215, US9566181, US9554932, US9526648, US9456917, US9452072, US9451960, US9326879, US9283396, US9278019, US9211182, US9198791, US9180036, US9173760, US9173734, US9125660, US9044300, US8821429, US8784354, US8702641, US8636683, US8617159, US8597224, US8323229, US2016022463, US2015366681, US2015190259, US2014378884, US2014276466, US2014276336, US2014200502, US2014180188, US2014024991, US2014018719, US2013324906, US2013304231, US2013267886, US2013190675, US2013030350, US2012296365, US2011213469, US2011153030, US2011082535, US2010049224, JP2015523156, JP2014518655, EP3013280, EP3003461, EP2741808, EP2699199, EP2699199, DE102014015919, CN104582645, CN103987343, CN103987343, CN103987343, CN103142338, CN103142338,

Abstract:
Source: US2011000496A The present invention provides systems and methods for treating wounds in patients who lack the innate ability to regulate glucose (e.g., diabetic patients). In one aspect of the invention, a method includes positioning an internal bypass device within the duodenum to inhibit contact between chyme passing therethrough and an internal wall of the duodenum and maintaining the internal bypass device within the duodenum for a sufficient period of time to decrease insulin resistance and reduce a blood glucose level in the patient. The internal bypass device increases peripheral blood flow and elevates an immune system response to accelerate healing of the wound.

51) Family number: 33601629 (US2008004657A) © PatBase

Title: VOLUMETRIC GRAFTS FOR TREATMENT OF FISTULAE AND RELATED METHODS AND SYSTEMS

Priority:

AU20060242214	20060429	AU20120201042	20120222	CA20132606445	20131204
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US20100793030	20100603	WO2009US48168	20090622	WO2009US48152	20090622
US20120437169	20120402				

Family:

Publication number	Publication date	Application number	Application date
AU2006242214 AA	20061109	AU20060242214	20060429
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AU2012201042 AA	20120315	AU20120201042	20120222
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AU2013257459 AA	20131205	AU20130257459	20131114
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BRPI0914303 A2	20151013	BR2009PI14303	20090622
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WO06119256 A2	20061109	WO2006US16748	20060429
WO06119256 A3	20070628	WO2006US16748	20060429
WO09155600 A2	20091223	WO2009US48152	20090622
WO09155600 A3	20100930	WO2009US48152	20090622
WO09155607 A2	20091223	WO2009US48168	20090622
WO09155607 A3	20100910	WO2009US48168	20090622

Probable Assignee: COOK BIOTECH INC

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Assignee(s): COOK BIOTECH INC WEST LAFAYETTE ; COOK BIOTECH INC1425 INNOVATION PLACEWEST LAFAYETTEIN47906US ; COOK INC ; ERNST DAVID MJ ; DAVID M J ERNST DICKINSON

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Agent(s): PHILLIPS ORMONDE FITZPATRICK; SMART AND BIGGAR; KIRBY EADES GALE BAKER; MARKS AND CLERK LUXEMBOURG LLP; ATKINSON PETER BIRCH ET AL; ATKINSON PETER BIRCH; ONO SHINJIRO; KOBAYASHI YASUSHI; TOMITA HIROYUKI; CHIBA AKIO; SAKUMA SHIGERU; WOODARD EMHARDT MORIARTY MCNETT AND HENRY LLP; GANDY KENNETH A 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 YU ZA ZM ZW

International class (IPC 8–9): A61B17/00 A61B17/08 A61B17/12 A61B17/28 A61F17/00 A61F2/02 A61F2/04 A61K35/37 A61K38/00 A61K38/18 A61K9/00 A61K9/10 A61K9/14 A61L27/00 A61L27/36 A61L27/54 A61L27/56 A61L31/00 A61L31/12 A61L31/14 A61L31/16 C08J9/26 (Advanced/Invention); A61M27/00 (Advanced/Non–invention); A61B17/00 A61B17/03 A61B17/12 A61B17/28 A61F2/02 A61F2/04 A61K38/18 A61K9/00 A61K9/10 A61L27/00 A61L31/12 A61L31/14 C08J9/00 (Core/Invention)

CPC: A61L27/3633 A61L27/56 A61M27/00 A61B17/0057 A61B2017/00004 A61B2017/00641 A61B2017/00654

European class:

A61B17/00P A61L27/36B14 A61L27/56 K61B17/00A K61B17/00P11G K61B17/00P9 K61M27/00

US class: 1/1 128/887 128/887S 264/49 264/49S 424/484 424/484P 424/484S 424/489 424/550 514/1.1 514/1.100S 514/12 600/36 600/36S 606/111 606/111P 606/213 606/213P 623/23.67 623/23.670S 623/23.69 623/23.690S 623/23.71 623/23.710S 623/23.72 623/23.720P 623/23.720S

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GB2465533, GB2465533, GB2462575, GB2461461, GB2461461, GB2447400, GB2447400, EP2908871, EP2893905, EP2720625, EP2720625, EP2696909, EP2572645, EP2265185, EP2265185, CN104523369, CN103705289, CN103705289, CN103654880, CN103272277, CN103272276, CN103272276, CN102791202, CN102499733, AU2011260063, AU2009281937, AU2009259835, AU2009259828, AU2007286657,

Abstract:
Source: US2008004657A Described are devices, methods, and systems useful in the treatment of fistulae, and in certain embodiments those having openings extending into the alimentary canal, such as anorectal fistulae. Illustratively, an anorectal fistula can be treated by placing a volumetric construct within the primary opening of the fistula. In certain embodiments, the volumetric construct can include a rolled remodelable material processed to form a substantially unitary body. Advantageous such remodelable materials can include collagenous extracellular matrix materials, such as small intestine submucosa.

0) US2016030050A – EXPANDABLE BODY DEVICE AND METHOD OF USE

52) Family number: 57413958 (US2016030050A) © PatBase

Title: EXPANDABLE BODY DEVICE AND METHOD OF USE

Priority: US20130793737P 20130315 US20140777412 20140317 WO2014US30869 20140317

Family:

Publication number	Publication date	Application number	Application date
AR095586 AA	20151028	AR2014P101211	20140317
AU2014232323 AA	20140918	AU20140232323	20140317
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WO14146001 A3	20150108	WO2014US30869	20140317

Probable Assignee: METACTIVE MEDICAL INC

Assignee(s):(std)**:** LOREE HOWARD M II ; NOVITA THERAPEUTICS LLC ; STEPHENSON KATHERINE ; METACTIVE MEDICAL INC ; BRUNELL STEVEN ; FRANANO F NICHOLAS

Assignee(s): LOREE HOWARD M ; BRUNELL STEPHEN

Inventor(s):(std)**:** BRUNELL STEVEN ; F NICHOLAS FRANANO ; FRANANO F NICHOLAS ; HOWARD M LOREE II ; KATHERINE STEPHENSON ; LOREE HOWARD M II ; STEPHENSON KATHERINE ; STEVEN BRUNELL ; LOREE II HOWARD M ; BRUNELL STEPHEN

Inventor(s): LOREE HOWARD M

Agent(s): PIZZEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; GOWLING LAFLEUR HENDERSON LLP; WALLIS NAOMI RACHEL; SAMEJIMA MUTSUMI; DEAN ELTON F III

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

International class (IPC 8–9): A61B17/00 A61B17/12 A61F A61F2/02 A61F2/06 A61M25/04 A61M29/02 (Advanced/Invention); A61F A61M (Subclass/Invention)

CPC: A61B17/12031 A61B17/12172 A61B2017/00526 A61B2017/00893 A61B2017/00929 A61B17/12113 A61B17/12136 A61B17/1214 A61B17/12186 A61B2017/00853 A61B2017/00867 A61B2017/00876 A61B2017/1205 A61B2017/12063 A61B2090/3966 A61B2090/376

US class: 606/195

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Forward Citations:

WO17040371, US9636117, US9615831, US9572698, US9572697, US9510835, EP2861293,

Abstract:
Source: US2016030050A Disclosed herein are medical devices comprising a single−lobed, thin−walled, expandable body and a flexible, elongated delivery device for treating saccular vascular aneurysms and occluding segments of blood vessels and other biological conduits. The expandable bodies may include gold and other metals that can be compressed, positioned in the lumen of an aneurysm, or other biological conduit and expanded. The external surface of the expandable bodies can be configured to promote local thrombosis and to promote the growth of tissue into and around the surface in order to reduce migration of the expandable body and to occlude and seal the aneurysm or biological conduit. For the treatment of saccular aneurysms, the expandable body may be deployed in combination with one or more coiled wires that contact both the wall of the aneurysm and the expandable body and exert force on the expandable body to aid in sealing the aneurysm neck.

0) US2015327717A – MOVING INLET NOZZLES IN BEVERAGE SYSTEMS

53) Family number: 60160905 (US2015327717A) © PatBase

Title: MOVING INLET NOZZLES IN BEVERAGE SYSTEMS

Priority:

US20140060282P 20141006 US20140069772P 20141028 US20140940290P 20140214
US20150136258P 20150320 US20140977069P 20140408 US20150112627P 20150205
US20150810429 20150727 US20150230508P 20150605 US20150174443P 20150611
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Family:

Publication number	Publication date	Application number	Application date
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KR20170063939 A	20170608	KR20177012172	20151006
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US2015327718 AA	20151119	US20150810445	20150727
US2015327719 AA	20151119	US20150810448	20150727
US2016174755 AA	20160623	US20160056131	20160229
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US2016353919 AA	20161208	US20160174290	20160606
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WO16127126 A1	20160811	WO2016US16884	20160205
WO17023707 A1	20170209	WO2016US44576	20160728

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Assignee(s):(std)**:** BURROWS BRUCE ; BURROWS BRUCE D ; REMINGTON DESIGNS LLC

Assignee(s): MALETIS CHRIS ; MALETIS ED

Inventor(s):(std): BURROWS BRUCE D ; BURROWS BRUCE

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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

International class (IPC 8–9): A23F3/18 A23F5/26 A47J31/00 A47J31/02 A47J31/057 A47J31/06 A47J31/10 A47J31/22 A47J31/24 A47J31/34 A47J31/36 A47J31/40 A47J31/44 A47J31/46 A47J31/52 A47J31/54 A47J31/56 A47J31/60 B65D85/804 G05B11/42 (Advanced/Invention)

CPC: A47J31/057 A47J31/36 B65D85/8043 A23F3/18 A23F5/26 A47J31/56 A47J31/44 A47J31/22 A47J31/3633 A47J31/3676 A47J31/0673 A47J31/4403 A47J31/462 A47J31/407 A47J31/3628 A47J31/002 A47J31/3685 A47J31/4475 A47J31/46 A23F5/262 A47J31/52 A47J31/3695

US class: 1/1 426/115 426/425 426/431 426/433 99/280 99/283 99/287 99/295

Classification Explorer

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Forward Citations: WO17031212,

Abstract:
Source: US2015327717A The brewing system disclosed herein includes a moving inlet nozzle for use in intermixing hot water and coffee in a coffee cartridge. The inlet nozzle may include one or more flow ports that inject hot water into an inner chamber of the coffee cartridge at select angles, locations and pressures to create the desired fluidized mixture of hot water and beverage medium.

54) Family number: 30510156 (US2005096498A) © PatBase

Title: SIZING AND SHAPING DEVICE FOR TREATING CONGESTIVE HEART FAILURE

Priority:

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US20020127714 20020423 US20010300892P 20010625 US20010302255P 20010628
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Family:

Publication number	Publication date	Application number	Application date
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Inventor(s):(std)**:** HARE WILLIAM D ; HOUSER RUSSELL A ; SMITH WENDEL ; IBRAHIM TAMER ; HOUSER RUSSELL A RA ; HARE BILL ; GEYSTER STEVE ; DO PAUL L PL ; BOWER JOHN HUNTER JH ; BERTOLERO ARTHUR A ; ANNEST LON ; O REILLY ROB ; HUNTER BOWER JOHN ; CHIN SING FATT ROY ; BERTOLERO ARTHUR ; DO PAUL L ; CHIN SING FATT ; BOWER JOHN HUNTER

Inventor(s): HARE WILLIAM ; BOWER JOHN ; HOUSER RUSSELL ; DO PAUL

Agent(s): PIZZEYS PATENT AND TRADE MARK ATTORNEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; PRICE PAUL ANTHONY KING; UNIUS PATENT ATTORNEYS OFFICE; ROBERT E KREBS THELEN REID AND PRIEST LLP; ROBERT E KREBS, THELEN REID AND PRIEST LLP; KNOBBE MARTENS OLSON AND BEAR LLP; SILLS CUMMIS EPSTEIN AND GROSS PC; WILLIAM DOUGLAS HARE; WILSON SONSINI GOODRICH AND ROSATI; RUSSELL A HOUSER; TOWNSEND AND TOWNSEND AND CREW LLP; DARBY; O REGAN CECILY A; KIM ELAINE A 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 TH TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): A61B17/00 A61B17/03 A61B17/04 A61B17/06 A61B17/064 A61B17/08 A61B17/10 A61B17/11 A61B17/12 A61B17/32 A61B17/34 A61B18/04 A61B18/14 A61B19/00 A61B5/103 A61F2/84 A61M25/01 A61M29/04 A61M31/00 (Advanced/Invention);
A61B17/04 A61B17/064 A61B17/32 A61B17/3209 A61B18/00 A61B18/14 A61B19/00 A61B19/02 (Advanced/Non–invention);
A61B17/00 A61B17/03 A61B17/04 A61B17/32 A61B18/04 A61B18/14 A61B19/00 A61B5/103 A61M29/02 (Core/Invention);
A61B A61M (Subclass/Invention)

International class (IPC 1–7): A61B17/00 A61B17/03 A61B17/04 A61B19/00 A61F2/04 H03M1/12

CPC: A61B2017/00663 A61B17/00491 A61B18/14 A61B2017/00526 A61B2017/00637 A61B2017/00654 A61B2017/00862 A61B2017/00867 A61F2/0063 A61F2/06 A61F2/2481 A61F2002/2484 A61B2017/2925 A61B5/6869 A61B2017/00243 A61B17/08 A61B2017/00588 A61B2017/00592 A61B2017/00606 A61B2017/00628 A61B17/12109 A61B17/12172 A61B50/30 A61B90/06 A61B2090/063 A61B5/1075 A61B19/026 A61B2019/306 A61B2019/307 A61B2090/036 A61B2090/037 A61B17/0466 A61B17/0057 A61B17/0644 A61B17/32 A61B17/3209 A61B18/1482 A61B2017/00477 A61B2017/00615 A61B2017/00623 A61B2017/00659 A61B2017/00668 A61B2017/00672 A61B2017/0462 A61B2017/0641 A61B2018/00422 A61B2018/00601 A61B2018/00916 A61B2018/1412 A61B2018/1455 B33Y80/00

European class: A61B17/00P A61B19/46 A61B5/107H A61F2/00H A61F2/24W2 K61B17/00E1C K61B17/00K K61B17/00L K61B17/00M K61B17/00P11G K61B17/00P11J K61B17/00P11S K61B17/00P11T K61B17/00P20 K61B17/00P5K K61B17/00P5R K61B17/00P7 K61B17/00S10 K61B17/00S12 K61B17/04A40P2 K61B17/064A K61B17/064D K61B17/29H8 K61B17/32 K61B17/3209 K61B18/00F6C6 K61B18/00G4 K61B18/00N K61B18/00N1 K61B18/14 K61B18/14C4 K61B18/14F6A K61B18/14R K61B19/02P K61B19/30F4 K61B19/30H K61B19/46F K61F2/06 K61F2/24W2B

US class: 1/1 128/898 128/898S 33/512 600/37 600/37P 600/587 600/587P 606/1 606/142 606/142P 606/148 606/148P 606/151 606/151S 606/158 606/170 606/170P 606/172 606/172S 606/191 606/191S 606/194 606/194S 606/195 606/195P 606/1P 606/213 606/213P 606/213S 606/27 606/27S 606/41 606/41P 623/11.11 623/11.110S 623/23.64 623/23.640S

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Abstract:
Source: US2005096498A A kit and method are described for treating congestive heart failure. The kit may comprise multiple components including a shaping device, deployment tool, patch, and suture. The method may utilize one or more of these components.

0) US2007060878A – OCCLUSIVE GUIDEWIRE SYSTEM HAVING AN ERGONOMIC ...

55) Family number: 34297464 (US2007060878A) © PatBase

Title: OCCLUSIVE GUIDEWIRE SYSTEM HAVING AN ERGONOMIC HANDHELD CONTROL MECHANISM AND TORQUEABLE KINK–RESISTANT GUIDEWIRE

Priority: US20050217545 20050901 US20090368578 20090210 WO2006US32745 20060823

Family:

Publication number	Publication date	Application number	Application date
EP1922108 A2	20080521	EP20060802070	20060823
EP1922108 A4	20110504	EP20060802070	20060823
US2007060878 AA	20070315	US20050217545	20050901
US2009143729 AA	20090604	US20090368578	20090210
US8157766 BB	20120417	US20090368578	20090210
WO07030315 A2	20070315	WO2006US32745	20060823
WO07030315 A3	20090430	WO2006US32745	20060823

Probable Assignee: BOSTON SCIENTIFIC LTD

Assignee(s):(std)**:** MEDRAD INC ; POSSIS MEDICAL INC ; THOR ERIC J ; PRATHER RICHARD R ; BONNETTE MICHAEL J

Assignee(s): BOSTON SCIENTIFIC LTD ; BAYER MEDICAL CARE INC

Inventor(s):(std)**:** BONNETTE MICHAEL J ; PRATHER RICHARD R ; THOR ERIC J

Inventor(s): BONNETTE MICHAEL ; THOR ERIC ; PRATHER RICHARD

Agent(s): BROWNE ROBIN FORSYTHE ET AL; HUGH D JAEGER, HUGH D JAEGER; HUGH D JAEGER HUGH D JAEGER; GREGORY L BRADLEY,MEDRAD INC; GREGORY L BRADLEY MEDRAD INC; DAVID; JAMES R

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 TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): A61F2/958 A61M25/09 A61M25/10 A61M29/00 A61M31/00 (Advanced/Invention)

CPC: A61B17/12136 A61M25/10181 A61M25/0133 A61M25/0136 A61M25/09 A61M2025/09008 A61M25/1018

European class: A61M25/01C10 A61M25/01C10A A61M25/09 A61M25/10E K61M25/09A

US class: 600/585 604/103.09 604/103.090P 604/103.1 604/95.04 604/95.040P 604/96.01 606/192

Classification Explorer

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Forward Citations: WO15101333, USD679810, USD669170, US9629646, US9585686, US9545504, US9532785, US9357903, US9238119, US9192748, US9011351, US8647115, US8608703, US8585639, US8517984, US8157766, US8048025, US7615031, US2013072958, US2013046376, US2011208222, US2010004591, US2007060881, US2006064071, US2005182437,

Abstract:
Source: US2007060878A An occlusive guidewire system having an ergonomic handheld control mechanism and torqueable kink−resistant guidewire having a distally located inflatable balloon. The present invention provides convenient structure and overall mechanism for operation of a torqueable kink−resistant guidewire, including evacuation and inflation control of an occlusive balloon, and sealing and severing of a crimpable inflation tube which is in communication with an occlusive balloon. The torqueable kink−resistant guidewire includes a centrally located shaft which imparts robustness to the torqueable kink−resistant guidewire. An inflation lumen aligns within the torqueable kink−resistant guidewire for inflation of the balloon.

56) Family number: 30537629 (US4207192A) © PatBase

Title: HOLLOW FILAMENT SEPARATORY MODULE AND METHOD OF FABRICATION

Priority:

CA19790335910 19790919 CA19830432402 19830713 EP19790301885 19790913
IL19790058247 19790914 EP19790301885P 19790913 IL19830068847 19830601
IL19830068846 19830601 EP19810200530 19790913 EP19810200531 19790913
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US19790943738 19790919 US19790943793 19790919

Family:

Publication number	Publication date	Application number	Application date
AT5511 E	19831215	AT19790200530T	19790913
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Probable Assignee: ALBANY INT CORP

Assignee(s):(std)**:** ALBANY INT CORP

Assignee(s): ALBANY INTERNATL CORP ; BILEWSKI FRED ; BURCHESKY ROBERT D ; COPLAN MYRON J ; SEBRING ROBERT E ; SECRETARY OF INTERIOR US GOV AS ; SECRETARY OF INTERIOR US ; SECRETARY OF INTERIOR AS US GOV

Inventor(s):(std)**:** BEALE JOHN H ; BILEWSKI F ; BILEWSKI FRED ; BILEWSKI FRIEDHELM ; BURCHESKY R D ; BURCHESKY ROBERT D ; COPLAN M J ; COPLAN MYRON J ; DAVIS ROBERT B ; F BILEWSKI ; FRIEDHELM BILEWSKI ; FURETSUDO BIREUSUKII ; JOHN H BEALE ; M J COPLAN ; MAIRON JEI KOPURAN ; MAIRON JIEI KOPURAN ; MYRON J COPLAN ; R D BURCHESKY ; R E SEBRING ; ROBAATO DEII BAACHESUKII ; ROBAATO DEII BAACHIESUKII ; ROBAATO II ZEBURINGU ; ROBERT B DAVIS ; ROBERT D BURCHESKY ; ROBERT E SEBRING ; SEBRING R E ; SEBRING ROBERT E

Agent(s): SWABEY OGILVY RENAULT; REINHOLD COHN AND PARTNERS

Designated states: AT BE CH DE FR GB IT LU NL

International class (IPC 8–9)**:** B01D53/22 B01D63/02 B01D65/10 C02F1/44 (Advanced/Invention); B01D53/22 B01D63/02 B01D65/00 C02F1/44 (Core/Invention); B01D (Subclass/Invention)

International class (IPC 1–7)**:** B01D13/00 B01D13/01 B01D13/04 B01D31/00 B01D39/02 B01D53/22 B01D63/02 B32B1/08 B65H81/00 C02F1/44

CPC: B01D63/025 B01D2313/06 B01D2313/20 B01D63/021 B01D2313/23 B01D65/104 B01D53/22 B01D63/02 B01D63/024 B01D65/10 B01D65/102 Y10T156/1052

European class: B01D53/22 B01D63/02 B01D63/02D B01D65/10B B01D65/10D

US class: 156/166 156/169 156/250 156/296 156/73.6 210/321.0R 210/321.5 210/321.87 210/321.88 210/321R 210/323.2 210/433.2 210/488 210/496 210/497.1 264/138 264/261 264/71 55/158 96/8

Classification Explorer

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Forward Citations: WO8904207, WO8801903, WO16198450, WO14004645, WO12170956, WO12170933, WO12050870, WO12050870, WO0132299, WO0103813, WO0035567, US9630147, US9623369, US9566772, US9533261, US9321014, US9227362, US9221020, US9199191, US9022229, US8999454, US8747980, US8690994, US8545754, US8449706, US8449659, US8414693, US7611627, US7531091, US7172696, US6898910, US6846414, US6824679, US6758970, US6503451, US6309550, US6290756, US6270714, US6228261, US5972228, US5897729, US5837033, US5702601, US5583248, US5554283, US5543002, US5531848, US5299749, US5284584, US5282966, US5240677, US5234663, US5174900, US5164081, US5158581, US5124127, US5100556, US5084073, US5013331, US5000855, US4995163, US4902416, US4881955, US4880440, US4872979, US4865736, US4846977, US4822382, US4808201, US4767422, US4720342, US4705543, US4689191, US4676808, US4666469, US4632756, US4612019, US4610789,

US4400275, US2015136687, US2014047982, US2013168007, US2013092319, US2011146891, US2011126707, US2011000842, US2010224545, US2009301970, US2009277826, US2009062407, US2007246422, US2007193942, US2004154247, NL1013465, JP5075772, JP4631608, JP2111417, JP2010064041, JP2007061671, GB2230315, GB2230315, GB2219522, GB2219522, GB2135902, EP2832385, EP1140328, EP1108462, EP1108462, EP0970738, EP0970738, EP0442445, EP0359175, EP0226431, EP0177510, EP0098823, DE3127282, DE3032417, DE102006020662, CN104707448, CN103153427,

Abstract:
Source: US4207192A A hollow filament separatory module utilizing an annulus of semi−permeable hollow filaments with open ends encased in a potting compound and a collection chamber communicating with said open ends adjacent the potting compound with access surface means formed in the potting compound wherein the open ends appear, the sum of the area of said access surface means when projected upon a plane perpendicular to the direction of internal pressure forces against the potting compound being less than 50 percent of the cross−section of the non access portions of said compound parallel to said plane.

57) Family number: 29759890 (US2003092667A) © PatBase

Title: Delivery of therapeutic compositions using ultrasound

Priority:

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US19960611105	19960305	JP19970255814	19970919	US19970972846	19971118
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WO1999US15463	19990708	WO1999US14757	19990629	WO2000US21302	20000804
WO1998US19797	19980921				

Family:

Publication number	Publication date	Application number	Application date
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WO9913943 A1	19990325	WO1998US19797	19980921	

Probable Assignee: EKOS CORP

Assignee(s):(std)**:** EKOS CORP ; EKOS LLC ; LICHTTENEGGER GARY ; RODRIGUEY JAMES E ; TACHIBANA KATSURO ; ANDERSON JAMES R ; BENNETT FREDERICK J ; TACHIBANA TOSHIRO ; ZHANG JOHN ; TACHIBANA SHUNRO ; ZANG JOHN

Assignee(s): EKOS CORP BOTHELL ; EKOS A DELAWARE CORP ; HERCULES TECHNOLOGY II LP ; EKOS L L C

Inventor(s):(std)**:** SHUNRO TACHIBANA ; TACHIBANA SHUNRO ; TACHIBANA TOSHIRO ; ZHANG JOHN ; ZANG JOHN ; TACHIBANA KATSURO ; TACHIBANA KASTRO ; SHANG JOHN ; RODRIGUEY JAMES E ; LICHTTENEGGER GARY ; HANSMANN DOUGLAS R ; BENNETT FREDERICK J ; ANDERSON R ; GARY LICHTTENEGGER ; JAMES R ANDERSON ; KATSURO TACHIBANA ; RODRIGUEY E ; ANDERSON JAMES R ; ANDERSON JIM

Inventor(s): BENNETT FREDERICK ; RODRIGUEY JAMES

Agent(s): KNOBBE MARTENS OLSON AND BEAR LLP

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GE GH GM GN GR GW HR HU ID IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW

International class (IPC 8–9): A61B17/00 A61B17/20 A61B17/22 A61B17/32 A61B18/00 A61B8/00 A61K41/00 A61K49/00 A61K9/00 A61K9/127 A61K9/48 A61M25/00 A61M31/00 A61M37/00 A61M5/14 A61N1/00 A61N5/06 A61N7/00 B06B1/06 G10K11/00 G10K11/02 G10K11/162 H04R1/02 (Advanced/Invention); A61B17/00 A61B17/22 A61B17/32 A61B18/00 A61M37/00 A61N5/06 B06B1/02 (Advanced/Non–invention); A61B17/00 A61B17/22 A61B18/00 A61K41/00 A61K49/00 A61K9/127 A61M25/00 A61M31/00 A61M37/00 A61N1/00 A61N5/06 A61N7/00 B06B1/06 G10K11/00 H04R1/02 (Core/Invention); A61B17/00 A61B17/22 A61M37/00 B06B1/02 (Core/Non–invention)

International class (IPC 1–7): A61B17/00 A61B17/20 A61B17/22 A61B17/36 A61B18/00 A61B19/00 A61B8/00 A61B8/14 A61H1/00 A61K41/00 A61K48/00 A61K49/00 A61K9/00 A61K9/127 A61K9/48

A61M25/00 A61M31/00 A61M37/00 A61N1/30 A61N5/06 A61N7/00 C12N15/87 G10K11/02 H04R1/02

CPC: A61B2017/00853 A61B2017/22002 A61N7/00 A61B17/22012 A61B2017/00526 A61B2017/22021 A61B2017/22042 A61B2017/22062 A61B2017/22088 A61K41/0047 A61M25/0009 A61M2205/058 B06B1/0674 B06B1/0677 B06B2201/76 G10K11/004 G10K11/02 G10K11/162 A61M5/14 A61B1/00135 A61B8/12 A61B17/22 A61B17/2202 A61B2017/22082 A61B2017/22084 A61B2018/00011 A61M25/007 A61M37/0092 A61M2025/0057 A61M2025/105 A61B2017/320084 A61B17/320068 A61B2017/320072

European class: A61B1/00H4 A61B17/22 A61B17/22B2 A61B17/22B2D A61B8/12 A61K41/00T A61M25/00G A61M25/00T10C A61M25/00T3 A61M37/00U A61N7/00 B06B1/06E6D B06B1/06E6E G10K11/00G G10K11/02 G10K11/162 K61B17/00M K61B17/00S6 K61B17/22A2 K61B17/22B2D K61B17/22B2D2 K61B17/22G3 K61B17/22H6 K61B17/22S K61B17/22S2 K61B17/22S7 K61B17/32U4 K61B18/00A2 K61M205/05S K61M25/00S5 K61M25/00T10C K61M25/10Z3 K61M37/00U L06B201/76

US class: 156/60 156/60S 424/9.52 424/9.520P 424/9.520S 435/459 435/459S 514/44 514/44.00AP 514/44.00RP 514/44A 514/44R 600/437 600/437P 600/439 600/439P 600/439S 600/446 600/459 600/462 600/462P 600/467 600/469 600/471 600/472 601/2 601/2.2 601/2P 601/2S 601/3 601/4 604/101.03 604/102.03 604/103.01 604/107 604/108 604/17 604/2 604/20 604/20S 604/22 604/22.2 604/22P 604/22S 604/5 604/500 604/500P 604/500S 604/507 604/508 604/509 604/522 604/523 604/93.01 604/93.010S 606/169

Classification Explorer

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Abstract:
Source: US2003092667A Therapeutic compositions are delivered to a target site using a catheter which includes at least one ultrasound transducer coupled to an energy source. The therapeutic compositions include genetic material and the target site may be a DNA with affinity for the genetic material.

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Designated states: AT AU BE CA CH DE DK ES FR GB GR IE IT JP KR LI LU MC NL PT SE US

International class (IPC 8–9): A61B1/00 A61B1/32 A61B10/00 A61B10/06 A61B17/00 A61B17/02 A61B17/12 A61B17/22 A61B17/28 A61B17/32 A61B17/34 A61B17/42 A61B18/14 A61B19/00 A61F13/00 A61F13/15 A61F13/20 A61F13/36 A61F13/38 A61F2/00 A61F2/958 A61M1/00 A61M25/092 A61M25/10 A61M29/00 A61M29/02 A61M5/00 (Advanced/Invention); A61B1/00 A61B1/32 A61B10/00 A61B17/00 A61B17/12 A61B17/22 A61B17/28 A61B17/32 A61B17/34 A61B17/42 A61B18/14 A61B19/00 A61F13/00 A61F2/00 A61M1/00 A61M25/092 A61M29/00 (Advanced/Non–invention); A61B1/00 A61B1/32 A61B10/02 A61B17/00 A61B17/02 A61B17/32 A61F13/15 A61F13/36 A61M1/00 A61M29/00 A61M29/02 (Core/Invention); A61B17/00 A61B17/28 A61B17/32 A61B17/34 A61F13/00 A61M1/00 A61M29/00 (Core/Non–invention)

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Abstract:
Source: US2001025155A A multifunctional device for use in an endoscopically performed operative procedure of the type where a narrow portal is established through the skin to provide access to an operative site and the multifunctional device is introduced to the operative site through the narrow portal. The multifunctional device is formed of an absorbent material, preferably expandable, having a substantially rigid dry state prior to introduction to the operative site and a soft, flexible wet state after absorbing fluids. The absorbent material can be formed witha spine therein of either a continuous or a discontinuous, segmented construction, and the spine can be branched and tubular or solid. The absorbent material can have portions or segments thereof expandable to different sizes to produce rounded protuberances to facilitate manipulation at the operative site and can have predetermined, non−straight configurations in the wet state, the predetermined configurations being controlled by the spine in the absorbent material or the method of forming the absorbent material. The multifunctional device can have a passage therethrough to accommodate laser, electrosurgical, biopsy or culturing instruments.

0) US2002099289A – MEDICAL IMAGING DEVICE

59) Family number: 30128191 (US2002099289A) © PatBase

Title: MEDICAL IMAGING DEVICE

Priority:

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Probable Assignee: BOSTON SCIENTIFIC LTD

Assignee(s):(std)**:** BOSTON SCIENT CORP ; BOSTON SCIENT LTD ; BOSTON SCIENTIFIC CORP ; PRUTECH RESEARCH AND DEV PARTN ; PRUTECH RES AND DEV ; SCIMED LIFE SYSTEMS INC

Assignee(s): SPECIALIZED HEALTH PRODUCTS ; BOSTON SCIENTIFIC LTD BARBADOS ; BOSTON SCIENTIFIC SCIMED INC ; BOSTON SCIENTIFIC TECHNOLOGY INC ; PRUTECH RESEARCH AND DEVELOPMENT PARTNERSHIP II A ; CROWLEY ROBERT J ; BOSTON SCIENTIFIC LTD ST MICHAEL ; LENNOX CHARLES D ; ROPIAK SUSAN M ; ROBERTS TROY W ; HAMM MARK A ; PRUTECH RESEARCH AND DEVELOPMENT PARTNERSHIP II C ; PRUTECH RESEARCH AND DEVELOPMENT PARTNERSHIP II ; ABELE JOHN E ; BEAUDET STEPHEN P ; BOSTON SCIENTIFIC LTD

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Agent(s): CASSAN MACLEAN; SMART AND BIGGAR; ORRICK HERRINGTON AND SUTCLIFFE LLP

Designated states: AT AU BE CA CH DE DK ES FI FR GB GR IE IT JP LU MC NL PT SE US

International class (IPC 8–9)**:** A61B17/00 A61B17/22 A61B17/32 A61B18/00 A61B18/04 A61B18/12 A61B18/14 A61B19/00 A61B8/12 A61M25/00 B06B1/06 (Advanced/Invention); A61B10/00 A61B10/02 A61B17/00 A61B17/22 A61B17/34 A61B18/00 A61B18/14 A61B19/00 A61B5/0456 A61M29/02 (Advanced/Non–invention); A61B17/22 A61B17/32 A61B18/00 A61B18/04 A61B18/12 A61B18/14 A61B8/12 A61M25/00 B06B1/06 (Core/Invention);

A61B10/00 A61B10/02 A61B17/00 A61B17/22 A61B17/34 A61B18/00 A61B18/14 A61B19/00 A61B5/0452 A61M29/02 (Core/Non–invention)

International class (IPC 1–7): A61B17/22 A61B17/32 A61B17/36 A61B17/39 A61B18/00 A61B18/04 A61B18/12 A61B5/04 A61B5/042 A61B5/05 A61B8/00 A61B8/12 A61B8/14 A61F7/00 A61M25/00 A61M25/01 A61N1/05 A61N1/06 A65B8/12 B06B1/06

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US class: 128/602.06 128/660.03 128/662.06 128/772 600/109 600/374 600/407 600/407P 600/439 600/439P 600/440 600/462 600/463 600/466 600/467 600/470 600/471 600/471S 600/585 600/7 601/2 604/96 604/96.01 604/98 606/167 606/27 606/41 607/122 607/99

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Abstract:
Source: US2002099289A A medical device for creating images of tissue within a body includes a disposable liquid−confining sheath supporting an elongate flexible drive shaft which carries an imaging device such as a ultrasound transducer. The device may include a trocar adapted to receive the sheath, the trocar permitting the device to be inserted into the body where no natural passageway exists, the trocar having a side−facing region adapted to maintain registry with the imaging device while the imaging device rotates. In another embodiment, the drive shaft includes an outer coil that is configured such that when the drive shaft is driven in the direction tending to decrease the diameter of the outer coil, the outer surface of the outer coil pressurizes liquid distally of the outer surface. The device optionally includes an inflatable balloon.

60) Family number: 45170480 (US2010139465A) © PatBase

Title: MICRO–CUTTING MACHINE FOR FORMING CUTS IN PRODUCTS

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CN200980149278 20091208 EP20090836735 20091208 JP20120503760 20100402
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AU2009333459 AA	20100708	AU20090333459	20091208
AU2009333459 BB	20140612	AU20090333459	20091208
AU2010232448 AA	20101007	AU20100232448	20100402
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CA2757655 AA	20101007	CA20102757655	20100402
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CN105459189 A	20160406	CN201510524880	20091208
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EP3020443 A1	20160518	EP20150197042	20091208
HK1162400 A1	20170310	HK20120102779	20120320
JP2012512750 T2	20120607	JP20110539800T	20091208
JP2012522607 T2	20120927	JP20120503760T	20100402
JP2015027564 A2	20150212	JP20140207627	20141008
JP2015171758 A2	20151001	JP20150100442	20150515
JP5751709 B2	20150722	JP20110539800T	20091208
JP6138193 B2	20170512	JP20150100442	20150515
US2010139465 AA	20100610	US20090633727	20091208
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US2010256605 AA	20101007	US20100753831	20100402
US2010256606 AA	20101007	US20100753842	20100402
US2013255456 AA	20131003	US20130901375	20130523
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US9067332 BB	20150630	US20100753831	20100402

US9067333 BB	20150630	US20100753842	20100402	
US9072873 BB	20150707	US20100753849	20100402	
US9616195 BB	20170411	US20100753855	20100402	
US9662798 BB	20170530	US20130901375	20130523	
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WO10077692 A3	20110224	WO2009US67217	20091208	
WO10115163 A1	20101007	WO2010US29867	20100402	
WO10115163 A9	20110728	WO2010US29867	20100402	

Probable Assignee: SCIENTIA VASCULAR LLC

Assignee(s):(std)**:** BOEHMKE SCOTT ; BOEHMKE SCOTT K ; CHRISTIAN JEFF ; CHRISTIAN RYAN ; NEXT VASCULAR LLC ; LIPPERT JOHN ; GASBARRO JAMES A ; GASBARRO JAMES ; JOHN LIPPERT ; JEFF CHRISTIAN ; RYAN CHRISTIAN ; SCIENTIA VASCULAR LLC ; SNYDER EDWARD J

Assignee(s): SCIENTIA VASCULAR LLC104 – 705 TRADEMARK DRIVERENONV89521–8978US ; SCIENTIA VASCULAR LLC WEST VALLEY CITY

Inventor(s):(std)**:** BOEHMKE SCOTT K ; CHRISTIAN JEFF ; CHRISTIAN RYAN ; EDWARD J SNYDER ; GASBARRO JAMES A ; JAMES A GASBARRO ; JOHN LIPPERT ; LIPPERT JOHN ; SCOTT K BOEHMKE ; SNYDER EDWARD J ; RYAN CHRISTIAN ; GASBARRO JAMES A A ; JEFF CHRISTIAN ; BOEHMKE SCOTT K K ; BOEHMKE SCOTT A

Inventor(s): GASBARRO JAMES AUS ; CHRISTIAN RYANUS ; CHRISTIAN JEFFUS ; BOEHMKE SCOTT KUS ; LIPPERT JOHNUS

Agent(s): SPRUSON AND FERGUSON; MBM INTELLECTUAL PROPERTY LAW LLP; MUELLER BORE AND PARTNER PATENTANWAELTE PARTG MBB; SMALL GARY JAMES; CARPMAELS AND RANSFORD LLP; SILVERSKY GROUP LLC; WORKMAN NYDEGGER; CASEY TIMOTHY D

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 TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): A61M25/00 A61M25/01 A61M25/09 A61M25/098 A61M25/14 B23C3/00 B23C3/34 B26D1/24 B26D3/06 B26D3/14 B26D5/00 B26D5/02 B26D5/20 B26D5/34 B26D7/06 B26D7/26 B26D7/27 B26D7/32 B26F1/00 (Advanced/Invention);
A61M25/00 B26D5/20 B26F1/00 (Advanced/Non–invention);
B26D5/20 B26D7/00 B26D7/06 (Core/Invention);
A61M B26D B26F (Subclass/Invention)

CPC: A61M25/0054 A61M25/0138 A61M2025/0046 A61M2025/0047 A61M2025/09075 A61M2025/0191 B26D7/06 B26D5/007 A61M25/0097 A61M2025/0081 A61M2025/09091 A61M25/0009 A61M25/0045 A61M25/0013 A61M25/0051 A61M25/0053 A61M2025/0042 A61M2025/09133 B26D5/20 A61M25/0015 A61M25/09 A61M2025/09108 B26D1/24 B26D5/34 B26D7/0683 B26F1/0053 B26F1/0061 Y10T83/0448 Y10T83/051 Y10T83/145 Y10T83/173 Y10T83/4458 Y10T83/4463 Y10T83/828 Y10T83/8878

European class: A61M25/00G A61M25/00G4 A61M25/00G6 A61M25/00S1 A61M25/00S2A A61M25/00V A61M25/09 B26D5/20 B26D5/34 B26F1/00C10 B26F1/00C8 K61M25/00G4 K61M25/00R3 K61M25/00S1 K61M25/00S1C K61M25/00S1C1 K61M25/00S2C K61M25/00S3 K61M25/00T30S K61M25/01C10C K61M25/01S K61M25/09E2 K61M25/09E3A K61M25/09G K61M25/09M L26D5/20 L26D7/06L L26F1/00C10 L26F1/00C8

US class: 1/1 600/585 600/585P 604/523 604/523P 604/523S 604/524 604/524P 604/524S 604/528 604/528S 604/529 604/529P 83/209 83/209S 83/211 83/211S 83/23 83/23P 83/36 83/520 83/520S 83/73 83/73S 83/76.6 83/821 83/821S

Classification Explorer

Cited documents: WO10115163 A1, WO10077692 A2, WO09020962 A1, WO09020961 A1, WO08076931 A2, WO06113863 A2, WO04011076 A2, USRE39018 E, US8915865 BB, US8468919 BB, US8167821 BB, US8048004 BB, US8043314 BB, US7989042 BB, US7883474 BA, US7766896 BB, US7621880 BB, US7494474 BB, US7421929 BB, US7110910 BA, US7024885 BB, US6911715 BB, US6766720 BA, US6671560 BB, US6652508 BB, US6652505 BA, US6610046 BA, US6606985 BB, US6558355 BA, US6554820 BA, US6553880 BB, US655355 A, US6527746 BA, US6492615 BA, US6464651 BA,

US6440088 BA, US6436056 BA, US6431039 BA, US6428489 BA, US6402706 BB, US6356791 BA, US6346091 BA, US6302870 BA, US6261246 BA, US6260458 BA, US6228073 BA, US6214042 BA, US6183410 BA, US6179828 BA, US6179828 B1, US6139511 A, US6132389 A, US6063101 A, US6033394 A, US6033288 A, US6027863 A, US6022369 A, US6022343 A, US6017319 A, US6014919 A, US6004279 A, US5931830 A, US5916194 A, US5911717 A, US5911715 A, US5860963 A, US5833632 A, US5800454 A, US5746701 A, US5741429 A, US5690120 A, US5685868 A, US5676659 A, US5673707 A, US5659205 A, US5573867 A, US5573520 A, US5507751 A, US5506682 A, US5437288 A, US5385152 A, US5372587 A, US5315996 A, US5154725 A, US5095915 A, US5084022 A, US5047045 A, US4989608 A, US4895168 A, US4846186 A, US4719924 A, US4688540 A, US4416312 A, US4239069 A, US4163406 A, US3920058 A, US3709271 A, US3612058 A, US3572334 A, US2187299 A, US2022065 A, US2013255456 AA, US2012209073 AA, US2010256606 AA, US2010256605 AA, US2010256604 AA, US2010256603 AA, US2010256602 AA, US2010256601 AA, US2010256601, US2010256528 AA, US2010256528, US2010256527 AA, US2010139465 AA, US2010139465, US2010063479 AA, US2009177119 AA, US2009043283 AA, US2008269641 AA, US2008200839 AA, US2008188928 AA, US2008147170 AA, US2008125674 AA, US2008122226 AA, US2008097248 AA, US2008097247 AA, US2008077049 AA, US2008064989 AA, US2008021404 AA, US2008021401 AA, US2008021347 AA, US2007287955 AA, US2007250036 AA, US2007167876 AA, US2007135763 AA, US2007112331 AA, US2007100285 AA, US2007010786 AA, US2006121218 AA, US2006112802 AA, US2006089618 AA, US2005124976 AA, US2005054953 AA, US2004193140 AA, US2004181174 AB, US2004167440 AA, US2004102719 AA, US2004087933 AA, US2004054349 AA, US2003093059 AA, US2003023190 AA, US2002078808 AA, US2002019599 AA, US2001009980 AA, JP8308934 A2, JP7008560 A2, JP59102509 A2, JP59102509, JP2010535588 T2, JP2008536639 T2, JP2008536639, JP2007313638 A2, JP2007313638, JP2005533594 T2, JP2005533594, JP2005533594, JP2004535233 T2, JP2004329552 A2, JP2004329552, JP2003011117 A2, JP2003011117, JP2002543896 T2, JP2002543896, JP2002543896, JP2000513235 T2, JP2000343313 A2, JP2000116787 A2, JP11294497 A2, JP10137338 A2, EP1940498 A1, CN1781684 A, CN1518428 A, CN1324285 A, CN1230914 A,

Forward Citations: WO14197124, WO14150200, WO14138580, WO14138580, USD675318, USD655412, USD653337, USD653335, US9662798, US9629998, US9616195, US9480814, US9463317, US9452284, US9405078, US9405075, US9375333, US9339628, US9302101, US9272136, US9272119, US9259572, US9220893, US9216286, US9205253, US9186499, US9072873, US9067333, US9067332, US9052466, US8998947, US8974512, US8968383, US8936401, US8574219, US8468919, US8250960, US8006594, US2016126707, US2014277005, US2014142551, US2013289498, US2012130461, US2011308367, US2010256606, US2010256605, US2010256604, US2010256603, US2010256602, US2010256601, US2010256528, US2010256527, US2010139465, US2008097395, JP6138193, JP2015171758, JP2013172692, EP2859861,

Abstract:
Source: US2010139465A Micro−cutting machines for forming cuts in catheters, guidewires, and similar products, are disclosed, including a micro−cutting machine that can directly control the dimensions of the resultant beams being cut into products, and that can capture images of each cut for feedback control and accuracy verification.

0) CA2488588A – GUIDEWIRE FOR CROSSING OCCLUSIONS OR STENOSIS ...

61) Family number: 33066521 (CA2488588A) © PatBase

Title: GUIDEWIRE FOR CROSSING OCCLUSIONS OR STENOSIS

Priority: CA20042488588 20041130

Family:

Publication number	Publication date	Application number	Application date
CA2488588 AA	20060530	CA20042488588	20041130
CA2488588 C	20140805	CA20042488588	20041130

Probable Assignee: NORBORN MEDICAL INC

Assignee(s):(std): NORBORN MEDICAL INC

Assignee(s): NORBORN MEDICAL INC47 CHESLEY AVENUEMOUNTAIN VIEWCA94040US ; NORIEGA GERARDO V ; REVASCULAR THERAPEUTICS INC ; REVASCULAR THERAPEUTICS INC762 PALOMAR AVENUESUNNYVALECA94085US ; SUDARIA RUDOLFO ; CHECHELSKI VICTOR

Inventor(s):(std): CHECHELSKI VICTOR ; NORIEGA GERARDO V ; SUDARIA RUDOLFO

Inventor(s): SUDARIA RUDOLFOUS ; NORIEGA GERARDO VUS ; CHECHELSKI VICTORUS

International class (IPC 8–9): A61B17/22 A61B17/3207 A61M1/00 A61M25/09 (Advanced/Invention)

CPC: A61B17/3207 A61B17/320758 A61B2017/22044 A61B2017/320004 A61B2017/320012 A61M25/09025 A61M2025/09183

European class: A61B17/3207 A61B17/3207R A61M25/09B1 K61B17/22G3P K61B17/32A K61B17/32A4 K61M25/09T1

Classification Explorer

Abstract:
Source: CA2488588A Systems and methods for crossing stenosis, partial occlusions, or complete occlusions within a body lumen. The systems generally include an elongate member such as a hollow guidewire that houses a rotatable and translatable drive shaft. The drive shaft typically has a distal portion that is advanced to create a path in the occlusive material that is large enough to allow the hollow guidewire to cross the occlusive material.

62) Family number: 32237831 (US2007219484A) © PatBase

Title: CATHETER FOR ASPIRATING, FRAGMENTING AND REMOVING MATERIAL

Priority:

CH20040000021 20041222	CH20040000369 20040304	CH20040002176 20041222
EP20050708654 20050303	CH20040036904 20040304	US20050591100 20050303
JP20070501377 20050303	JP20110083350 20050303	EP20080168025 20050303
WO2005IB00543 20050303	US20060591100 20061025	US20110030165 20110218

Family:

Publication number	Publication date	Application number	Application date
AT431724 E	20090615	AT20050708654T	20050303
AT530128 E	20111115	AT20050168025T	20050303
AU2005220069 AA	20050915	AU20050220069	20050303
AU2005220069 BB	20110421	AU20050220069	20050303
AU2005220069 BI	20110512	AU20050220069	20050303
BRPI0508305 A	20070731	BR2005PI08305	20050303
CA2555966 AA	20060811	CA20052555966	20050303
CA2555966 C	20120710	CA20052555966	20050303
CN100577116 C	20100106	CN200580006942	20050303
CN101123918 A	20080213	CN200580006942	20050303
DE502005007316 D1	20090702	DE200550007316T	20050303
DE502005012079 D1	20120105	DE200550012079T	20050303
EP1722694 A2	20061122	EP20050708654	20050303
EP1722694 B1	20090520	EP20050708654	20050303
EP2014244 A1	20090114	EP20080168025	20050303
EP2014244 B1	20111026	EP20080168025	20050303
ES2327652 T3	20091102	ES20050708654T	20050303
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NO337278 B1	20160229	NO20060003918	20060901
RU2006134975 A	20080410	RU20060134975	20050303
RU2369345 C2	20091010	RU20060134975	20050303
TW200539837 A	20051216	TW20050106510	20050304
US2007219484 AA	20070920	US20050591100	20050303
US2011160758 AA	20110630	US20110030165	20110218
US7905896 BB	20110315	US20050591100	20050303
US8114106 BB	20120214	US20110030165	20110218
WO05084562 A2	20050915	WO2005IB00543	20050303
WO05084562 A3	20070816	WO2005IB00543	20050303
ZA200606629 A	20080326	ZA20060006629	20060810

ZA200606629 A	20071227	ZA20060006629	20060810

Probable Assignee: STRAUB MEDICAL AG

Assignee(s):(std)**:** SHTRAUB MEDIKAL AG ; STRAUB IMMANUEL ; STRAUB MEDICAL ; STRAUB MEDICAL AG

Inventor(s):(std)**:** IMMANUEL STRAUB ; SHTRAUB IMANUEHL ; STRAUB IMMANUEL

Inventor(s): STRAUB IMMANUEL 7323 ; SHTRAUB IMANUEHL'

Agent(s): SHELSTON IP PTY LTD; SHELSTON IP; HILL AND SCHUMACHER; PATENTBUERO PAUL ROSENICH AG; ROSENICH PAUL; REINHOLD COHN AND PARTNERS; YOSHIDA KENJI; ISHIDA JUN; KAPLAN GILMAN GIBSON AND DERNIER LLP; GIBSON AND DERNIER LLP; MATTHEW B

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 SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): A61B17/00 A61B17/22 A61B17/32 A61B17/3207 A61M1/00 (Advanced/Invention); A61B17/00 (Advanced/Non–invention); A61B17/00 A61B17/22 A61B17/32 A61M1/00 (Core/Invention); A61B17/00 (Core/Non–invention); A61B (Subclass/Invention)

International class (IPC 1–7): A61B17/22 A61B17/32

CPC: A61B2017/00685 A61B17/320783

European class: A61B17/3207S K61B17/00Q2

US class: 604/35 604/35P 606/159 606/159P 606/170 606/180

Classification Explorer

Cited documents: WOIB00543, WO9629941 A1, WO9424941 A1, WO9101114 A1, WO10061308 A1, WO05084562 A3, WO05084562 A2, WO0249690 A3, WO0249690 A2, WO0054659 A1, WO0047116 A1, US6565588 BA, US6217565 BA, US5873882 A, US5833704 A, US5571122 A, US5569178 A, US5417703 A, US5312425 A, US5226909 A, US5100426 A, US5084052 A, US5078723 A, US4935025 A, US4867157 A, US4857046 A, US4844064 A, US4705511 A, US3945375 A, US3732858 A, US3082805 A, US2026630 A, US2003114875 AA, US2002010487 AA, JP8038498 A2, JP6081540 U1, JP5078207 U1, JP5078207 U, JP5015914 U1, JP2005512631 T2, JP2002538876 T2, JP2000342595 A2, JP11506358 T2, JP1126957 A2, JP10277047 A2, EP0739603 B1, EP0739603 A1, EP0680730 A3, EP0680730 A2, EP0669106 B1, EP0669106 A2, EP0669106 A1, EP0582533 A1, EP0448859 A3, EP0448859 A2, EP0310285 A2, EP0267539 B1, EP0267539 A1, DE10162933 A1,

Forward Citations: WO17045182, WO14089162, WO11024124, WO10061308, US9668767, US9642646, US9629684, US9592075, US9572492, US9557156, US9526865, US9526864, US9498600, US9498247, US9492193, US9492192, US9433437, US9345511, US9333007, US9314263, US9308016, US9282992, US9198679, US9095371, US9028512, US9023070, US8920448, US8900257, US8888801, US8795306, US8764779, US8663259, US8647355, US8628549, US8568432, US8517994, US8361094, US8337516, US8236016, US8114106, US8070762, US8007506, US7981128, US7905896, US2014277039, US2013138128, US2013103067, US2011021976, RU2545448, RU2520801, JP2012509733, CN104415452, CN104203128, CN103622729, CN103622729, CN103327911, CN102946815, CN102579089, CN102579089, CN102481158, CN102389328, CN102319097, CN102316809, CH701695,

Abstract:
Source: US2007219484A Catheter for aspiration, fragmentation and removal of removable material from hollow bodies, in particular of thrombi and emboli from human blood vessels, comprising a working head, a flexible transport screw, a flexible tube, and a cutting tool. The working head is independently displaceable along a guide wire, is arranged at the distal end of the catheter, and has at least one lateral opening. The flexible transport screw can be rotated at a distance by means of a rotary drive of a drive unit. The flexible tube surrounds the transport screw, is connected to the working head, and is intended for removing the detached thrombi and emboli fragments. The transport screw forms a shearing cutting tool in cooperation with the lateral opening of the working head, in order to comminute the detached thrombi and emboli between peripheral borders of the transport screw and borders of the lateral opening.

0) US5330426A – MIXING AND DELIVERY SYRINGE ASSEMBLY

63) Family number: 12072911 (US5330426A) © PatBase

Title: Mixing and delivery syringe assembly

Priority: BR1994PI08568 19940418 US19920930749 19920813 US19980149386 19980908 US19960625269 19960327 US19940271378 19940706 WO1994US04292 19940418 WO1995US08441 19950630 WO1997US05402 19970326

Family:

Publication number	Publication date	Application number	Application date
AU199467706 A1	19951110	AU19940067706	19940418
AU199529612 A1	19960125	AU19950029612	19950630
AU199724329 A1	19971017	AU19970024329	19970326
AU682867 B2	19971023	AU19940067706	19940418
BRPI9408568 A	19970826	BR1994PI08568	19940418
CA2188144 AA	19961017	CA19942188144	19940418
EP0756506 A1	19970205	EP19940915828	19940418
EP0756506 A4	19980506	EP19940915828	19940418
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EP1011784 A4	20000628	EP19970920036	19970326
JP10502829 T2	19980317	JP19950526933T	19940418
KR19970702086 A	19970513	KR19960705851	19961018
RU2137509 C1	19990920	RU19960122168	19940418
RU96122168 A	19990120	RU19960122168	19961118
US5330426 A	19940719	US19920930749	19920813
US5531683 A	19960702	US19940271378	19940706
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US6027472 A	20000222	US19980149386	19980908
WO9528201 A1	19951026	WO1994US04292	19940418
WO9601135 A1	19960118	WO1995US08441	19950630
WO9735632 A1	19971002	WO1997US05402	19970326

Probable Assignee: PESCADERO BEACH HOLDINGS CORP

Assignee(s):(std)**:** KRIESEL MARSHALL S ; SCIENCE INC ; THOMPSON THOMAS N ; SAJENS INKORPOREJTED

Assignee(s): PESCADERO BEACH HOLDINGS CORP ; SIT INVESTMENT ASSOCIATES INC BY EUGENE C SIT CHAI ; SCIENCE INC A DELAWARE CORP ; BEDNARCZYK W WILLIAM ; BRATTAIN DONALD ; DAVID E KELBY AND VIRGINIA H KELBY JOINT TENANT AS ; DAVID E KELBY AND VIRGINIA H KELBY JOINT TENANTS A ; GROSSMAN INVESTMENTS D B A N BUD GROSSMAN MANAGING ; WALLIN R WALLIN D B A WALLIN FAMILY FOUNDATION ; WILLIAM F FARLEY D B A LIVINGSTON CAPITAL ; SIT INVESTMENT ASSOCIATES INC ; OKABENA PARTNERSHIP V 8 BY OKABENA INVESTMENT SERV ; HODDER WILLIAM A

Inventor(s):(std)**:** KRIESEL MARSHALL S ; KRISEL MARSHALL S ; MARSHALL S KRISEL ; THOMPSON THOMAS N ; TOMAS N TOMPSON

Inventor(s): TOMAS N.TOMPSON ; MARSHALL S.KRISEL ; THOMAS N THOMPSON ; MARSHALL S KRIESEL

Agent(s): SCIENCE INC; GOUDREAU GAGE DUBUC

Designated states: AL AM AT AU AZ BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CZ DE DK EE ES FI FR GA GB GE GH GN GR HU IE IL IS IT JP KE KG KP KR KZ LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU

International class (IPC 8–9): A61J1/20 A61J3/00 A61M37/00 A61M39/00 A61M5/00 A61M5/145 A61M5/20 A61M5/24 A61M5/31 A61M5/34 A61M5/50 (Advanced/Invention); A61M37/00 A61M5/20 A61M5/31 A61M5/34 A61M5/50 (Advanced/Non–invention); A61J1/14 A61J3/00 A61M39/00 A61M5/00 A61M5/24 (Core/Invention)

International class (IPC 1–7): A61J1/20 A61M37/00 A61M39/00 A61M5/00 A61M5/24 A61M5/50

CPC: A61M5/20 A61M5/2429 A61M5/2448 A61M5/2459 A61M5/3145 A61M5/348 A61M5/5013 A61M5/502 A61M2005/2414 A61M2005/3104 A61M2005/3117 A61M2005/3121 A61M5/14526 A61M5/24 A61M5/2466 A61M2005/2407 A61M2005/247 A61M2205/273 A61M2205/276 A61M2209/045

European class: A61M5/145B2 A61M5/24 A61M5/24E2 A61M5/24M K61M205/27A K61M205/27B K61M209/04F K61M5/20 K61M5/24A2 K61M5/24A6 K61M5/24S2 K61M5/24S3 K61M5/24S3F K61M5/31A3C K61M5/31A6 K61M5/31A6C K61M5/31F K61M5/34F K61M5/50B K61M5/50B2

US class: 604/232 604/416 604/82 604/87 604/88 604/89

Classification Explorer

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Abstract:
Source: US5330426A A device for intermixing a first component, such as a parenteral fluid with a second component, such as an immobilized drug carried by a scaffold to form a beneficial agent which, following the mixing step, can be dispensed directly from the device for infusion into a patient. The device includes novel mechanisms for mateably interconnecting a container, such as a glass vial containing the first component with a housing having a fluid outlet which houses a sealed container containing the second component, and then for controllably mixing the components under sterile conditions to form an injectable solution which is automatically dispensed through the fluid outlet of the device.

64) Family number: 28292800 (US2002010462A) © PatBase

Title: METHOD OF DRUG DELIVERY TO INTERSTITIAL REGIONS OF THE MYOCARDIUM

Priority:

EP19990956682 19991022
US19990407461 19990928
US20020190429 20020705
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Family:

Publication number	Publication date	Application number	Application date
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AU200013231 A5	20000515	AU20000013231	19991022
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WO0126706 A2	20010419	WO2000US28301	20001013	
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Probable Assignee: BIOCARDIA INC

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Assignee(s): CROCKETT K DAVID ; BIOCARDIA DEVICECO INC

Inventor(s):(std)**:** ALTMAN JOHN ; ALTMAN JOHN D ; ALTMAN PETER A ; HAKIM BRIAN ; CROCKETT K D ; CROCKETT K DAVID ; STERTZER SIMON

Inventor(s): HAKEM BRIAN ; JOHN ALTMAN ; K DAVID CROCKETT ; PETER A ALTMAN ; SIMON STERTZER ; CROCKETT K ; ALTMAN PETER

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; SMART AND BIGGAR; PATENT DEPARTMENT LARKIN HOFFMAN DALY AND LINDGREN LTD; CROCKETT AND CROCKETT; LARKIN HOFFMAN DALY AND LINDGEN LTD; FREDERICK W; CROCKETT AND CROCKETT PC; K DAVID

Designated states: AT AU BE CA CH CY DE DK ES FI FR GB GR IE IT JP LI LU MC NL PT SE

International class (IPC 8–9): A61B17/00 A61B18/14 A61B18/18 A61K31/196 A61K31/4709 A61K31/519 A61K38/44 A61K47/44 A61K51/00 A61K9/127 A61K9/16 A61K9/50 A61K9/52 A61M25/00 A61M25/02 A61M31/00 A61M36/00 A61M39/00 A61M5/00 A61M5/178 A61N1/00 A61N1/05 A61N1/30 A61P9/00 A61P9/06 A61P9/08 (Advanced/Invention); A61B17/00 A61K47/44 A61K9/127 A61K9/52 A61M25/00 A61M25/02 A61M39/00 A61P9/00 (Advanced/Non–invention)

International class (IPC 1–7): A61B17/20 A61B18/18 A61B5/02 A61B6/00 A61K47/44 A61K9/127 A61K9/16 A61K9/50 A61K9/52 A61M25/02 A61M25/06 A61M31/00 A61M39/00 A61M5/178 A61N1/00 A61N1/05 A61N1/30 A61P9/00 A61P9/06

CPC: A61M25/0084 B82Y5/00 A61B2018/00273 Y10S977/775 Y10S977/907 A61N1/0575 A61B18/1492 A61B2017/00247 A61B2018/00011 A61B2018/00351 A61B2018/00392 A61B2018/00577 A61B2018/00839 A61B2018/1425 A61B2018/1435 A61B2218/002 A61K9/127 A61K9/1676 A61K9/50 A61K9/5084 A61M2025/0089

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US class: 424/1.29 424/1.290P 424/450 424/489 424/490 424/94.4 424/94.400P 514/259.41 514/259.410S 514/312 514/312S 514/563 514/563S 600/431 600/431P 600/435 600/508 600/508P 600/7 600/7P 604/175 604/175P 604/19 604/21 604/21P 604/22 604/264 604/272 604/272S 604/508 604/511 604/511P 606/41 606/41P 607/12 607/120 607/120S 607/122 607/3 623/1.42 623/1.420S 623/904 623/904S 977/775 977/907

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Abstract:
Source: US2002010462A A method of treating the heart and other body tissues by injecting a compound comprised of microsphere encapsulated macromolecule therapeutic agents into the myocardium, such that the microsphere size inhibits capillary transport of the compound but may permit lymphatic transport of the compound, and the compound releases therapeutic agents upon degradation of the microsphere.

0) US5263940A – FLUID DISPENSER

65) Family number: 15417169 (US5263940A) © PatBase

Title: Fluid dispenser

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Publication number	Publication date	Application number	Application date
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Probable Assignee: PESCADERO BEACH HOLDINGS CORP

Assignee(s):(std)**:** KRIESEL MARSHALL S ; SCIENCE INC ; SAJENS INKORPOREJTED

Assignee(s): REVOCABLE TRUST OF BARBARA C GAGE C O MR JOHN K FLOTTMEIER TONKAWA ; REVOCABLE TRUST OF EDWIN C GAGE C O MR JOHN K FLOTTMEIER TONKAWA ; ARLEEN M CARLSON ; ARLEEN M CARLSON 2000 BCG CLAT C O MR JOHN K FLOTT ; ARLEEN M CARLSON 2000 BCG CLAT C O MR JOHN K FLOTTMEIER TONKAWA ; ARLEEN M CARLSON 2000 MCN CLAT C O MR JOHN K FLOTT ; ARLEEN M CARLSON 2000 MCN CLAT C O MR JOHN K FLOTTMEIER TONKAWA ; BRATTAIN DONALD ; EVERS MICHAEL J ; FARLEY WILLIAM F ; WALLIN FAMILY FOUNDATION WINSTON R WALLIN ; TORGERSON PAUL M ; SIT INVESTMENT ASSOCIATES INC ; REVOCABLE TRUST OF EDWIN C GAGE C O MR JOHN K FLOT ; REVOCABLE TRUST OF BARBARA C GAGE C O MR JOHN K FL ; SCIENCE INC BLOOMINGTON MINN US ; SCIENCE INC A DELAWARE CORP ; SIT INVESTMENT ASSOCIATES INC EUGENE C SIT ; LA LLE BANK NATIONAL ASSOC SA ; OKABENA PARTNERSHIP V ; HODDER WILLIAM A ; GROSSMAN INVESTMENTS ATTN LARRY WALLER ; MCGLYNN BURTON J ; LUECK BRUCE C ; POCKET A NOMINE PARTNERSHIP C O MR RANDALL J SUKOV ; LASALLE BANK NATIONAL ASSOCIATION ; PESCADERO BEACH HOLDINGS CORP ; FARLEY WILLIAM F D B A LIVINGSTON CAPITAL ; OKABENA PARTNERSHIP V 8 BRUCE C LUECK PRESIDENT ; POCKET A NOMINE PARTNERSHIP C O MR RANDALL J SUKOVICH BURR OAK GROUP INC

Inventor(s):(std)**:** MARSHALL KRIESEL ; MARSHALL S KRIESEL ; KRIESEL MATTHEW ; KLUCK WILLIAM ; KAZEMZADEH FARHAD ; FENG WILLIAM ; KRIESEL MARSHALL ; KRIESEL MARSHALL S ; BARBER STEVE ; MARSHALL S KRISEL

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Agent(s): PIZZEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; SCIENCE INC; GOUDREAU GAGE DUBUC

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GE GH GM GN GR GW HU IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

International class (IPC 8–9): A61J1/22 A61M37/00 A61M5/14 A61M5/142 A61M5/152 A61M5/168 A61M5/175 (Advanced/Invention);
A61M37/00 A61M5/14 A61M5/142 A61M5/168 (Advanced/Non–invention);
A61M37/00 A61M5/145 (Core/Invention);
A61M5/14 (Core/Non–invention)

International class (IPC 1–7): A61J1/22 A61M1/00 A61M37/00 A61M5/14 A61M5/142 A61M5/152 A61M5/175 A61M5/24

CPC: A61M5/1409 A61M5/16827 A61M5/1407 Y10S128/12 A61M5/152 A61M5/141 A61M2209/045

European class: A61M5/152 K61M209/04F K61M5/14B K61M5/14B2 K61M5/14C K61M5/168A11

US class: 128/DIG.12 604/131 604/132 604/133 604/190

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Abstract:
Source: US5263940A An elastomeric bladder type infusion device for delivering a beneficial agent, such as a drug to a patient at substantially a constant rate. The device uniquely includes an internally disposed functional substrate which carries the beneficial agent so that it can be mixed with the fluid as the fluid is being introduced into the device to distend the bladder to make it an energy source for controllably dispensing the solution mixture to a patient.

0) US3762648A – SPRAY NOZZLE

66) Family number: 25404782 (US3762648A) © PatBase

Title: SPRAY NOZZLE

Priority: GB19720041209 19720905 US19720264959 19720621 US19750546872 19750204 US19730393953 19730904

Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: LYNENWERK KG

Assignee(s):[(std)]**:** LYNENWERK DT KG ; LYNENWERK KG ; TELEDYNE INDUSTRIES INC US ; TELEDYNE INDUSTRIES INC ; TELEDYNE INDUSTRIES INC TE LOS ANGELES CALIFORNIE ; TELEDYNE INDUSTRIES INC 1901 AVENUE OF THE STARS ;

TELEDYNE IND INC ; TELEDYNE IND INC DOING BUSINESS TELEDYN AS ; TELEDYNE IND INC DOING BUSINES ; TELESTYNE IND INC ; LYNENWERK KG DT ; LYNENWERK K G DURENER STRASSE ESCHWEILER KREIS AA ; TELEDYNE IND

Assignee(s): TELEDYNE IND INC US ; TELEDYNE IND INC LOS ANGELES CALIF V ST A ; LYNENWERK K G DURENER STRASSE ESCHWEILER KREIS AAC ; LYNENWERK K G ; LYNENWERK K G DURENER STRASSE ESCHWEILER KREIS AACHEN ALLEMAGNE ; TELEDYNE INDUSTRIES INC LOS ANGELES CALIF V ST A ; TELEDYNE INDUSTRIES INC 1901 AVENUE OF THE STARS LOS ANGELES ETAT DE CALIFORNIE E U A ; TELEDYNE INDUSTRIES INC DOING BUSINESS AS TELEDYNE AQUA TEC COM ; TELEDYNE INDUSTRIES INC LOS ANGELES CALIF (V ST A) ; TELEDYNE INDUSTRIES INC TE LOS ANGELES CALIFORNIE VER ST V AM ; SMITH DAVID W ; TELEDYNE IND INC TE LOS ANGELES CALIFORNIE VER ST V AM ; TELEDYNE IND INC TE LOS ANGELES CALIFORNIE VERSTVAM ; TELESTYNE INDUSTRIES INC ; TRENARY JOHN M ; TELEDYNE INDUSTRIES INC 1901 AVENUE OF THE STARS L ; LYNENWERK K G ESCHWEILER BONDSREPUBLIEK DUITSLAND ; LYNENWERK KG 5180 ESCHWEILER ; LYNENWERK K G DURENER STRASSE ESCHWEILER KREIS ; DEINES SIEGMUND ; HICKMAN CLARENCE J ; LYNENWERK 5180 ESCHWEILER KG ; LYNENWERK AG

Inventor(s):(std)**:** DEINES SIEGMUND ; DW SMITH ; FORT COLLINS ; HANS CHRISTOPH RHIEM ; HICKMAN C J ; HICKMAN CLARENCE J ; HICKMAN CLARENCE JAMES FORT COLLINS ; J M TRENARY ; JM TRENARY ; C J HIEKMAN ; CJ HICKMAN ; D W SMITH ; DEINES S ; RHIEM HANS CHRISTOPH DR ; RHIEM HANS CHRISTOPH DRPHIL ; RHIEM HC ; ROBERT NEY ; S DEINES ; SMITH D W ; SMITH DAVID W ; SMITH DAVID WALLACE WELLINGTON ; TRENARY J M ; TRENARY JOHN M ; TRENARY JOHN MICHAEL ; SMITH DAVID WALLACE ; HIEKMAN C J ; HICKMAN CLARENCE JAMES ; TRENARY J ; SMITH D ; RHIEM HANS CHRISTOPH DR PHIL ; RHIEM HANS CHRISTOPH ; RHIEM H C ; NEY ROBERT ; NEY R ; HICKMAN C

Inventor(s): C J HICKMAN ; HICKMAN C US ; SMITH D US ; TRENARY JOHN M FORT COLLINS ; TRENARY J US ; SMITH DAVID W WELLINGTON ; ROBERT NEY AND HANS CHRBTOPH KHIEM ; RHIEM HANS CHRISTOPH DR PHIL 5180 ESCHWEILER ; DEINES S US ; DAVID W SMITH ; JOHN M TRENARY ; NEY ROBERT 5181 HEISTERN

International class (IPC 8–9): A47K3/28 A61H23/00 A61H9/00 B05B1/08 B05B1/16 B05B1/18 B05B1/34 B05B3/04 B29C47/02 E03C1/08 H01B11/00 H01B13/14 H01B13/24 H01B3/24 H01B7/18 H01B9/00 (Advanced/Invention);
B05B1/18 B05B15/06 (Advanced/Non–invention);
A47K3/28 A61H23/00 A61H9/00 B05B1/02 B05B1/14 B05B1/18 B05B1/34 B05B3/02 B29C47/02 E03C1/02 H01B11/00 H01B13/06 H01B13/22 H01B3/18 H01B7/18 H01B9/00 (Core/Invention);
B05B1/18 B05B15/00 (Core/Non–invention)

International class (IPC 1–7): A47K3/22 A61H23/04 A61H33/00 A61H9/00 B05B1/08 B05B1/10 B05B1/12 B05B1/16 B05B1/18 B05B1/30 B05B1/34 B05B12/06 B05B3/18 B05D B29D3/02 B29F3/10 D07B1/14 D07B1/16 D07B3/02 E03C1/08 H01B13/00 H01B13/12 H01B13/12 H01B13/14 H01B13/14 H01B13/22 H01B13/24 H01B3/08 H01B7/00 H01B7/02 H01B7/02 H01B7/06 H01B7/18

CPC: B05B1/1636 B05B1/18 B05B3/04 B05B15/061 A61H9/00 B29C47/0014 H01B13/14 B29C47/0016 B29C47/0023 B29C47/027 H01B3/24 H01B7/18 H01B7/182 H01B7/187 H01B9/008 H01B11/00 H01B13/24

European class: A61H9/00 B05B1/16B3 B05B3/04 B29C47/02D H01B11/00 H01B13/14 H01B13/24 H01B3/24 H01B7/18 H01B7/18B H01B7/18N H01B9/00T L05B1/18 L05B15/06A

US class: 174/113.00R 174/113R 174/121SR 174/122G 174/124GC 239/381 239/383 239/444 264/134 264/171.16 264/174

Classification Explorer

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Abstract:
Source: US3762648A A spray nozzle especially useful as a showerhead operable to deliver an intermittently interrupted or pulsating spray. Water passing through the device is divided within the device into two flow paths which are recombined prior to discharge through groups of nozzle orifices. Water flowing through one of the flow paths is directed against a turbine blade assembly to drive a rotatable valve rotor in rotation at a rotary speed dependent upon the pressure of water following this flow path. The second flow path bypasses the turbine blades, and hence water following the second flow path does not contribute to the rotary speed of the valve rotor. By adjustably throttling flow through the second flow path, the pressure head or driving force of water in the first flow path against the turbine blades may be varied to thus vary the rotary speed of the valve rotor independently of the supply pressure. Flow of water to each group of nozzle orifices is cyclically interrupted by the rotating valve rotor which connects only a portion of the orifices to supply at a given time. The configuration of the rotating valve port and the arrangement of the groups of nozzle orifices is such that back pressure at the rotating valve port remains constant regardless of the rotary position of the valve port.

0) US2001044632A – DISTAL PROTECTION DEVICE AND METHOD

67) Family number: 13763618 (US2001044632A) © PatBase

Title: DISTAL PROTECTION DEVICE AND METHOD

Priority:

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Family:

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European class: A61B17/221 A61B17/22E A61F2/01 A61F2/01D K61B17/00N2 K61B17/221 K61B17/221C K61B17/22G K61B17/22G3 K61B17/22G8 K61B17/22H5 K61F2/01B K61F2/01D2 K61F2/30A1W20 K61F210/00D K61F250/00F K61M25/09L K61M25/09T1

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Abstract:
Source: US2001044632A An emboli capturing system captures emboli in a body lumen. A first elongate member has a proximal end and a distal end. An expandable emboli capturing device is mounted proximate the distal end of the first elongate member, and is movable between a radially expanded position and a radially contracted position. When in the expanded position, the emboli capturing device forms a basket with a proximally opening mouth. A second elongate member has a proximal and a distal end with a lumen extending therebetween. The lumen is sized to slidably receive a portion of the first elongate member. An expandable delivery device is mounted to the distal end of the second elongate member and is movable from a radially retracted position to a radially expanded position. The delivery device has a receiving end configured to receive the emboli capturing device, and retains at least the mouth of the emboli capturing device in a radially retracted position.

0) US5234456A – HYDROPHILIC STENT

68) Family number: 17947883 (US5234456A) © PatBase

Title: Hydrophilic stent

Priority: CA19912035853 19910206 US19900477264 19900208 US19920883241 19920507

Family:

Publication number	Publication date	Application number	Application date
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Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; SMART AND BIGGAR

Designated states: AT BE CH DE DK ES FR GB GR IT LI LU NL SE

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Abstract:
Source: US5234456A A stent for placement within a body lumen and comprising a wall structure wherein at least a portion thereof is a hollow wall. The hollow wall has disposed therein a hydrophilic material which can be in the

form of a gel, for example, which swells upon introduction of a liquid into the hollow wall to thereby achieve inflation thereof. The hollow wall is fabricated of a semi−permeable membrane whereby fluid from tissues surrounding the stent at the site of placement can pass through the membrane and swell the hydrophilic material to thereby inflate the hollow wall. A drug can be disposed with the hydrophilic material for release through the membrane at the site of stent placement. The entire wall structure of the stent can be a hollow wall, or the wall structure can incorporate both hollow and non−hollow wall portions such as hollow and solid fibers which are braided, woven or wound together.

0) US2002026231A – RADIALLY EXPANDABLE STENTED TUBULAR PTFE GRAFTS...

69) Family number: 28187156 (US2002026231A) © PatBase

Title: RADIALLY EXPANDABLE STENTED TUBULAR PTFE GRAFTS

Priority: JP19980504286 19970626 JP19980504286 19970626 US19960675644 19960703 US19990358350 19990721 US20010001765 20011031 WO1997US11106 19970626 US20010981337 20011016 US20010997829 20011129 WO2002US35065 20021031 US20040928672 20040826

Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: EDWARDS LIFESCIENCES CORP

Assignee(s):(std)**:** BAXTER INT INC COMPA ; EDWARDS LIFE SCIENCE CORP ; EDWARDS LIFESCIENCES CORP ; TU BENNY ; SHANNON DONALD T ; BAXTER INT

Assignee(s): MCINTYRE JOHN ; MCLNTYRE JOHN ; BAXTER INT INC ; KUO CHRIS ; BAXTER INT INC COMPANHIA AMERICANA ; CHU YIZI ; CLINKENBEARD RONALD L

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Agent(s): PETER MAXWELL AND ASSOCIATES; SIM AND MCBURNEY; BCF LLP; EDWARDS LIFESCIENCES CORP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): A61F2/00 A61F2/06 A61F2/07 A61F2/84 A61F2/90 A61F2/915 A61L27/00 A61L27/34 A61L27/50 A61L27/58 A61L31/00 A61L31/10 A61L31/14 A61P9/00
B29C53/58 (Advanced/Invention);
A61F2/00 A61F2/90 B29C53/58 (Advanced/Non–invention);
A61F2/06 A61F2/82 A61L31/00 A61L31/08 A61L31/14 A61P9/00 (Core/Invention);
A61F2/00 A61F2/82 (Core/Non–invention)

International class (IPC 1–7): A61F2/04 A61F2/06 A61J2/06 A61L27/00 A61L27/34 A61L27/50 A61L27/58 A61L31/00 A61L31/10 A61L31/14 A61M29/02 A61P9/00

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European class: A61F2/07 A61L31/10 A61L31/14 K61F2/06S6N K61F2/07B K61F2/07C K61F2/90 K61F240/00M K61F250/00W5 L29C53/58 L29K227/18 L29K27/18 L29L31/7534

US class: 206/438 206/438S 623/1 623/1.13 623/1.130P 623/1.15 623/1.150S 623/1.19 623/1.190S 623/1.42 623/1.420S 623/1.44 623/1.46 623/1.460P 623/1.49 623/1.490S 623/12 623/901

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Abstract:
Source: US2002026231A Stented tubular grafts of expanded, sintered polytetrafluoroethylene (PTFE). The stented PTFE grafts of the present invention include an integrally stented embodiment, an externally stented embodiment, and an internally stented embodiment. In each embodiment, the stent may be either self−expanding or pressure−expandable. Also, in each embodiment, the stent may be coated or covered with a plastic material capable of being affixed (e.g., heat fused) to PTFE. Manufacturing methods are also disclosed by the individual components of the stented grafts are preassembled on a mandrel and are subsequently heated to facilitate attachment of the PTFE layer(s) to one another and/or to the stent. Optionally, the stented graft may be post−flexed and post−expanded following it's removal from the mandrel to ensure that the stented graft will be freely radially expandable and/or radially contractible over it's full intended range of diameters.

0) US2006163515A – FLUID HANDLING DEVICE AND METHOD OF MAKING SAME...

70) Family number: 31423939 (US2006163515A) © PatBase

Title: FLUID HANDLING DEVICE AND METHOD OF MAKING SAME

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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 KP KR KZ LC 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

International class (IPC 8–9): A61M39/26 A61M5/00 B23P15/00 F16K51/00 F16L29/00 F16L37/28 (Advanced/Invention); A61M39/04 (Advanced/Non–invention)

International class (IPC 1–7): A61M5/00 F16K51/00 F16L29/00 F16L37/28

CPC: Y10T29/49405 A61M39/26 A61M39/045 A61M2039/266

European class: A61M39/26 K61M39/04B K61M39/26F

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AU2010213699,

Abstract:
Source: US2006163515A A fluid handling device, such as a needlefree access device, includes a housing having an inlet and an inlet channel; and a flow control member comprising a combination outlet, biasing and piston member. The flow control member includes a piston section moveable between a closed position in which the piston section is inside the housing below the inlet channel but allows fluid to flow through the inlet channel; a biasing section connected to the piston section that normally biases the piston section into the inlet channel; and an outlet section connected to the biasing section having an outlet fitting in fluid communication with the inside of the housing.

0) US2004199052A – ENDOSCOPIC IMAGING SYSTEM

71) Family number: 31033484 (US2004199052A) © PatBase

Title: ENDOSCOPIC IMAGING SYSTEM

Priority:

EP20040749481	20040329	EP20050815595	20050930	EP20130164194	20040329
JP20060509401	20040329	US20040811781	20040329	US20030406149	20030401
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Family:

Publication number	Publication date	Application number	Application date
AU2004226380 AA	20041014	AU20040226380	20040329
AU2005292229 AA	20060413	AU20050292229	20050930
AU2005292229 BB	20120315	AU20050292229	20050930
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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 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

International class (IPC 8–9): A61B1/00 A61B1/005 A61B1/008 A61B1/01 A61B1/015 A61B1/018 A61B1/04 A61B1/045 A61B1/05 A61B1/06 A61B1/12 A61B17/00 G02B23/24 (Advanced/Invention);
A61B1/00 A61B1/015 A61B1/04 A61B1/05 A61B1/06 A61B1/31 A61B17/00 (Advanced/Non–invention);
A61B1/00 A61B1/005 A61B1/008 A61B1/04 A61B1/06 G02B23/24 (Core/Invention);
A61B1/012 A61B1/05 A61B1/31 (Core/Non–invention)

International class (IPC 1–7): A61B1/00 A61B1/008 A61B1/01 A61B1/015 A61B1/04 A61B1/06 A61B1/12

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European class: A61B1/005B A61B1/005B4 A61B1/005B6 A61B1/008 A61B1/00C6 A61B1/00C9 A61B1/00E4 A61B1/00E4H A61B1/00F A61B1/00F6 A61B1/00P A61B1/015 A61B1/06 A61B1/06P A61B1/06R4 A61B1/06R6 A61B1/12E A61B1/12G K61B1/005B K61B1/005B4 K61B1/015 K61B1/05 K61B1/06R6 K61B1/31

US class: 137/560 137/560S 600/103 600/104 600/109 600/109S 600/117 600/117P 600/118 600/118P 600/118S 600/127 600/129 600/129S 600/131 600/132 600/132P 600/139 600/141 600/141P 600/141S 600/142 600/142P 600/143 600/144 600/145 600/146 600/146S 600/152 600/152S 600/153 600/156 600/156P 600/156S 600/159 600/159P 600/169 600/179 600/179P 600/179S

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JP2015160078, JP2013504400, JP2013176465, JP2013034547, JP2012511357, JP2010528714, JP2010503890, JP2009534113, JP2009213540, JP2008541789, JP2008514381, JP2008154809, JP2007252925, JP2007020937, JP2006192090, GB2518815, ES2589170, EP3038346, EP2996621, EP2996613, EP2965686, EP2961310, EP2961309, EP2944296, EP2941175, EP2941175, EP2883491, EP2819609, EP2702926, EP2648603, EP2648603, EP2621159, EP2621158, EP2594188, EP2524645, EP2478693, EP2478693, EP2417899, EP2336818, EP2330965, EP2301413, EP2286715, EP2266452, EP2190339, EP2190339, EP2173231, EP2151184, EP2151182, EP2148608, EP2129964, EP2129964, EP2117417, EP2117417, EP2105087, EP2060226, EP2050383, EP1962665, EP1908389, EP1900318, EP1894517, EP1891882, EP1862108, EP1754438, EP1738679, DE102012108076, DE102012105061, DE102011055526, DE102010034378, DE102008055629, CN105377105, CN105377103, CN105358042, CN105342539, CN105228503, CN104902801, CN104902798, CN104771226, CN104116528, CN103785089, CN103584829, CN103584829, CN103536268, 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CN103417177, CN103417177, CN103298391, CN103271786, CN103006165, CN103006165, CN102821668, CN102821668, CN102789049, CN102727159, CN102576185, CN102525380, CN102481091, CN102271572, AU2010282301,

Abstract:
Source: US2004199052A An endoscopic imaging system includes a reusable control cabinet having a number of actuators that control the orientation of a lightweight endoscope that is connectable thereto. The endoscope is used with a single patient and is then disposed. The endoscope includes an illumination mechanism, an image sensor and an elongate shaft having one or more lumens located therein. A polymeric articulation joint at the distal end of the endoscope allows the distal end to be oriented by the control cabinet. The endoscope is coated with a hydrophilic coating that reduces its coefficient of friction and because it is lightweight, requires less force to advance it to a desired location within a patient.

0) US5820767A – METHOD FOR QUANTITATION OF MICROORGANISM CONTAM...

72) Family number: 11825656 (US5820767A) © PatBase

Title: METHOD FOR QUANTITATION OF MICROORGANISM CONTAMINATION OF LIQUIDS

Priority: US19960681634 19960729 US19980102631 19980623 WO1997US13517 19970725 WO1997US13517 19970725

Family:

Publication number	Publication date	Application number	Application date
AU199739682 A1	19980220	AU19970039682	19970725
AU723744 B2	20000907	AU19970039682	19970725
CA2264958 AA	19980205	CA19972264958	19970725
CA2264958 C	20080122	CA19972264958	19970725
DE69729303 D1	20040701	DE19976029303	19970725
DE69729303 T2	20050525	DE19976029303T	19970725
EP0915964 A2	19990519	EP19970937080	19970725
EP0915964 B1	20040526	EP19970937080	19970725
GB2329394 A1	19990324	GB19980028769	19970725
GB2329394 B2	20001122	GB19980028769	19970725
GB9828769 A0	19990217	GB19980028769	19970725
JP2000517171 T2	20001226	JP19980509157T	19970725
KR20000029540 A	20000525	KR19997000598	19990125
US5820767 A	19981013	US19960681634	19960729
US5979668 A	19991109	US19980102631	19980623
WO9804675 A2	19980205	WO1997US13517	19970725
WO9804675 A3	19980305	WO1997US13517	19970725

Probable Assignee: PALL CORP

Assignee(s):(std): PALL CORP

Assignee(s): PALL CORP EAST HILLS ; BORTON NOEL TOD ; GELMAN SCIENCES INC ; KANE JEFFREY F

Inventor(s):(std): BORTON NOEL TOD ; BORTON TOD ; KANE F ; KANE JEFFREY F ; KANE JEFFREY FRANCIS

Inventor(s): KANE JEFFREYF ; NOEL TOD BORTON ; JEFFREY F KANE ; BORTON NOELTOD

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; MARKS AND CLERK

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CZ DE DK EE ES FI FR GA GB GE GH GR HU IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SN SZ TG TJ TM TR TT UA UG UZ VN ZW

International class (IPC 8–9): C12M1/12 C12M1/34 C12Q1/06 (Advanced/Invention); C12M1/12 C12Q1/06 (Advanced/Non–invention); C12M1/12 C12M1/34 C12Q1/06 (Core/Invention)

International class (IPC 1–7): B01D21/26 B01D27/06 B01D27/08 C12M1/12 C12M1/34 C12M3/00 C12Q1/06

CPC: C12M41/36 B01D29/05 B01D29/21 B01D2201/127 C02F2209/36 G01N2001/4088

European class: B01D29/05 B01D29/21 C12M41/36 L01D201/12S M02F209/36 S01N1/40V3

US class: 210/435 210/446 210/493.1 210/493.5 210/497.01 210/787 210/794 435/30 435/4 435/7.2

Classification Explorer

Cited documents: WO9428110 A1, US5820767 A, US5527705 A, US5510026 A, US5500134 A, US5174896 A, US4895805 A, US4693985 A, US4361483 A, US4126559 A, JP5306978 A2, JP1312991, EP0148290 A1, DE3829028 A1,

Forward Citations:

WO04073831, WO02062941, WO0023792, USD734363, USD594927, USD546769, USD546768, USD541372, USD538749, USD521594, US9488563, US9480950, US9470612, US9388448, US9090449, US9090448, US9090447, US9090446, US8956880, US8647508, US8606395, US8565917, US8548624, US8535945, US8290616, US8290615, US8190290, US8105779, US8103378, US8066790, US8008017, US7918368, US7776219, US7708172, US7689476, US7645383, US7611031, US7585631, US7547384, US7484388, US7419073, US7416097, US7389895, US7371322, US7367480, US7356381, US7337924, US7335312, US7320750, US7294274, US7282147, US7278552, US7258781, US7252757, US7204259, US7203572, US7168592, US7083071, US7081527, US7032780, US7032779, US7004355, US6986263, US6977042, US6971525, US6932913, US6915925, US6896159, US6857541, US6846413, US6260709, US6217540, US6207053, US6187530, US5979668, US2015217233, US2014116966, US2011236924, US2010147780, US2010018071, US2009255880, US2009152210, US2008245720, US2008177215, US2007020661, US2006141636, US2006032494, US2005045553, US2005000882, US2004262213, US2004173543, US2004159319, US2003024872, US2002146717, JP4772242, JP2007501020, JP2002153297, EP2962082, EP2869913, EP1360274, DE102014119441, AU2005316276,

Abstract:
Source: US5820767A Use of a disposable filtration capsule with a non−occluded membrane filter element in the place of a standard spiral wound cartridge allows for the more rapid and quantitative filtration, recovery, and quantitation of microorganisms in liquid, particularly surface waters, well water, tap water, and the like. The capsule allows a severe reduction in the water sample size tested, substantially minimizes risks of cross−contamination, and provides a leak−proof vessel for shipment. Risk of infection of laboratory personnel and time of analysis are both reduced. Costs of measuring contamination by microorganisms such as Giardia and Cryptosporidium is lowered significantly while increasing the accuracy and dependability of the measurement.

73) Family number: 30455821 (US2002081657A) © PatBase

Title: 21784, A NOVEL HUMAN CALCIUM CHANNEL FAMILY MEMBER AND USES THEREOF

Priority:

US20000209238P 20000605 US20000209238P 20000605 US20000209257P 20000605
US20000225522P 20000815 US20010279281P 20010328 US20000226770P 20000821
US20000209845P 20000606 US20010290288P 20010511 US20000227068P 20000822
US20010875423 20010605 US20030344781 20031205 US20010875363 20010605
US20010934421 20010821 US20040916061 20040811 US20020162102 20020604
WO2001US18340 20010606 WO2001US18398 20010605 WO2001US18247 20010605
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WO2001US25475 20010815 WO2001US25474 20010815 WO2001US26096 20010821
WO2002US09728 20020328

Family:

Publication number	Publication date	Application number	Application date
AU2001265384 AA	20011217	AU20010265384	20010606
AU2001266728 AA	20011217	AU20010266728	20010605
AU2001275338 AA	20011217	AU20010275338	20010605
AU2001284911 AA	20020708	AU20010284911	20010815
AU2001284912 AA	20020304	AU20010284912	20010815
AU2001285145 AA	20020304	AU20010285145	20010821
AU200165384 A5	20011217	AU20010065384	20010606
AU200166728 A5	20011217	AU20010066728	20010605
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AU200184912 A5	20020304	AU20010084912	20010815
AU200185145 A5	20020304	AU20010085145	20010821
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US2002081657 AA	20020627	US20010875423	20010605
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US2003032021 AA	20030213	US20010934421	20010821
US2003049724 AA	20030313	US20010875321	20010606
US2003113841 AA	20030619	US20020144624	20020513
US2003232336 AA	20031218	US20020162102	20020604
US2004096602 AA	20040520	US20030344781	20031205
US2005009142 AA	20050113	US20040916061	20040811
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WO0194412 C2	20021010	WO2001US18247	20010605
WO0194584 A2	20011213	WO2001US18398	20010605
WO0194584 A3	20030116	WO2001US18398	20010605
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WO02079427 A3	20031231	WO2002US09728	20020328
WO0214047 A2	20020221	WO2001US25474	20010815

WO0214047 A3	20020704	WO2001US25474	20010815	
WO0216582 A2	20020228	WO2001US25475	20010815	
WO0216582 A3	20030206	WO2001US25475	20010815	
WO0216589 A2	20020228	WO2001US26096	20010821	
WO0216589 A3	20030313	WO2001US26096	20010821	

Probable Assignee: AMES COMPANIES INC

Assignee(s):(std)**:** AMES PLANTER INC ; CURTIS RORY A J ; GU WEI ; KNICKLEBINE DAVE P ; CARLSON TOOL AND MFG CORP ; MILLENNIUM PHARM INC ; NAT SALES CO L L C ; SILOS SANTIAGO INMACULADA ; RICE FRANK J ; LAABS BRUCE A JR ; MILLENIUM PHARMACEUTICALS INC ; MILLENNIUM PHARMACEUTICALS INC

Assignee(s): AMES COMPANIES INC ; NATIONAL SALES CO L L C ; NATIONAL SALES CO LLC D B A DYNAMIC DESIGN ; LAABS JR BRUCE A ; NATIONAL SALES CO LLC ; NATIONAL LES CO SA ; NATIONAL SALES CO ; GOLDMAN SACHS LENDING PARTNERS LLC COLLATERAL AGENT AS ; CURTIS RORY AJ ; CURTIS RORY A ; GOLDMAN SACHS LENDING PARTNERS LLC COLLATERAL AGEN ; JPMORGAN CHASE BANK NA ADMINISTRATIVE AGENT AS ; LAABS BRUCE A ; CARLSON TOOL AND MFG ; DAVE P KNICKLEBINE ; AMES TRUE TEMPER INC ; AMES TRUE TEMPER PROPERTIES INC ; ATT HOLDING CO ; BANK OF AMERICA NA ; BANK OF AMERICA NA COLLATERAL AGENT AS ; CARLSON TOOL AND MANU CTURING FA

Inventor(s):(std)**:** CURTIS RORY A J ; LAABS BRUCE A JR ; GU WEI ; KNICKLEBINE DAVE P ; SILOS SANTIAGO INMACULADA ; RICE FRANK J ; LAABS JR BRUCE A ; RORY A J CURTIS

Inventor(s): FRANK J RICE ; INMACULADA SILOS SANTIAGO ; LAABS BRUCE A ; LAABS ; JR BRUCE A ; CURTIS RORY AJ ; DAVE P KNICKLEBINE ; CURTIS RORY A ; BRUCE A LAABS JR ; CURTIS RORY

Agent(s): MCFADDEN FINCHAM; OSLER HOSKIN AND HARCOURT LLP; MILLENNIUM PHARMACEUTICALS INC; ECKERT SEAMANS CHERIN AND MELLOTT LLC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

International class (IPC 8–9): B29C45/17 C07K14/47 C07K14/705 C12N15/12 C12N15/62 C12N5/10 C12Q1/68 (Advanced/Invention); A61K38/00 (Advanced/Non–invention); C07K14/435 (Core/Invention); A61K38/00 (Core/Non–invention)

International class (IPC 1–7): A61K31/70 A61K38/00 A61K38/16 A61K38/17 A61K39/00 A61K39/00 A61K48/00 B29C45/17 B29D24/00 B32B1/08 C07H21/02 C07H21/04 C07K14/00 C07K14/435 C07K14/47 C07K14/705 C07K16/18 C07K16/28 C12N15/00 C12N15/12 C12N15/62 C12N15/63 C12N5/06 C12N9/00 C12P21/02 C12Q1/68 G01N16/28 G01N33/50 G01N33/53 G01N33/577 G01N33/68

CPC: C07K14/47 C12Q2600/158 C12Q1/6883 A01K2217/05 A01K2217/075 A61K38/00 C07K14/705 Y10T428/13 B29C45/1704 B29C2045/1727 B29L2031/7136

European class: B29C45/17B2 C07K14/47 C07K14/705 C12Q1/68M6 K01K217/05 K01K217/07B K61K38/00 L29C45/17B2Q L29L31/7136 M07K203/00 M07K203/02 M07K205/00 M07K207/00 M07K213/02 M07K215/00

US class: 264/40.1 264/40.100S 264/572 264/572S 424/130.1 424/130.100S 428/34.1 428/34.100P 435/183 435/183S 435/320.1 435/320.100S 435/325 435/325S 435/6 435/6.11 435/6.110S 435/6.12 435/6.120P 435/6.13 435/6.130P 435/6.130S 435/6.14 435/6.140S 435/69.1 435/69.100P 435/69.100S 435/6P 435/7.1 435/7.100S 514/1.2 514/1.200P 514/1.200S 514/12 514/17.4 514/17.400S 514/18.2 514/18.200S 514/19.3 514/19.300S 514/19.4 514/19.400S 514/19.5 514/19.500S 514/19.6 514/19.600S 514/19.8 514/19.800S 514/7 514/7.3 514/7.300S 514/8.3 514/8.300S 530/35 530/350 530/350S 530/388.1 530/388.100S 536/23.2 536/23.200S 536/23.5 536/23.500S

Classification Explorer

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A, US5401459 A, US5387391 A, US5186884 A, US4101617 A, JP8142230, JP8002336, JP6286565 A2, JP6136024 A2, JP6055565, JP4231589 A2, JP2000168853, JP10346219 A2, GB2307664 A1, EP06330774, EP0630774 A1,

Forward Citations: WO14031594, WO05105132, WO03076571, WO03076571, WO0231150, WO0231150, WO02072632, WO02068472, WO02068472, US9618521, US9067343, US8859197, US8852860, US8835105, US8729248, US8258105, US8211666, US8137918, US8110668, US8084436, US7741040, US7611693, US2014288848, US2013075951, US2010324122, US2009249499, US2009223977, US2009145165, US2009104604, US2009004744, US2008260763, US2008115224, US2007021599, US2006257868, US2006123497, US2006063166, US2005191653, US2005085918, US2004157292, EP1574576, EP1574313, EP1572905, EP1572905, EP1430132, EP1293322, EP1194439, EP1194439,

Abstract:
Source: US2002081657A The invention provides isolated nucleic acids molecules, designated 21784 nucleic acid molecules, which encode novel calcium channel members. The invention also provides antisense nucleic acid molecules, recombinant expression vectors containing 21784 nucleic acid molecules, host cells into which the expression vectors have been introduced, and nonhuman transgenic animals in which a 21784 gene has been introduced or disrupted. The invention still further provides isolated 21784 proteins, fusion proteins, antigenic peptides and anti−21784 antibodies. Diagnostic methods utilizing compositions of the invention are also provided.

0) US5527282A – VASCULAR DILATATION DEVICE AND METHOD

74) Family number: 12236417 (US5527282A) © PatBase

Title: VASCULAR DILATATION DEVICE AND METHOD

Priority: US19940353558 19941209 US19950569579 19951208 WO1995US16057 19951211 US19970969220 19971113 US19960647696 19960515

Family:

Publication number	Publication date	Application number	Application date
AT224752 E	20021015	AT19950943401T	19951211
AU199644677 A1	19960626	AU19960044677	19951211
AU703089 B2	19990318	AU19960044677	19951211
CA2207211 AA	19970606	CA19952207211	19951211
DE69528385 D1	20021031	DE19956028385	19951211
DE69528385 T2	20030522	DE19956028385T	19951211
DK0843571 T3	20030203	DK19950943401T	19951211
EP0843571 A1	19980527	EP19950943401	19951211
EP0843571 A4	19981223	EP19950943401	19951211
EP0843571 B1	20020925	EP19950943401	19951211
ES2183892 T3	20030401	ES19950943401T	19951211
JP10510188 T2	19981006	JP19960517809T	19951211
PT843571 T	20030228	PT19950943401T	19951211
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US5695469 A	19971209	US19950569579	19951208
US5755708 A	19980526	US19960647696	19960515
US6059752 A	20000509	US19970969220	19971113
WO9617645 A1	19960613	WO1995US16057	19951211

Probable Assignee: RADIOVASCULAR SYSTEMS LLC

Assignee(s):(std)**:** JEROME SEGAL ; SEGAL JEROME

Assignee(s): BOSTON SCIENTIFIC SCIMED INC ; MEDLUMINAL SYSTEMS INC ; RADIOVASCULAR SYSTEMS LLC ; RADIOVASCULAR SYSTEMS LLC SUITE

Inventor(s):(std)**:** SEGAL JEROME

Inventor(s): JEROME SEGAL

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SMART AND BIGGAR

Designated states: AT AU BE CA CH DE DK ES FR GB GR IE IT JP LI LU MC NL PT SE

International class (IPC 8–9): A61F2/00 A61F2/06 A61F2/82 A61F2/84 A61F2/90 A61M25/04 A61M25/10 A61M29/00 A61M29/02 (Advanced/Invention); A61F2/00 A61F2/06 A61F2/82 A61F2/90 A61M29/00 (Advanced/Non–invention); A61F2/82 A61M25/02 A61M25/10 A61M29/00 A61M29/02 (Core/Invention); A61F2/00 A61F2/06 (Core/Non–invention)

International class (IPC 1–7): A61M25/04 A61M29/00

CPC: A61F2/958 A61F2/0077 A61F2/90 A61F2/91 A61F2002/3008 A61F2002/30448 A61F2002/828 A61F2220/005 A61F2250/0098 A61M25/10 A61M29/00 A61M29/02 A61M2025/1068 A61M2025/1097

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Abstract:
Source: US5527282A A vascular dilatation device for enlarging a flow passage in an obstruction in a vessel carrying flowing blood. A flexible cylindrical dilatation member is provided for placement in the obstruction and has first and second ends and an intermediate portion between the first and second ends with an interior flow passage extending therethrough having a diameter and a longitudinally extending central axis. The diameter of the flow passage is variable with movement of the first and second ends relative to each other along the longitudinally extending central axis from a contracted position to an expanded condition. The flexible cylindrical dilatation member is comprised of a plurality of flexible elongate elements each of which extends helically about the longitudinally extending central axis. First and second collars respectively engage the first and second ends of the flexible cylindrical dilatation member to retain the first and second ends in contracted positions. A mechanism is provided for causing relative axial movement of the first and second ends towards each other to cause an intermediate portion of the flexible cylindrical dilatation member to expand to form a rigid cylinder and thereby enlarge the obstruction spaces between the flexible elongate elements at the first and second ends so that blood in the vessel can continue to flow through said first and second ends and through the interior flow passage.

0) US2003138378A – METHOD AND APPARATUS FOR EXAMINING TISSUE FOR P...

75) Family number: 28847056 (US2003138378A) © PatBase

Title: METHOD AND APPARATUS FOR EXAMINING TISSUE FOR PREDEFINED TARGET CELLS, PARTICULARLY CANCEROUS CELLS, AND A PROBE USEFUL IN SUCH METHOD AND APPARATUS

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Probable Assignee: DUNE MEDICAL DEVICES LTD

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Inventor(s): HASHIMSHONY DAN COHEN GIL

Agent(s): OGILVY RENAULT LLP SENCRL SRL; NORTON ROSE CANADA SENCRL SRL LLP; INTEGRAL IP; MARKS AND CLERK LUXEMBOURG LLP; SCHMITZ JEAN MARIE ET AL; DENNEMEYER AND ASSOCIATES SA; BECKER KURIG STRAUS; VALLEJO JUAN PEDRO; CARPINTERO MARIO; GE EHRLICH 1995 LTD; MARTIN MOYNIHAN C O ANTHONY CASTORINA; MARTIN MOYNIHAN, C/O ANTHONY CASTORINA; MARTIN MOYNIHAN, PRSTI INC; MARTIN MOYNIHAN PRSTI INC; MARTIN D MOYNTHAN PRTSI INC; MARTIN D MOYNIHAN PRTSI INC; BROWDY AND NEIMARK PLLC 624 NINTH STREET NW; MARTIN D MOYNIHAN, PRTSI INC; MARTIN D MOYNIHAN D B A PRTSI INC; HOUSTON ELISEEVA; BROWDY AND NEIMARK PLLC; GE EHRLICH 1995 LTD ET AL; REINHOLD COHN AND PARTNERS

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 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 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

International class(IPC 8–9)**:** A01H5/00 A61B1/00 A61B1/018 A61B1/04 A61B1/05 A61B10/00 A61B10/02 A61B10/04 A61B17/00 A61B17/32 A61B18/08 A61B18/18 A61B19/00 A61B5/00 A61B5/01 A61B5/04 A61B5/05 A61B5/053 A61B5/055 A61B5/06 A61B5/103 A61B5/117 A61B6/00 A61B6/03 A61B8/00 A61B8/08 A61B8/12 A61B8/14 A61K49/00 A61K49/16 A61K49/18 A61M25/09 B25G3/38 C12M1/34 C12M3/00 C12Q1/00 G01M19/00 G01M99/00 G01N22/00 G01N22/02 G01N23/04 G01R27/26 G01R33/28 G01R33/34 G01R33/60 G01V3/00 G02B23/24 G06F17/30 G06F19/00 G06F3/048 (Advanced/Invention); A61B10/00 A61B10/02 A61B17/00 A61B19/00 A61B5/00 A61B5/01 A61B5/053 A61B5/055 A61B5/06 A61B5/103 A61B6/00 A61B8/00 A61B8/12 A61B8/13 (Advanced/Non–invention); A01H5/00 A61B1/00 A61B1/012 A61B10/00 A61B17/00 A61B17/32 A61B18/04 A61B18/18 A61B19/00 A61B5/00 A61B5/05 A61B5/053 A61B5/055 A61B5/06 A61B5/103 A61B5/117 A61B6/00 A61B8/00 A61B8/08 A61B8/12 A61K49/06 A61M25/09 B25G3/00 G01N22/00 G01N23/02 G02B23/24 (Core/Invention); A61B10/00 A61B10/02 A61B17/00 A61B19/00 A61B5/00 A61B5/053 A61B5/055 A61B5/06 A61B6/00 A61B8/00 A61B8/12 (Core/Non–invention); A61B (Subclass/Invention)

International class(IPC 1–7)**:** A01H5/00 A61B A61B1/04 A61B10/00 A61B18/04 A61B5/05 A61B6/00 A61K49/00 G01N G01N22/00 G01V3/00 G06F17/30

CPC: G01R27/2664 A61B1/018 A61B1/04 A61B5/418 A61B5/4839 G06F19/363 A61B10/0041 A61B10/0275 A61B17/320068 A61B18/24 A61B18/245 A61B2017/00022 A61B2017/00084 A61B2017/00809 A61B17/320016 A61B17/320783 Y10S607/901 A61B5/00 A61B5/0055 A61B5/444 A61B5/445 A61B6/00 A61B6/037 A61B8/00 A61B8/4455 B25G1/06 B25G1/102 A61B2560/0425 A61B8/445 A61B8/4245 A61B5/415 A61B5/0086 A61B5/01 A61B5/0507 A61B8/4472 A61B18/082 A61B2017/00026 A61B5/0062 A61B5/4381 A61B5/0073 A61B2017/00057 A61B2017/00061 A61B2017/00106 A61K49/00 A61B5/0071 A61B5/0075 A61B5/0091 A61B5/0538 A61B5/065 A61B5/411 A61B5/416 A61B90/39 A61B2034/107 A61B2034/2051 A61B2034/2055 A61B2090/367 A61B2090/378 A61B2090/395 G01R33/60 A61B10/0266 G01R33/3808 A61B6/032 A61B5/0059 A61B5/0536 A61B5/055 A61B5/103 A61B5/4312 A61B5/6834 A61B5/6843 A61B5/6844 A61B5/6885 A61B5/6886 A61B6/4417 A61B6/5247 A61B8/13 A61B5/068 A61B5/05 A61B5/0084 A61B5/015 A61B5/053 A61B5/06 A61B5/064 A61B8/0858 A61B8/12 A61B34/20 A61B34/25 A61B34/30 A61B2090/061 A61B2562/0233 A61B2562/046 G06F3/0481 G06F19/321 G06F19/3406 G06F19/3437 G06F19/3481 A61B90/30

European class: A61B1/018 A61B1/04 A61B10/00G A61B10/02P6N A61B17/3207S A61B17/32E A61B17/32U A61B18/08B A61B19/52H12 A61B19/56 A61B5/00 A61B5/00M6 A61B5/00P A61B5/00P1 A61B5/00P12B A61B5/00P12F A61B5/00P5 A61B5/00P6 A61B5/00P7

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US class: 1/1 324/600 324/632 324/642 424/9.6 424/9.600P 600/101 600/104 600/300 600/300S 600/301 600/301P 600/363 600/372 600/373 600/382 600/407 600/407P 600/407S 600/409 600/410 600/410P 600/411 600/411S 600/415 600/415P 600/420 600/421 600/424 600/431 600/436 600/436S 600/438 600/438S 600/439 600/439S 600/459 600/474 600/474S 600/476 600/476P 600/476S 600/547 600/547P 600/547S 600/549 600/549S 600/552 600/552P 600/562 600/562P 600/585 600/587 600/587P 600/587S 606/1 606/13 606/167 606/167S 606/1P 606/1S 606/32 606/32P 606/41 606/41S 607/901 715/771 715/771S 73/865.8 73/865.800S

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Abstract:
Source: US2003138378A A method, apparatus and probe for examining tissue for the presence of target cells, particularly cancerous cells, by subjecting the tissue to be examined to a contrast agent containing small particles of a physical element conjugated with a biological carrier selectively bindable to the target cells. Energy pulses are applied to the examined tissue. The changes in impedance and/or optical characteristics of the examined tissue produced by the applied energy pulses are detected and utilized for determining the presence of the target cells in the examined tissue. In a described preferred embodiment, the applied energy pulses include laser pulses, and the physical element conjugated with a biological carrier is a light−sensitive semiconductor having an impedance which substantially decreases in the presence of light. The same probe used for detecting the targeted cells may also be used for destroying the cells so targeted.

0) US2011036240A – HIGH PRESSURE LIQUID DEGASSING MEMBRANE CONTACT...

76) Family number: 48319667 (US2011036240A) © PatBase

Title: HIGH PRESSURE LIQUID DEGASSING MEMBRANE CONTACTORS AND METHODS OF MANUFACTURING AND USE

Priority: JP20120525637 20100817 JP20120525637T 20100817 US20090234465P 20090817 US20100857199 20100816 US20100389604 20100817 US20130964594 20130812 WO2010US45736 20100817

Family:

Publication number	Publication date	Application number	Application date
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WO11022380 A1	20110224	WO2010US45736	20100817

Probable Assignee: 3M INNOVATIVE PROPERTES CO

Assignee(s):(std)**:** CELGARD LLC ; SENGUPTA AMITAVA ; TAYLOR GARETH P ; 3M INNOVATIVE PROPERTIES CO

Assignee(s): BANK OF AMERICA NA ADMINISTRATIVE AGENT AS ; 3M INNOVATIVE PROPERTES CO ; CELGARD LLC F K A CELGARD INC

Inventor(s):(std)**:** AMITAVA SENGUPTA ; SENGUPTA AMITAVA ; TAYLOR GARETH P

Agent(s): SCHROEDER RICHARD; MATSUTOYA YUKO; TANAKA REIKO; KITANO TAKESHI; YAMADA YUKI; MORI TETSUYA; HAMMER AND ASSOCIATES PC; HAMMER ROBERT H 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 TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9)**:** B01D19/00 B01D53/22 B01D61/00 B01D61/04 B01D63/00 B01D63/02 B01D69/08 C02F1/20 C02F1/44 (Advanced/Invention)

CPC: C02F1/20 B01D61/04 B01D2311/2653 C02F1/441 B01D61/025 B01D2311/04 B01D19/0031 B01D63/025 B01D63/027 B01D2313/20 B01D2313/44 B01D2311/13 B01D2313/10 B01D2313/13

European class: B01D19/00F B01D63/02F B01D63/02J L01D313/20 L01D313/44

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Abstract:
Source: US2011036240A In accordance with at least selected embodiments of the present invention, an improved liquid degassing membrane contactor or module includes a high pressure housing and at least one degassing cartridge therein. It may be preferred that the high pressure housing is a standard, ASME certified, reverse osmosis (RO) or water purification pressure housing or vessel (made of, for example, polypropylene, polycarbonate, stainless steel, corrosion resistant filament wound fiberglass reinforced epoxy tubing, with pressure ratings of, for example, 150, 250, 300, 400, or 600 psi, and with, for example 4 or 6 ports, and an end cap at each end) and that the degassing cartridge is a self−contained, hollow−fiber membrane cartridge adapted to fit in the RO high pressure housing.

0) US2005159739A – BRUSH ELECTRODE AND METHOD FOR ABLATION

77) Family number: 32089007 (US2005159739A) © PatBase

Title: BRUSH ELECTRODE AND METHOD FOR ABLATION

Priority:

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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: ST JUDE MEDICAL ATRIAL FIBRILLATION DIVISION INC

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Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SPRUSON AND FERGUSON; BLAKE CASSELS AND GRAYDON LLP; KRAMER BARSKE SCHMIDTCHEN PATENTANWAELTE PARTG MBB; KRAMER BARSKE SCHMIDTCHEN; KRAMER – BARSKE – SCHMIDTCHEN; REINHOLD COHN AND PARTNERS; HEIMBECHER AND ASSOCIATES LLC; ST JUDE MEDICAL ATRIAL FIBRILLATION DIVISION; SJM/AFD – TRENNER; SJM AFD TRENNER; SJM/AFD–WILEY; SJM AFD WILEY; HEIMBECHER AND ASSOC LLC; WILEY REIN LLP; TRENNER LAW FIRM LLC; BERNS JOHN M; HEIMBECHER REED R

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 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 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

International class (IPC 8–9): A61B A61B18/12 A61B18/14 A61B18/18 A61B5/00 A61B5/04 A61B5/103 A61B5/117 (Advanced/Invention);
A61B18/12 A61B18/14 A61B18/18 A61B5/04 A61B5/103 A61B5/117 (Core/Invention);
A61B (Subclass/Invention)

International class (IPC 1–7): A61B18/14 A61N1/04

CPC: A61B18/1402 A61B2018/1472 A61B18/16 A61B5/4848 A61B2018/0066 A61B2018/00577 A61B2018/00839 A61B2090/065 A61B2017/00867 C08L2201/12 A61B18/14 A61B2018/143 A61B5/036 A61B5/061 A61B5/6885 A61B2018/00351 A61B18/1492

European class: A61B18/14 A61B18/14B A61B18/14V A61B5/03H A61B5/06C A61B5/68D5 K61B17/00S12 K61B18/00F6A K61B18/14C12B K61B18/14L K61B18/14V K61B18/16 K61B19/46H2 M08L201/12

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Abstract:
Source: US2005159739A A brush electrode and a method for using the brush electrode for tissue ablation are disclosed. The brush electrode comprises a plurality of flexible filaments or bristles for applying ablative energy (e.g., RF energy) to target tissue during the formation of spot or continuous linear lesions. Interstitial spaces are defined among the filaments of the brush electrode, and the interstitial spaces are adapted to direct conductive or nonconductive fluid, when present, toward the distal ends of the brush filaments. The brush electrode facilitates electrode−tissue contact in target tissue having flat or contoured surfaces. The flexible filaments may be selectively trimmed to give a desired tip configuration or a desired standoff distance between the tissue and the conductive filaments in the brush electrode. Also, the filaments may be grouped into clusters. A shielded−tip brush electrode, including a flexible boot, is also disclosed.

0) US2003171744A – INTRADISCAL LESIONING DEVICE

78) Family number: 30065778 (US2003171744A) © PatBase

Title: INTRADISCAL LESIONING DEVICE

Priority:

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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: AVENT INC

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Assignee(s): AVENT INC ALPHARETTA ; MORGAN STANLEY SENIOR FUNDING INC ; KIMBERLY CLARK WORLDWIDE INC ; BAYLIS MEDICAL COMPANY INC ; E WATCH INC ; KIMBERLEY CLARK WORLDWIDE INC

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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 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 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

International class (IPC 8–9): A61B10/00 A61B10/02 A61B10/04 A61B17/32 A61B17/3205 A61B17/58 A61B17/94 A61B18/00 A61B18/04 A61B18/12 A61B18/14 A61B18/18 A61B19/00 A61B5/00 A61B6/00 A61F7/00 A61F7/12 A61H15/00 A61M25/095 A61M25/098 A61M37/00 A61M5/00 A61M5/46 A61N1/00 A61N1/04 A61N1/06 A61N1/34 A61N1/40 (Advanced/Invention); A61B17/00 A61B18/00 A61B18/14 A61B18/20 A61B19/00 A61N1/34 A61N1/40 (Advanced/Non–invention); A61B18/00 A61B18/12 A61B18/14 A61B18/18 A61B19/00 A61B5/00 A61B6/00 A61F7/00 A61F7/12 A61H15/00 A61N1/00 A61N1/04 A61N1/06 A61N1/32 A61N1/40 (Core/Invention); A61B17/00 A61B18/00 A61B18/20 A61B19/00 A61N1/32 A61N1/40 (Core/Non–invention)

International class (IPC 1–7): A61B18/14 A61B18/18 A61F7/00 A61F7/12 A61N1/06 A61N1/34

CPC: A61B2018/00642 A61B2018/00821 A61N1/36014 A61B2018/1472 A61B18/1206 A61B2018/00011 A61B2018/00601 A61B2018/00702 A61B6/506 A61N1/08 A61B2018/1475 A61B2018/00339 A61B2018/00744 A61B2018/00839 A61B2018/143 A61B2018/1467 A61B90/39 A61B2090/3966 A61B90/06 A61B2090/032 A61B2090/065 A61B18/1477 A61B2017/00084 A61N1/06 A61N1/36017 A61N1/36021 A61N1/40 A61B2018/00083 A61B2018/00196 A61B2018/00434 A61B2018/00791 A61B2018/1497 A61B2218/002 A61B2218/007 A61B17/320758 A61B17/320016 A61B17/32002 A61B2017/00261 A61B2017/00685 A61B2017/320775 A61B2018/0044 A61B2018/00875 A61B2018/00815 A61B18/1482 A61B18/14 A61B18/203 A61B2018/00023 A61B2018/00452 A61B2018/00458 A61B18/18 A61B18/148 A61B2018/00797 A61B2090/064

European class: A61B17/3207R A61B17/32E A61B18/12G A61B18/14 A61B18/14N A61B18/14P A61B18/14R A61N1/06 A61N1/08 A61N1/40 K61B17/00C1T K61B17/00E1D K61B17/00Q2 K61B17/3207R4 K61B17/32E2 K61B18/00A2 K61B18/00A2C K61B18/00B12C K61B18/00B2G4 K61B18/00F7 K61B18/00F7A K61B18/00F8 K61B18/00F8A K61B18/00G4 K61B18/00H10A K61B18/00H12B K61B18/00H12B5 K61B18/00H12R K61B18/00H2 K61B18/12G K61B18/14H K61B18/14L K61B18/14M K61B18/14Y K61B18/20H K61B19/30D K61B19/46 K61B19/46H K61B19/46H2 K61B19/54 K61B19/54P K61B218/00D2 K61B218/00D4 K61N1/36E K61N1/36E2 K61N1/36E4 K61N1/40

US class: 1/1 128/898 128/898S 600/300 600/300P 600/424 600/424P 600/431 600/549 600/562 600/564 600/567 604/22 604/272 604/272S 604/506 606/170 606/180 606/180P 606/20 606/20S 606/21 606/21S 606/22 606/23 606/23S 606/24 606/31 606/32 606/32P 606/33 606/33S 606/34 606/41 606/41P 606/41S 606/42 606/43 606/44 606/45 606/45S 606/47 606/49 606/49S 606/93 607/101 607/101P 607/105 607/105P 607/105S 607/113 607/113S 607/116 607/116P 607/116S 607/117 607/117P 607/17 607/17P 607/46 607/96 607/96P 607/99 607/99P 607/99S

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DE102005007769 A1

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Forward Citations: WO17049288, WO17039570, WO16156482, WO16118752, WO16032931, WO16022789, WO15112810, WO14144797, WO14130031, WO14100194, WO14070664, WO13147990, WO13138718, WO13044378, WO12088602, WO12088601, WO12088600, WO11134080, WO11057157, WO10031064, WO09141624, WO09109215, WO09073223, WO08118777, WO07110299, WO07087404, WO07064453, WO06096978, WO06021095, USRE46356, USD707838, US9668811, US9668775, US9668654, US9662158, US9662157, US9662128, US9655670, US9649156, US9649148, US9649116, US9642665, US9636173, US9636165, US9636164, US9622783, US9622706, US9616219, US9615875, US9612105, US9610396, US9610117, US9604059, US9603663, US9603610, US9597495, US9597142, US9596993, US9592388, US9592386, US9592092, US9579150, US9579030, US9572975, US9566115, US9561068, US9561067, US9561066, US9561063, US9554909, US9554855, US9539381, US9526556, US9526507, US9522037, US9522036, US9522032, US9517103, US9517047, US9511174, US9510910, US9510905, US9510901, US9510872, US9510848, US9510847, US9504516, US9504496, US9504481, US9498286, US9498271, US9492216, US9492201, US9486355, US9486279, US9486275, US9486269, US9486264, US9486243, US9486143, US9480842, US9478940, US9474906, US9474573, US9474564, US9468488, US9468487, US9463062, US9452008, US9445861, US9433760, US9433458, US9433457, US9427285, US9421109, US9421064, US9421057, US9420955, US9415235, US9413896, US9409019, US9408661, US9403013, US9402684, US9402643, US9402607, US9402602, US9402560, US9393047, US9393031, US9387327, US9383263, US9381045, US9375323, US9375278, US9370664, US9367965, US9364284, US9364281, US9360630, US9358374, US9358365, US9357977, US9345537, US9339293, US9333360, US9333359, US9333358, US9333357, US9333090, US9327127, US9327126, US9327125, US9327121, US9327100, US9326751, US9324141, US9314301, US9308123, US9307926, US9301803, US9301723, US9301687, US9297845, US9295839, US9295487, US9292918, US9289270, US9289265, US9286673, US9283388, US9283387, US9283031, US9278215, US9277955, US9271790, US9271785, US9265969, US9265868, US9265522, US9259589, US9259241, US9248293, US9248278, US9241763, US9241760, US9220561, US9220558, US9218664, US9218663, US9216053, US9216041, US9216039, US9211150, US9204889, US9198766, US9198723, US9192790, US9192435, US9192372, US9186211, US9186210, US9186209, US9186200, US9180298, US9179966, US9174050, US9173700, US9173696, US9173678, US9173676, US9168367, US9168091, US9168089, US9162046, US9161814, US9161809, US9161801, US9155589, US9149331, US9138288, US9138287, US9138165, US9125671, US9125667, US9125666, US9119650, US9119632, US9119628, US9119624, US9119600, US9114248, US9114025, US9113974, US9113972, US9113944, US9113912, US9113900, US9113888, US9109946, US9108052, US9107693, US9107691, US9095442, US9095359, US9089350, US9084633, US9084609, US9079000, US9078637, US9072902, US9072896, US9072886, US9072543, US9060761, US9056016, US9055974, US9050139, US9050106, US9044321, US9044245, US9039743, US9039701, US9037259, US9037250, US9033974, US9028485, US9028477, US9028473, US9028472, US9028391, US9023038, US9023034, US9020592, US9020591, US9017407, US9017325, US9017319, US9014802, US9011421, US9005224, US9005100, US9002460, US8995731, US8992535, US8992523, US8992522, US8992413,

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Abstract:
Source: US2003171744A An intradiscal device for treatment of a patient's intervertebral disc. The device has two elongate probes for insertion to two spaced apart treatment sites of the annulus fibrosus. The distal portions of each probe have energy delivery means for delivering energy between the distal portions of the probes through the annulus fibrosus adjacent the two treatment sites. The energy is preferably electrical energy the probes may be inserted surgically through respective elongate introducer tubes.

0) US2012330314A – DEVICES AND METHODS FOR TREATING BONE TISSUE

79) Family number: 50916342 (US2012330314A) © PatBase

Title: DEVICES AND METHODS FOR TREATING BONE TISSUE

Priority: US20100390812P 20101007 US20100411554P 20101109 US20110500929P 20110624 US20120530415 20120622 US20110878081 20111007 US20110882672 20111109 WO2011US55207 20111007 WO2011US59916 20111109 US20140461032 20140815

Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: BENVENUE MEDICAL INC

Assignee(s):(std)**:** BENVENUE MEDICAL INC ; CONNOLLY RYAN ; CONNOLLY RYAN J ; EMERY JEFFREY L ; SCHALLER LAURENT ; MCGRATH TIMOTHY J ; NEEDLEMAN DAVID S ; LEE JAMES K

Assignee(s): CRG SERVICING LLC ADMINISTRATIVE AGENT AS

Inventor(s):(std)**:** CONNOLLY RYAN J ; EMERY JEFFREY L ; LEE JAMES K ; MCGRATH TIMOTHY J ; NEEDLEMAN DAVID S ; SCHALLER LAURENT ; CONNOLLY RYAN

Agent(s): GEARY STEPHEN; COOK ALEX LTD; FREUND JOSEPH R ET AL; MCFARRON GARY W ET AL; RAYA PAUL M 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 QA RO RS RU RW 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

International class (IPC 8–9): A61B17/00 A61B17/16 A61B17/70 A61B17/88 A61M25/14 A61M5/31 (Advanced/Invention); A61B17/00 (Advanced/Non–invention)

CPC: A61B17/8816 A61B17/8811 A61B17/8819 A61F2/44 A61F2/4611 A61F2002/30484 A61F2002/4415 A61B17/1642 A61B17/7097 A61B2017/00867 A61B17/16 A61B17/1671 A61B17/7094 A61B17/8852

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Abstract:
Source: US2012330314A The present disclosure relates to devices and methods for creating channels within bone. One method for treating bone generally includes traversing an elongated member through cancellous bone of a vertebral body along a first generally non−linear path and then retracting the elongated member, thereby leaving a generally non−linear channel. The elongated member then is traversed through the cancellous bone along a second generally non−linear path, which second path does not completely coincide with the first path and then retracted along the second generally nonlinear path, thereby leaving a second generally non−linear channel. Optionally, bone filler material is deployed into the channels.

80) Family number: 29787079 (US2004146650A) © PatBase

Title: EFAB METHODS AND APPARATUS INCLUDING SPRAY METAL OR POWDER COATING PROCESSES

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Agent(s): MICROFABRICA INC ATT DENNIS R SMALLEY; DENNIS R SMALLEY MICROFABRICA INC; DENNIS R; SMALLEY DENNIS R

International class (IPC 8–9): A61B10/00 A61B17/00 A61B17/04 A61B17/14 A61B17/29 A61B17/32 B01J19/08 B05D1/32 B05D1/36 B05D5/00 B23K31/02 B23K35/12 B29B13/00 B29C33/40 B29C45/14 B29C65/00 B41C3/02 B81B3/00 B81C1/00 C23C28/00 C23C4/02 C25D1/00 C25D1/08 C25D1/10 C25D17/06 C25D5/00 C25D5/02 C25D5/10 C25D5/48 C25D5/52 G01K1/08 G01P1/02 G01P15/00 G01P15/08 G01P15/10 G01P15/125 G01R1/067 G01R3/00 G01R31/02 G01R31/305 H01J3/14 H01L21/288 H01L21/44 H01L21/768 H01P1/202 H01P11/00 H01P3/00 H01P3/06 H01P5/18 H01R12/00 H01R13/187 H01R13/62

H01R24/58 H01R9/00 H05K7/02 H05K7/20 (Advanced/Invention);
C25D1/00 G01R3/00 H05K3/46 (Advanced/Non–invention);
A61B10/00 A61B17/00 A61B17/04 A61B17/14 A61B17/28 A61B17/32 B01J19/08 B23K35/02 B29C65/00 B81C1/00 C23C4/02 C25D1/00 C25D5/00 C25D5/02 C25D5/10 G01K1/08 G01P15/00 G01P15/08 G01P15/125 G01R1/067 G01R31/02 H01J3/00 H01R12/00 H01R9/00 (Core/Invention);
C25D1/00 (Core/Non–invention)

International class (IPC 1–7): B05D1/36 B05D3/10 C25D5/02 G01R1/06 G01R1/067 H01L21/70 H01L49/00

CPC: A61B10/0233 A61B10/0283 A61B10/06 A61B2017/32004 C23C28/021 C23C28/023 C23C28/028 B81C99/0095 C23C28/048 C23C28/322 C23C28/34 C23C28/345 C23C28/36 B81C1/00246 B81C2203/0735 C23C28/00 A61B10/0266 A61B10/04 A61B17/320016 A61B17/320783 A61B2010/0225 A61B2017/00243 A61B2017/320064 A61B17/0401 A61B17/0469 A61B17/0482 A61B17/0487 A61B2017/00526 A61B2017/0462 A61B2017/0488 A61B2017/0496 A61B2017/06052 A61B2017/06176 C25D1/12 G01R1/07307 H01L24/11 H01L24/12 H01L24/16 H01L24/81 H01L24/95 H01L2221/68313 H01L2221/68354 H01L2221/68363 H01L2224/05568 H01L2224/10126 H01L2224/1147 H01L2224/11831 H01L2224/1184 H01L2224/1191 H01L2224/13017 H01L2224/81001 H01L2224/81054 H01L2224/81136 H01L2224/8121 H01L2224/81815 H01L2924/00013 H01L2924/01004 H01L2924/01005 H01L2924/01006 H01L2924/01013 H01L2924/01015 H01L2924/0102 H01L2924/01022 H01L2924/01024 H01L2924/01027 H01L2924/01029 H01L2924/01033 H01L2924/01045 H01L2924/01047 H01L2924/01049 H01L2924/0105 H01L2924/01073 H01L2924/01074 H01L2924/01075 H01L2924/01078 H01L2924/01079 H01L2924/01082 H01L2924/01322 H01L2924/01327 H01L2924/014 H01L2924/09701 H01L2924/14 H01L2924/19041 H01L2924/19042 H01L2924/19043 H01L2924/30107 H01L2924/3011 H01L2924/3025 H01L2924/10253 G06F17/5072 C23C4/02 C25D1/00 A61B2017/00345 C25D5/02 B81C1/00293 B81C1/00333 B81C2203/0145 C25D1/10 C25D7/123 G01R1/06738 G01R1/06755 H01L2224/1403 G01R1/06716 G01R1/06722 G01R1/06711 G01R1/06727 G01R1/0675 G01R1/07314 G01R1/07357 G01R31/2886 H01L2924/1461 Y10T29/49147 Y10T29/49204 Y10T29/49222 H01L2224/8181 H01L2924/3651 G01R31/02 H01L2924/0002 H01L2224/0401 H01L2924/15747 C23C4/01 H01L2224/13018 B81C1/0038 C23C18/1605 C23C18/1651 H01L21/2885 H01L21/76885 H01L2224/131 A61B17/149 C25D1/003 B81C1/0019 B81C1/00126 B81C2201/0181 B81C2201/0188 B81C2201/019 Y10T156/10 B81C99/0085 B81C2201/0107 B81C2201/0109 B81C2201/0197 B81C3/002 B81B2201/042 B81C3/008 B81C2203/051 G01P1/023 G01P15/0802 G01P15/125 H01P1/202 H01P3/06 H01P5/183 H01P11/00 H01P11/005 H01P11/007 H05K3/4647 B23K35/0222 H01L21/6835 G01R3/00 G01R1/06744 B33Y80/00 C25D5/022 C25D1/08 C25D5/10 H01R13/187 H01L24/72 G01R1/0483 G01R1/07342 G01R1/06733 Y10T29/49002 Y10T29/49016 Y10T29/49018 H01L2224/13076 H01L2924/3841 B33Y50/00 B33Y50/02 C25D5/00 C23C26/00 B33Y10/00 B33Y70/00

European class: A61B10/02P6 A61B10/04 A61B10/06 A61B17/04A A61B17/04G A61B17/04K A61B17/3207S A61B17/32E A61K31/00 A61K31/66 A61K38/17 B23K35/02D B81C1/00C12F B81C1/00C14C10 B81C1/00C14Z B81C1/00C2Z B81C1/00C4Z B81C1/00D99 B81C1/00F2Z B81C3/00D B81C3/00Z B81C99/00R10 B81C99/00R4 C23C26/00 C23C28/00 C23C4/00B C23C4/02 C25D1/00 C25D1/08 C25D1/10 C25D11/02 C25D17/00 C25D17/14 C25D5/02 C25D5/02B C25D5/10 C25D5/34 C25D5/38 C25D5/50 C25D7/00 C25D7/12 G01N33/50D2 G01N33/50D2B G01N33/50D2E G01N33/50D2F14 G01N33/50D2F4 G01P1/02B G01P15/08A G01P15/125 G01R1/04S3U G01R1/067C G01R1/067C2 G01R1/067C2C G01R1/067C3 G01R1/067C3A G01R1/067C3B G01R1/067C3C G01R1/067C4 G01R1/073B4 G01R1/073B8 G01R3/00 G01R31/28G5 H01L21/288E H01L21/683T H01L21/768C6 H01L24/11 H01L24/12 H01L24/15 H01L24/16 H01L24/81 H01L24/95 H01P1/202 H01P11/00 H01P11/00B3 H01P11/00C H01P3/06 H01P5/18C H01R13/187 H01R24/58 K61B10/02M K61B10/02P K61B10/02P8 K61B17/00E1C K61B17/00E4 K61B17/00M K61B17/04A40P2 K61B17/04E K61B17/04K5 K61B17/04T K61B17/06B K61B17/06S4 K61B17/14 K61B17/32E6 K61B17/32T K61K39/505 L81B201/04M L81C201/01B1S10 L81C201/01B1S2 L81C201/01F10 L81C201/01F4 L81C201/01F7Z L81C201/01F8 L81C203/01H L81C203/05M L81C203/07M8 M07K215/00 M25D1/00 S01R1/067C2C S01R1/067C3 S01R1/067C3B S01R1/073B S01R1/073B2 S01R3/00 T01L21/60C4F14 T01L21/60C4F4 T01L221/683T18 T01L221/683T24 T01L221/683T4 T01L224/05568 T01L224/10126 T01L224/11470 T01L224/11831 T01L224/11840 T01L224/11910 T01L224/13011 T01L224/13017 T01L224/13099 T01L224/81001 T01L224/81054 T01L224/81136 T01L224/81210 T01L224/81801 T01L224/81815 T01L24/81 T01L924/01004 T01L924/01013 T01L924/01015 T01L924/01020 T01L924/01022 T01L924/01027 T01L924/01029 T01L924/01073 T01L924/01074 T01L924/01075 T01L924/01078 T01L924/01079 T01L924/01322 T01L924/01327 T01L924/14000 T01L924/19041 T01L924/19042 T01L924/19043 T01L924/30107 T01L924/30110 T01L924/30250 T01R107/00 T05K3/46C2

US class:

156/249 156/249S 174/261 204/224R 204/227S 204/297.05 205/118 205/122 205/134S 205/135 205/145 205/170 205/181 205/182 205/183 205/183S 205/220 205/221 205/222 205/223 205/67 205/67P 205/70 205/70P 205/80 205/80P 216/39 228/180.22 228/215 228/245 228/245P 250/397 250/397P 257/E21.159 257/E21.523 264/219 264/221 264/259 264/271.1 264/299 264/313 264/317 264/318 264/328.1 29/842 29/874 29/884 324/751 324/754 324/755.01 324/755.010P 324/755.07 324/755.070P 324/755.11 324/755.110P 324/756.02 324/756.03 324/756.030P 324/758.04 324/758.040S 324/761 324/762 324/762.03 324/762.05 333/160 333/206 333/206P 333/208 333/243S 333/262S 343/792.500S 361/689 361/689P 361/807 361/809 361/809S 382/141 382/144 382/145 382/147 382/151 424/141.100P 427/258 427/264 427/265 427/270 427/271 427/272 427/282 427/307 427/402 427/446 427/457 427/457S 438/652 438/652P 438/670 438/689 439/81 514/17.700S 514/9.600S 600/562 600/564 600/564P 600/567 600/567S 600/568 600/570 606/1 606/150 606/150P 606/151 606/151S 606/167 606/167P 606/176 606/176S 606/180 606/1P 606/1S 606/207 606/207S 606/222 606/222S 73/514.29 73/514.32 977/732 977/732S

Classification Explorer

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Abstract:
Source: US2004146650A Various embodiments of the invention present techniques for forming structures via a combined electrochemical fabrication process and a thermal spraying process or powder deposition processes. In a first set of embodiments, selective deposition occurs via masking processes (e.g. a contact masking process or adhered mask process) and thermal spraying or powder deposition is used in blanket deposition processes to fill in voids left by selective deposition processes. In a second set of embodiments, after selective deposition of a first material, a second material is blanket deposited to fill in the voids, the two depositions are planarized to a common level and then a portion of the first or second materials is removed (e.g. by etching) and a third material is sprayed into the voids left by the etching operation. In both embodiments the resulting depositions are planarized to a desired layer thickness in preparation for adding additional layers.

0) US2002019661A – BIODEGRADABLE STENT

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Title: Biodegradable stent

Priority: EP20000311543 20001221 US19990470619 19991222 US20010933096 20010820 US20020059637 20020129 US20010933059 20010820 US20020256942 20020927 US20060644576 20061222 US20030602338 20030624

Family:

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Agent(s): FISHER ADRIAN JOHN; PHILIP S JOHNSON JOHNSON AND JOHNSON; EMIL RICHARD

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

International class (IPC 8–9): A61F2/04 A61F2/06 A61F2/82 A61F2/84 A61F2/88 A61L31/00 A61L31/04 A61L31/06 A61L31/10 A61L31/14 A61M29/02 C08L101/16 D01F8/14 (Advanced/Invention); A61F2/02 (Advanced/Non–invention); A61F2/06 (Core/Invention)

International class (IPC 1–7): A61F2/04 A61F2/06 A61L31/00 A61L31/04 A61L31/06 A61L31/14 A61M29/02 D01F8/14

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Abstract:
Source: US2002019661A A biodegradable stent for implantation into a lumen in a human body. The stent in one embodiment is made from a biodegradable fiber having an inner core and an outer layer. The outer layer is a blend of two polymer components. The inner core has a first degradation rate, and the outer layer has a second degradation rate. The second degradation rate is slower than the first degradation rate. The fiber softens in vivo such that the stent is readily passed from the lumen as a softened fragment or filament after a pre–determined period of time through normal flow of body fluids passing through the lumen.

0) US5246371A – METHOD AND APPARATUS FOR DELIVERY OF HIGHLY FIL...

82) Family number: 8423264 (US5246371A) © PatBase

Title: METHOD AND APPARATUS FOR DELIVERY OF HIGHLY FILLED, THIXOTROPIC SEALANT TO TEETH

Priority: CA19932101137 19930722 CA19932101137 19930722 US19920939082 19920901 US19920940204 19920831 US19920940204 19920831

Family:

Publication number	Publication date	Application number	Application date
AT174493 E	19990115	AT19930306381T	19930812
AU199342051 A1	19940310	AU19930042051	19930720
AU667375 B2	19960321	AU19930042051	19930720
CA2101137 AA	19940301	CA19932101137	19930722
CA2101137 C	19960402	CA19932101137	19930722
DE69322612 D1	19990128	DE19936022612	19930812
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EP0608598 A2	19940803	EP19930306381	19930812
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JP2721786 B2	19980304	JP19930215895	19930831
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US5246371 A	19930921	US19920939082	19920901
US5269684 A	19931214	US19920940204	19920831

Probable Assignee: ULTRADENT PRODUCTS INC

Assignee(s):(std)**:** ULTRADENT PRODUCTS INC

Assignee(s): ULTRADENT PRODUCTS INC A CORP OF UT ; ULTRADENT PRODUCTS INC A CORP OF UTAH ; ULTRADENT PRODUCTS INC SOUTH JORDAN UTAH US ; URUTORADENTO PURODAKUTSU INC ; URUTORADENTO PROD INC ; FISCHER DAN E

Inventor(s):(std)**:** DAN II FUITSUSHIYAA ; FISCHER DAN E

Inventor(s): DAN E FISCHER ; DAN II FUITSUSHAA

Agent(s): GRIFFITH HACK; CASSAN MACLEAN

Designated states: AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

International class (IPC 8–9): A46B11/02 A61C19/06 A61C5/04 A61C5/06 (Advanced/Invention); A61C5/04 (Advanced/Non–invention); A61C19/00 A61C5/00 A61C5/04 (Core/Invention)

International class (IPC 1–7): A46B11/00 A46B11/00 A46B11/02 A46B3/08 A61C19/06 A61C5/00 A61C5/04 A61C5/06 A61C5/11 B05C17/00

CPC: A61C5/62 B05C17/00593 A61C3/005 B05C17/00506 B05C17/00513 B05C17/00516

European class: A61C3/00B A61C5/06A B05C17/005X L05C17/005B4 L05C17/005B4F L05C17/005B6 L05C17/005Y60

US class: 433/217.1 433/226 433/90 604/310 604/311

Classification Explorer

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Forward Citations: WO9726041, WO12044298, WO10030076, WO10030076, WO0224103, USD788907, USD786422, USD785797, USD783810, USD783809, USD782657, USD782656, USD780908, USD772397, USD772396, USD756122, USD754330, USD747464, USD740936, USD731640, USD725770, USD718855, USD717427, USD714930, USD714929, USD707350, USD694398, USD670373, USD629884, USD574952, USD565175, USD530010, USD527457, USD504948, USD496999, USD480479, USD461247, USD460822, USD456078, USD435292, USD435105, US9642677, US9622839, US9597161, US9572643, US9554976, US9427079, US9072673, US9066777, US9061096, US9050157, US8888727, US8814571, US8808317, US8808245, US8808209, US8801667, US8790035, US8641649, US8408483, US8403665, US8337473, US8113832, US8066510, US7959370, US7670141, US7537450, US7198623, US7179085, US7040893, US6913464, US6854974, US6767955, US6749356, US6612465, US6602074, US6537239, US6390817, US6384099, US6315567, US6282013, US6238120, US6202897, US6157661, US6116900, US6095813, US6083002, US6059570, US5944698, US5944527, US5816804, US5547379, US2013112720, US2013034830, US2012016319, US2011183287, US2010261138, US2010240004, US2010203467, US2010114071, US2010111591, US2009326438, US2009318875, US2009257963, US2009020440, US2007284400, US2007041776, US2006105292, US2005226819, US2005154343, US2005100390, US2005082317, US2004241614, US2004144801, US2004142301, US2004138642, US2004122377, US2004072123, US2004071638, US2004063075, US2004038174, US2003000970, FR2848858, EP1137372, EP0956084, EP0956084, DE19934235, DE102013201460, CN102892377,

Abstract:
Source: US5246371A A method and apparatus for delivery of highly filled, thixotropic resin sealant to tooth surfaces. The apparatus includes a dispenser for holding a quantity of the sealant material and a delivery tip having adjustable bristles at one end. The bristles are slidably secured in a spiral passageway formed by a helical ridge inside the delivery tip, thereby allowing the sealant material to be continuously applied without the need to stop the procedure and rewet the applicator. The applicator permits accurate control of the amount of sealant material applied to the surface. In this way, the surface receives neither an excessive nor an insufficient amount of the sealant material. Moreover, the bristles may be pushed in to permit the sealant material to be applied to a small, irregular surface, such as pits and fissures, or pulled out to permit the bristles to fan out for application to broad surface areas. Delivery of highly filled, relatively viscous, thixotropic sealant materials is made possible by providing the spiral passageway around the bristles so that the coating material does not have to flow through the bristles, and due to sheer thinning caused by forcing the thixotropic material through the spiral passageway.

0) US2012296353A – GRAFT DEVICES AND METHODS OF FABRICATION

83) Family number: 49180823 (US2012296353A) © PatBase

Title: GRAFT DEVICES AND METHODS OF FABRICATION

Priority: US20090291820P 20091231 US20100520009 20101230 WO2010US62487 20101230 US20160044369 20160216 US20120520009 20120720

Family:

Publication number	Publication date	Application number	Application date
CA2785989 AA	20120628	CA20102785989	20101230
EP2519188 A2	20121107	EP20100841716	20101230
EP2519188 A4	20170322	EP20100841716	20101230
US2012296353 AA	20121122	US20100520009	20101230
US2016157989 AA	20160609	US20160044369	20160216
US9295541 BB	20160329	US20100520009	20101230
WO11082295 A2	20110707	WO2010US62487	20101230
WO11082295 A3	20111117	WO2010US62487	20101230

Probable Assignee: NEOGRAFT TECHNOLOGIES INC

Assignee(s):(std)**:** EL KURDI MOHAMMED S ; FLAHERTY J CHRISTOPHER ; GARIBOTTO JOHN T ; SOLETTI LORENZO ; MCGRATH JON ; NEOGRAFT TECHNOLOGIES INC ; WAGNER DAVID ; NEOGRAFT TECH INC

Inventor(s):(std)**:** EL KURDI MOHAMMED S ; FLAHERTY J CHRISTOPHER ; GARIBOTTO JOHN T ; MCGRATH JON ; SOLETTI LORENZO ; WAGNER DAVID

Agent(s): RICHES MCKENZIE AND HERBERT LLP; JOHNSON YVONNE CATHERINE; WILSON SONSINI GOODRICH AND ROSATI PC; BARNES REBECCA N

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 TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9)**:** A61B17/11 A61F2/04 A61F2/06 A61F2/07 A61L27/04 A61L27/14 A61L27/16 A61L27/18 A61L27/28 A61L27/34 A61L27/36 A61L27/38 A61L27/40 A61L27/54 A61L27/56 A61L27/58 (Advanced/Invention); A61F2/04 (Advanced/Non–invention)

CPC: A61F2/06 A61F2/04 A61L27/14 A61L27/36 A61L27/58 A61L2430/36 A61L27/16 A61L27/18 A61L27/34 A61L27/54 A61L27/047 A61L27/56 A61L2300/412 A61F2/064 A61F2210/0076 A61F2250/0039

European class: A61F2/06 A61L27/14 A61L27/36 A61L27/58 K61F2/04 K61F2/06C K61L430/36

US class: 1/1 606/153 623/1.38 623/1.39 623/1.44

Classification Explorer

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US2004171545 AA, US2004146546 AA, US2004094873 AA, US2004073294 AA, US2004054406 AA, US2003109887 AA, US2002123786 AA, US2002042128 AA, US2002022853 AA, US2002004663 AA, KR100595487 B1, JP2006526658 T2, JP2006515186 T2, JP2004525272 T2, JP2003235880 A2, JP11076278 A2, EP0265176 A2, EP0095940 A2, CN1491728 A, CA2677033 AA,

Forward Citations: WO16038587, WO15140251, WO15055684, WO15027087, WO13090337, WO13063190, US9445874, US9295541, US9155610, US2014188212, ITMI20120646,

Abstract:
Source: US2012296353A A graft device is provided comprising a flow conduit and a surrounding covering. The graft device is for connecting between a first body space and a second body space. In one embodiment, the flow conduit is a vein, such as a harvested saphenous vein, useful as an arterial graft, for example and without limitation, in a coronary artery bypass procedure. Also provided are methods of preparing a graft device and connecting the graft between a first body space and a second body space, such as the aorta and a location on an occluded coronary artery, distal to the occlusion.

0) US2009143770A – MEDICAL LUER FITTING THAT PROMOTES LIQUID MIXIN...

84) Family number: 43351059 (US2009143770A) © PatBase

Title: MEDICAL LUER FITTING THAT PROMOTES LIQUID MIXING

Priority:
US20050101439 20050408 US20050737254P 20051115 US20070679826 20070227
US20070679837 20070228 US20070679835 20070227 US20060791719P 20060412
US20070991447P 20071130 US20070991373P 20071130 US20070679839 20070228
US20070842624 20070821 US20070860544 20070925 US20070860545 20070925
US20070955636P 20070813 US20070976775P 20071001 US20070992037P 20071203
US20080325245 20081130 US20080044004P 20080410 US20080325243 20081130
US20080188205 20080808 US20080241221 20080930 US20090576121 20091008
US20090576303 20091009 US20090577153 20091010 US20090641411 20091218
US20100714100 20100226 US20100884175 20100916 US20080104193P 20081009
US20080104252P 20081009 US20080105600P 20081015 US20110193602 20110729
WO2006US60850 20061113 WO2009US37398 20090317 WO2009US37402 20090317
US20110444118P 20110217

Family:

Publication number	Publication date	Application number	Application date
US2009143770 AA	20090604	US20080325245	20081130
US2009156975 AA	20090618	US20080325243	20081130
US2012065482 AA	20120315	US20110193602	20110729

Probable Assignee: TOBLER DAVE

Assignee(s):(std)**:** ABBINK RUSSELL ; BERNARD STEVE ; BORRELLO MIKE ; GRAFE VICTOR GERALD ; HENDEE SHONN ; LANDRY DONALD W ; NOVKOV DONALD JAMES ; ROBINSON MARK RIES ; ROSS ALAN ; WELSH DAN ; VANSLYKE STEPHEN ; TOBLER DAVE ; PATTERSON WILLIAM R ; MACEMON JAMES H ; THOMPSON RICHARD P ; MCMAHON DAVE ; O MAHONY JOHN

Inventor(s):(std)**:** ABBINK RUSSELL ; BERNARD STEVE ; BORRELLO MIKE ; GRAFE VICTOR GERALD ; HENDEE SHONN ; LANDRY DONALD W ; MACEMON JAMES H ; MCMAHON DAVE ; NOVKOV DONALD JAMES ; O MAHONY JOHN ; PATTERSON WILLIAM R ; ROBINSON MARK RIES ; ROSS ALAN ; THOMPSON RICHARD P ; TOBLER DAVE ; VANSLYKE STEPHEN ; WELSH DAN

Agent(s): V GERALD GRAFE ESQ

International class (IPC 8–9): A61B5/145 A61M1/14 A61M39/10 B01D65/02 (Advanced/Invention) ; A61M1/14 A61M39/00 B01D65/00 (Core/Invention)

CPC: A61M1/3653 A61M1/30 A61M1/3656 A61M39/10 A61B5/157 A61M2206/16 A61B5/150213 A61B5/150946 A61B5/150961 A61B5/0215 A61B5/14532 A61B5/14546 A61B5/14557 A61B5/1495 A61B5/15003 A61B5/150229 A61B5/150236 A61B5/150244 A61B5/150389 A61B5/150503 A61B5/150755 A61B5/150992 A61B5/153 A61B5/155 A61B5/4839 A61M2005/1588 A61M2039/0009 A61B5/150221 A61M1/303 A61M1/308

European class: A61B5/1455N10 A61B5/145G A61B5/1495 A61B5/14B8 A61B5/153 A61B5/155 A61B5/15B18B10 A61B5/15B18B2 A61B5/15B26 A61B5/15B2D A61B5/15B8F A61B5/15B8H A61B5/15B8J A61B5/15H A61B5/48J2 A61M1/36C7 A61M39/10 K61B5/0215 K61B5/145P K61B5/14B8 K61M1/30 K61M206/16 K61M39/00A K61M5/158M

US class: 210/636 210/636S 600/309 600/309P 604/4.01 604/4.010P 604/533

Classification Explorer

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US2007083091 AA, US2007082342 AA, US2007078314 AA, US2007060872 AA, US2007049809 AA, US2007043334 AA, US2007038044 AA, US2006235348 AA, US2006231424 AA, US2006229531 AA, US2006216209 AA, US2006197015 AA, US2006195058 AA, US2006195046 AA, US2006194325 AA, US2006189926 AA, US2006189863 AA, US2006189857 AA, US2006183984 AA, US2006173406 AA, US2006167381 AA, US2006129109 AA, US2006079809 AA, US2006052745 AA, US2006009727 AA, US2005230313 AA, US2005143636 AA, US2005095602 AA, US2005049473 AA, US2005038332 AA, US2005027182 AA, US2005010093 AA, US2005002018 AA, US2004030277 AA, US2003090649 AA, US2003086075 AA, US2003086074 AA, US2003086073 AA, US2002121471 AA,

Forward Citations: WO16181141, WO16032691, WO14120754, WO14078101, WO14008302, WO12058231, WO12005951, WO11025891, WO11025891, US9646375, US9604002, US9595104, US9554742, US9514322, US9504789, US9488570, US9486580, US9399098, US9366371, US9283320, US9242786, US9233204, US9164078, US8757590, US8628516, US8348844, US8323194, US8317698, US2015131093, US2014217719, US2013334420, US2013331817, US2013205407, US2013105521, US2013023792, US2011313318, US2011152642, US2011054276, US2010168535, US2010137778, US2010114002, US2010094114, US2009088615, US2009054754, US2009048535, US2009043240, US2007225675, GB2506147, GB2497896, EP2901926, CN102687004, AU2012264624,

Abstract:
Source: US2009143770A A medical luer connection improves liquid mixing thereby reducing areas of low or stagnant flow within the plenum chamber formed between the male and female luer connectors. Stagnation or low flow areas in the plenum can be reduced by imparting a non−axial flow component to the fluid flow as it passes through the plenum. Improvement of the cleaning effectiveness of the luer connection reduces the amount of flushing fluid needed to clean the connection, reduces the residual blood matter at a fixed volume of fluid relative to a standard luer connection, or combinations of the above.

0) GB745914A – IMPROVEMENTS IN OR RELATING TO HEAT EXCHANGERS

85) Family number: 20122969 (GB745914A) © PatBase

Title: Improvements in or relating to heat exchangers

Priority: GB19530002503 19530128

Family:

Publication number	Publication date	Application number	Application date
GB745914 A	19560307	GB19530002503	19530128

Probable Assignee: WILLIAM HELMORE

Assignee(s):(std)**:** WILLIAM HELMORE

International class (IPC 8–9): F28D9/04 (Advanced/Invention); F28D9/00 (Core/Invention)

International class (IPC 1–7): F28D9/04

CPC: F28D9/04

European class: F28D9/04

Classification Explorer

Forward Citations: WO04102101, WO0020817, US7640972, US5220955, US4178991, US4089370, GB2333984, GB2278429, GB2278429, DE1152715, DE1121090,

Abstract:
Source: GB745914A 745,914. Ventilating aircraft. HELMORE, W. Feb. 26, 1954 [Jan. 28, 1953; Feb. 4, 1953], Nos. 2503/53 and 3200/53. Class 137. [Also in Groups XI and XIII] A heat–exchanger comprises at least one curved or spiral passage formed by bending sheet material, a spacing element being disposed in and extending along substantially the whole length of said passage and being so shaped as to make contact with the passage walls at a number of locations distributed over substantially the whole area thereof. The spacing element may comprise sheet material slit and corrugated or it may comprise reticulated material in the form of a corrugated grid or it may comprise a plurality of wire coils. The spacing element may alternatively comprise tubular heating or cooling means in the form of a coil or it may be an electric heater coil. Fig. 3 shows an arrangement for heating or cooling air for the interior of an aircraft in which both the air and the heating or cooling fluid flow in spiral paths defined by sheets 18, 19. The spacing elements between the plates 18, 19 are not shown. Hot oil engine exhaust gases and liquid air are mentioned as suitable heating and cooling media. The heating or cooling medium enters the heat–exchanger at 43 and is discharged at 44 whilst air to be heated or cooled enters the heat exchanger by way of an opening controlled by a valve 40 and after passing through the heat–exchanger is discharged by way of openings controlled by valves 38, 42 either through a nozzle 36 to the aircraft or back into the atmosphere. The valves 38, 40, 42 may be thermostatically controlled in accordance with the temperature in the aircraft.

86) Family number: 24043673 (US5250071A) © PatBase

Title: DETACHABLE EMBOLIC COIL ASSEMBLY USING INTERLOCKING CLASPS AND METHOD OF USE

Priority:

AU19930048577	19930913	EP19930921506	19930913	US19940361330	19941221
US19950400471	19950307	US19930049577	19930419	US19920949094	19920922
US19970949768	19971014	US19950471825	19950607	US19970782584	19970113
WO1993US08581	19930913	US19970888495	19970707	US19950539781	19951005

Family:

Publication number	Publication date	Application number	Application date
AT167068 E	19980615	AT19930921506T	19930913
AT203384 E	20010815	AT19930120309T	19930913
AU199348577 A1	19940412	AU19930048577	19930913
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AU669928 B2	19960627	AU19930048577	19930913
AU684419 B2	19971211	AU19960050869	19960424
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CA2119772 C	19961112	CA19932119772	19930913
DE0617632 T1	19951130	DE19930921506T	19930913
DE69319088 D1	19980716	DE19936019088	19930913
DE69319088 T2	19981008	DE19936019088T	19930913
DE69330502 D1	20010830	DE19936030502	19930913
DE69330502 T2	20020328	DE19936030502T	19930913
DE9320840 U1	19950302	DE19930020840U	19930913
DK0617632 T3	19981012	DK19930921506T	19930913
EP0617632 A1	19941005	EP19930921506	19930913
EP0617632 A4	19950215	EP19930921506	19930913
EP0617632 B1	19980610	EP19930921506	19930913
EP0829236 A1	19980318	EP19970120309	19930913
EP0829236 B1	20010725	EP19970120309	19930913
ES2074972 T1	19951001	ES19930921506T	19930913
ES2074972 T3	19980916	ES19930921506T	19930913
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FI942276 A	19940516	FI19940002276	19940516
FI942276 A0	19940516	FI19940002276	19940516
IL106946 A0	19931228	IL19930106946	19930908
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JP2584956 B2	19970226	JP19940508206T	19930913
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NO941363 A0	19940415	NO19940001363	19940415
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US5800453 A	19980901	US19950400471	19950307
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USRE37117 E	20010327	US19970888495	19970707
WO9406503 A1	19940331	WO1993US08581	19930913

Probable Assignee: TARGET THERAPEUTICS INC

Assignee(s):(std)**:** TARGET THERAPEUTICS ; TARGET THERAPEUTICS INC

Assignee(s): TARGET THERAPEUTICS INC FREMONT CALIF US ; TARGET THERAPEUTICS A DELAWARE CORP ; GIA SON ; PALERMO THOMAS J ; TAAGETSUTO SERAPYUUTEIKUSU INC

Inventor(s):(std)**:** GIA SON ; PALERMO THOMAS ; PALERMO THOMAS J ; SON GIA ; THOMAS J PALERMO

Inventor(s): PARERUMO TOOMASU JEI ; GIA SON SAN JOSE CA 95111 US

Agent(s): FB RICE; BORDEN LADNER GERVAIS LLP

Designated states: AT AU BE CA CH CZ DE DK ES FI FR GB GR HU IE IT JP KR LI LU MC NL NO NZ PT SE SK

International class (IPC 8–9): A45D42/24 A61B17/00 A61B17/03 A61B17/12 A61F2/01 A61F2/82 A61M25/14 A61M29/00 G02B26/08 G02B7/18 G02B7/198 (Advanced/Invention); A61B17/00 A61B17/03 A61F2/82 A61M25/14 (Advanced/Non–invention); A61B17/12 A61F2/01 (Core/Invention)

International class (IPC 1–7): A61B17/00 A61B17/03 A61B17/12 A61F2/06 A61F2/06 A61M25/00 A61M25/01 A61M25/14 A61M29/00

CPC: A61F2002/016 A61F2230/0091 A61B17/12163 A61B2017/12068 A45D42/24 A61B17/12022 A61B17/12145 A61B2017/1205 A61F2/01 A61F2002/011 A61M25/0905 G02B26/0825 A61B90/39

European class: A45D42/24 A61B17/12P A61B17/12P7C1 A61B17/12P7S A61F2/01 A61M25/01B4 A61M25/09D G02B26/08M2 K61B17/12P2 K61B17/12P2D6 K61B19/54 K61F2/01B

US class: 128/898 128/899 604/57 606/1 606/108 606/151 606/191 606/194 606/198 606/200 636/108 636/194 636/198 636/200

Classification Explorer

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Forward Citations: WO9942038, WO9940852, WO9909894, WO9908607, WO9907294, WO9907293, WO9833454, WO9829042, WO9817183, WO9708997, WO9622736, WO9600104, WO9525480, WO9524158, WO17070171, WO17062572, WO16161344, WO16154633, WO16126966, WO14158790, WO14158790, WO14138580, WO14138580, WO14043235, WO12092351, WO11119872, WO08109394, WO08109394, WO08085606, WO08027913, WO07121405, WO07070797, WO07047111, WO07041407, WO06138536, WO05051176, WO04087018, WO03099142, WO0230485, WO0213707, WO0213706, WO02096273, WO02053043, WO02053042, WO02053041, WO0202018, WO0158365, WO0154761, WO0149355, WO0103607, WO0053105, WO0051500, WO0025680, WO0013593, USRE43311, USRE43030, USRE42758, USRE42756, USRE42662, USRE42625, USRE38972, US9662487, US9636118, US9636117, US9636115, US9629739, US9629636, US9622754, US9622753, US9615912, US9615831, US9610088, US9597224, US9597207, US9597186, US9585669, US9585651, US9579104, US9561125, US9561097, US9561096, US9561037, US9545513, US9533116, US9526616, US9526505, US9510837, US9510835, US9510829, US9510817, US9486223, US9474608, US9468442, US9463105, US9456847, US9439661, US9439583, US9415195, US9408733, US9408695, US9393405, US9393022, US9375333, US9358140, US9358021, US9345461, US9339631, US9339382, US9339275, US9326774, US9320600, US9314326, US9314248, US9308374, US9307996, US9295571, US9295569, US9289536, US9289215, US9282971, US9278022, US9277924, US9265637, US9265514, US9265504, US9259229, US9254134, US9242070, US9220873, US9198665, US9179922, US9179918, US9173774, US9149358, US9149278, US9119625, US9113999, US9095342, US9089332, US9072911, US9060886, US9060858, US9060857, US9055948, US9050095, US9050094, US9044246, US9023094, US9011480, US9005235,

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Abstract:
Source: US5250071A This invention is a surgical instrument and specifically is a device for delivering an embolic coil to a selected site within the vasculature of a human body via use of a catheter. In particular, the device uses embolic coils having interlocking clasps on the coils which are secured to each other by a control wire within the catheter. Retraction of the control wire into the catheter body uncouples the distal coil.

0) US5601537A – CATHETER SYSTEM

87) Family number: 10233509 (US5601537A) © PatBase

Title: CATHETER SYSTEM

Priority: US19950436194 19950605 US19950463194 19950605 US19960012276 19960226 US19960585040 19960111 US19960012276P 19960226 WO1996US09274 19960606

Family:

Publication number	Publication date	Application number	Application date
AU199662581 A1	19970801	AU19960062581	19960606
DE69635169 D1	20051013	DE19966035169	19960606
DE69635169 T2	20060713	DE19966035169T	19960606
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EP0957966 B1	20050907	EP19960921334	19960606
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Probable Assignee: SPIRUS MEDICAL INC

Assignee(s):(std)**:** FRASSICA JAMES J ; JAMES J FRASSICA

Assignee(s): SPIRUS MEDICAL INC ; AILINGER ROBERT E ; ESSEX TECHNOLOGY INC

Inventor(s):(std)**:** FRASSICA JAMES J

Designated states: AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IT JP KE KG KP KR KZ LK LR LS LT LU LV MC MD MG ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SI SK SN SZ TD TG TJ TT UA UG US UZ VN

International class (IPC 8–9): A61F2/958 A61M25/00 (Advanced/Invention); A61J15/00 (Advanced/Non–invention); A61M25/00 (Core/Invention); A61J15/00 (Core/Non–invention)

International class (IPC 1–7): A61M25/00 A61M5/00

CPC: A61M2025/1052 A61M2025/1075 A61M2210/1042 A61M2210/1085 A61J15/0046 A61J15/0007 A61J15/0049 A61M25/007 A61M25/10 A61M25/0068 A61J15/00 A61M25/0017 A61M25/0021 A61M25/0043 A61M2025/1086 A61J15/0088

European class: A61M25/00R A61M25/00S A61M25/00T10 A61M25/10 K61J15/00 K61M210/10H K61M210/10K4 K61M25/00T10C K61M25/10Z14 K61M25/10Z4

US class: 411/411 604/164.1 604/264 604/280 604/349 604/50 604/500 604/517 604/523 604/528 604/95

Classification Explorer

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Forward Citations: WO9909911, WO9909911, WO9833469, WO15164455, WO11140118, WO10135176, WO09143069, WO09067702, WO08067557, WO08067557, WO08005496, WO08005496, WO07086073, WO07001543, WO06042157, USD784523, USD686323, US9636477, US9522217, US9480494, US9452278, US9409002, US9375233, US9289201, US9220395, US9055995, US9039677, US9033149, US9011314, US8998882, US8951232, US8929988, US8911467, US8906051, US8870755, US8851077, US8808221, US8777841, US8764631, US8747300, US8740774, US8632513, US8602574, US8597314, US8574221, US8574220, US8506647, US8491472, US8443808, US8435229, US8419680, US8414561, US8414477, US8403943, US8377041, US8366674, US8343040, US8328877, US8328792, US8317771, US8317678, US8282623, US8235942, US8128592, US8109872, US8088060, US8079978, US8066689, US8025648, US8007458, US7909799, US7806888,

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Abstract:
Source: US5601537A Apparatus and methodology for applying catheters, dilators and occluders to mammalian genito−urinary and gastro−intestinal passages, using rotational manipulation of threaded or helically−formed catheters and threaded dilators and occluders. Threaded or helical catheters are inserted into the opening of the selected passage far enough to engage a thread segment, the other end of the catheter is then manually rotated to draw the catheter into the passage. Threaded dilators and occluders are similarly applied.

88) Family number: 15092059 (US5769870A) © PatBase

Title: Perfusion device for maintaining blood flow in a vessel while isolating an anastomosis

Priority: CA19972197609 19970219 EP19970102785 19970220 US19990301019 19990428 US19970956164 19971022 US19970790827 19970123 US19960603415 19960220

Family:

Publication number	Publication date	Application number	Application date
AT191626 E	20000415	AT19970102785T	19970220
AU199714784 A1	19970828	AU19970014784	19970219
AU726136 B2	20001102	AU19970014784	19970219
BRPI9701033 A	19981215	BR1997PI01033	19970220
CA2197609 AA	19970820	CA19972197609	19970219
DE69701650 D1	20000518	DE19976001650	19970220
DE69701650 T2	20010111	DE19976001650T	19970220
EP0791332 A1	19970827	EP19970102785	19970220
EP0791332 B1	20000412	EP19970102785	19970220
EP0856287 A1	19980805	EP19980104953	19970220
ES2148856 T3	20001016	ES19970102785T	19970220
IL120233 A0	19970610	IL19970120233	19970217
JP10005231 A2	19980113	JP19970078779	19970220
KR19970061208 A	19970912	KR19970005160	19970220
NO970752 A	19970821	NO19970000752	19970218
NO970752 A0	19970218	NO19970000752	19970218
US5769870 A	19980623	US19960603415	19960220
US5925054 A	19990720	US19970790827	19970123
US6071297 A	20000606	US19970956164	19971022
US6214022 BA	20010410	US19990301019	19990428

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Assignee(s):(std): CARDIVASCULAR SYSTEMS ; CARDIOTHORACIC SYS INC ; CARDIOTHORACIC SYST INC ; CARDIOTHORACIC SYSTEMS INC

Assignee(s): CARDIOTHORACIC SYSTEMS LLC ; CANTU ALFREDO R ; MAQUET CARDIOVASCULAR LLC ; CARDIOVASCULAR SYSTEMS INC ; SALAHIEH AMR ; MATHENY ROBERT G ; SEPETKA IVAN ; KROLIK JEFF A ; TAYLOR CHARLES S ; GIA SON M

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Inventor(s): ALFREDO R CANTU

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; SMART AND BIGGAR

Designated states: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

International class (IPC 8–9): A61B17/00 A61B17/04 A61B17/11 A61B17/12 A61F2/06 (Advanced/Invention); A61B17/00 A61B17/04 A61B17/12 (Advanced/Non–invention)

International class (IPC 1–7): A61B17/00 A61B17/08 A61B17/11 A61F2/06 A61M1/00 A61M1/10 A61M29/00

CPC: A61B17/0469 A61B17/11 A61B17/12045 A61B17/12109 A61B17/12131 A61B17/12136 A61B17/1219 A61B2017/1135 A61B2017/12127

European class: A61B17/11 A61B17/12P1T2 A61B17/12P5B A61B17/12P7 A61B17/12P7B A61B17/12P7Z3 K61B17/04E K61B17/11P K61B17/12P6

US class: 606/108 606/153 606/191 606/192 606/194 606/198 623/1.1

Classification Explorer

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Forward Citations: WO9963895, WO9960931, WO9945852, WO9935975, WO9923955, WO9915088, WO9908603, WO16154634, WO12037558, WO10041216, WO10021779, WO08094601, WO08094601, WO06025300, WO06023331, WO06023331, WO04098419, WO0222197, WO0222197, WO02064028, USD611144, US9655605, US9649106, US9642616, US9585647, US9585646, US9579091, US9554786, US9533124, US9498196, US9486191, US9456811, US9415195, US9414824, US9414820, US9402625, US9398914, US9398907, US9393100, US9364209, US9345485, US9345461, US9339260, US9332976, US9326764, US9320522, US9314600, US9314230, US9295818, US9295469, US9289536, US9282969, US9282967, US9282965, US9271707, US9259224, US9241696, US9173644, US9168361, US9155869, US9149276, US9131938, US9113999, US9108025, US9089674, US9089311, US9060769, US9050087, US9050068, US8961446, US8956388, US8945199, US8932326, US8926682, US8926656, US8926633, US8920442, US8906084, US8905937, US8893947, US8870941, US8858594, US8858576, US8845518, US8821564, US8821534, US8821438, US8820602, US8808310, US8801768, US8784447, US8771296, US8758400, US8758399, US8758398, US8758396, US8747449, US8740833, US8728119, US8709020, US8708996, US8690910, US8690816, US8672953, US8668704, US8663274, US8657852, US8617190, US8603136, US8603116, US8597325, US8590760, US8585836, US8579932, US8568427, US8556930, US8540669, US8529587, US8529583, US8518060, US8518057, US8486108, US8486092, US8480694, US8480693, US8480650, US8469995, US8454650, US8398676, US8398656, US8394114, US8366651, US8353921, US8353092, US8348962, US8323312, US8313497, US8303624, US8298251, US8257390, US8251948, US8251943, US8246636, US8236026, US8226681, US8211131, US8211124, US8202294, US8202293, US8202283, US8197510, US8192459, US8182497, US8177836, US8157836, US8128644, US8118856, US8118822, US8105345, US8080023, US8062251, US8048108, US8034093, US8029519, US8007512, US8002730, US7976556, US7963973, US7947062, US7938840, US7935129, US7931669, US7918873, US7914544, US7905900, US7901428, US7896892, US7892255, US7892247, US7892246, US7887563, US7887555, US7879071, US7879047, US7871417, US7867249, US7857828, US7854810, US7851036, US7850797, US7850709, US7842068, US7841502, US7828817, US7819895, US7819841, US7806910, US7806904, US7803395, US7803142, US7780687, US7763077, US7763041, US7763040, US7762980, US7744611, US7736308, US7722643, US7666220, US7651510, US7645259, US7632290, US7588551, US7547313, US7544203, US7537599, US7468030, US7351247, US7235049, US7131959, US7124570, US7122044, US7118546, US7112211, US7105002, US7105002, US7087066, US7056326, US6984238, US6966887, US6962596, US6953464, US6899718, US6878129, US6863684, US6814743, US6796989, US6793661, US6712831, US6711436, US6695859, US6676695, US6669713, US6626914, US6626872, US6613081, US6585762, US6508777, US6482214, US6471633, US6461294, US6458079, US6447533, US6414018, US6402767, US6395015, US6330884, US6254563, US6254535, US6241741, US6231562, US6221079, US6165196, US6152874, US6139517, US6127410, US6113609, US6113588, US6110188, US6101412, US6095997, US6087394, US6071235, US6060454, US6043273, US6033362, US5968090, US2015173734, US2015157836, US2015031959, US2014303657, US2014163675, US2012172928, US2011224769, US2010286717, US2010114021, US2010076484, US2010076365, US2010042039, US2010030242, US2009318949, US2009318855, US2009299387, US2009182227, US2009069822, US2009036820, US2009036817, US2008294084, US2008221552, US2008208118, US2008082036, US2008039923, US2007276414, US2007276413, US2007260262, US2007249987, US2007162106, US2007068695, US2007043385, US2006258970, US2006224100, US2006161044, US2006079915, US2005267407, US2005251164, US2005234482, US2005228407, US2005171563, US2005149077, US2005131432, US2005049540, US2004220598, US2004200876, US2004199188, US2004167551, US2004166268, US2004147867, US2004147866, US2004102797, US2004097986, US2004073282, US2004073240, US2004049213, US2004034387, US2004019315, US2004015225, US2003181856, US2003153933, US2003130671, US2003120291, US2003120205, US2003100920, US2003088256, US2003083547, US2003013941, US2003004462, US2001001827, US2001001826, JP5374720, JP2010516427, JP2003038497, GB2421185, GB2421185, EP2356946, EP1281357, EP1192906, EP1079741, EP1024753, EP1022033, EP1002498, EP0895753, AU2008211107,

Abstract:
Source: US5769870A A plurality of embodiments of a distal perfusion device are disclosed, which device facilitates anastomosis constructions by maintaining a dry anastomosis site while simultaneously maintaining blood flow distally in the blood vessel to prevent ischemia and reduce overall patient trauma. The perfusion device is configured for installation into a blood vessel such as a left anterior descending coronary artery through an incision therein, to which is to be grafted a distal end of a blood vessel such as an internal mammary artery. The device includes a central member of selected configuration and material, terminating at either end thereof in respective selectively tapered end members. A lumen extending through the central member and end members, and selected perforations in the end members, maintain blood flow through the perfusion device. A selected portion or portions of the device's outer circumference fit snugly within the artery in the regions beyond and/or at the anastomosis site, to maintain the latter free of blood. Several methods for deploying and removing respective embodiments of the device also are illustrated.

89) Family number: 13452469 (US5679249A) © PatBase

Title: DYNAMIC FILTER SYSTEM

Priority: GB19940012686 19921222 GB19940012686 19921222 US19940272218 19940708 US19930080215 19930623 US19910812123 19911224 US19960744476 19961107 US19970806117 19970225 WO1992US11148 19921222 WO1994US07269 19940623 WO1995US09457 19950707

Family:

Publication number	Publication date	Application number	Application date
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WO9500231 A1	19950105	WO1994US07269	19940623	
WO9601676 A1	19960125	WO1995US09457	19950707	

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Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; MARKS AND CLERK

Designated states: AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CS CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IS IT JP KE KG KP KR KZ LI LK LR LT LU LV MC MD MG ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SN SZ TD TG TJ TM TT UA UG UZ VN

International class (IPC 8–9): B01D29/05 B01D29/075 B01D29/39 B01D29/62 B01D29/70 B01D33/15 B01D33/21 B01D33/46 B01D33/58 B01D33/80 B01D63/08 B01D63/16 B01D65/00 B01D65/08 (Advanced/Invention); B01D29/39 B01D29/62 B01D29/78 (Advanced/Non–invention); B01D29/01 B01D29/39 B01D29/62 B01D33/15 B01D63/08 B01D63/16 B01D65/00 (Core/Invention)

International class (IPC 1–7): B01D29/05 B01D29/075 B01D29/39 B01D29/62 B01D29/64 B01D29/70 B01D29/94 B01D33/15 B01D33/17 B01D33/19 B01D33/46 B01D33/58 B01D33/80 B01D63/08 B01D63/16 B01D65/00 B01D65/08

CPC: B01D2321/08 B01D2321/164 B01D2321/2008 B01D2321/2016 B01D2315/02 B01D65/08 B01D29/055 B01D33/21 B01D63/084 B01D63/16 B01D65/00 B01D2201/44 B01D2321/2033

European class: B01D29/05R B01D33/21 B01D63/08D10 B01D63/16 B01D65/00 B01D65/08 L01D201/44 L01D321/08 L01D321/16D L01D321/20B L01D321/20B10 L01D321/20D

US class:

210/321.63 210/321.75 210/321.84 210/334 210/344 210/346 210/414 210/415 210/450 210/456 210/489 210/492

Classification Explorer

Cited documents: WO9500231, WO9312859 A1, WO8905181, WO8810144, WO8606006, US700268 A, US5679249 A, US5474675 A, US5415781 A, US5298016 A, US5275725 A, US5254250 A, US5215663 A, US5200076 A, US5192434 A, US5143630 A, US5143616 A, US5114588 A, US5084220 A, US5034135 A, US5019255 A, US5000848 A, US4968600 A, US4950403 A, US4943374 A, US4940385 A, US4935002 A, US4925557 A, US4919806 A, US4911847 A, US4906379 A, US4876013 A, US4867878 A, US4844794 A, US4816150 A, US4790942 A, US4781835 A, US4781828 A, US4773819 A, US4768920 A, US4740312 A, US4717485 A, US4708797 A, US4698156 A, US4696433 A, US4695380 A, US4666603 A, US4655920 A, US4631130 A, US4576715 A, US4553387 A, US4543181 A, US4514139 A, US4501663 A, US4487689 A, US4430901 A, US4404106 A, US4376049 A, US4340480 A, US4335994 A, US4330405 A, US4216094 A, US4156647 A, US4155290 A, US4132649 A, US4093552 A, US4066546 A, US4025425 A, US3997447 A, US3989629 A, US3984317 A, US3980562 A, US3948778 A, US3884813 A, US3884805 A, US3879286 A, US38257 A, US3766059 A, US3764526 A, US3669879 A, US3648844 A, US3623610 A, US3606016 A, US3502575 A, US3477575 A, US3472765 A, US347275 A, US3437208 A, US3365065 A, US3200105 A, US3064817 A, US2936075 A, US2885082 A, US2399710 A, US2207618 A, US1673572 A, US1249835 A, SU591203, RU591203, JP63252519, JP63252518, JP63205106, JP63205106, JP62279807, JP62269708, JP62213811, JP62213810, JP62213809, JP62213808, JP62151906, JP62151904, JP62148302, JP62148301, JP62097607, JP62097605, JP62097604, JP62014831, JP59028121, JP59002812, JP58045766, JP523194, JP5228348, JP4281829, JP4122634, JP341786, JP341785, JP311428, JP2187102, JP2187101, JP2142606, JP214260, JP192210, JP1297104, JP1270916, JP1139114, IE63688, GBL22560, GB22560, GB2201355, GB2173421, GB191122560 A, GB1525071, GB1282629, GB1057015, FR2578440 A1, FR2386330, FR2203664 A1, FR2021564 A1, EP0588902 A1, EP0580591 A1, EP0560281, EP0529682 A2, EP0443469 A2, EP0370118, EP0338433 A2, EP0324865 B1, EP0324865, EP0319564 A1, EP0304833 A2, EP0226659 A1, EP0220324 B1, EP0066198 A2, EP0045033 A1, EP0044524 A2, DE8912282 U, DE8912282, DE4015187, DE2446157 A1, DE241471 A, DE2251171 A1, CA1323845 A1, CA1198062 A1, AU66111 A1, AU258313 A1, AT258313 B,

Forward Citations: WO9926717, WO9809720, WO9732652, WO9732649, WO9713571, WO9702087, WO9601676, WO14023762, WO13148479, WO11137954, WO11110284, WO09082615, WO09076980, WO09075440, WO09039861, WO07144343, WO07128475, WO04047942, WO04047942, WO03068271, WO03068271, WO03008077, WO03008077, WO0249740, WO0168514, WO0168514, US9636638, US9611556, US9463421, US9095823, US8771499, US8636828, US8608814, US8545707, US8314191, US8268136, US8262752, US8257466, US8231752, US8157900, US8114183, US8114182, US8057575, US8048315, US8043512, US8021446, US7993051, US7972420, US7959714, US7950254, US7939051, US7926666, US7848475, US7828869, US7819955, US7789941, US7776213, US7757866, US7736596, US7674425, US7651660, US7638051, US7601302, US7537696, US7531086, US7465335, US7410531, US7341609, US7316780, US7285212, US7281410, US7267236, US7243721, US7232524, US7195663, US7089681, US7052530, US6969343, US6962654, US6960294, US6953497, US6916425, US6875351, US6824593, US6811713, US6811709, US6811699, US6811690, US6808693, US6805806, US6783741, US6723156, US6719832, US6719831, US6669843, US6632270, US6616734, US6613231, US6569227, US6562111, US6558545, US6537352, US6478969, US6416666, US6322698, US6309544, US6209727, US6193883, US6168724, US6117322, US6106713, US6027656, US5993674, US5989432, US5944998, US5925247, US5798023, US5707517, US3221960, US2017028355, US2015190758, US2013256210, US2013043180, US2011137003, US2011094382, US2011011785, US2010206819, US2010018924, US2009263309, US2009255877, US2009200176, US2009159523, US2009159461, US2008223779, US2008134577, US2008006571, US2007158260, US2007131235, US2007107399, US2007084783, US2007062887, US2007062886, US2006273008, US2006237358, US2006102545, US2006037747, US2005252255, US2005188616, US2005173336, US2005163955, US2005084393, US2005023199, US2004226888, US2004195166, US2004140273, US2004099616, US2004099615, US2004099612, US2004084385, US2004065013, US2004038014, US2004038013, US2004031742, US2003173288, US2003173276, US2003173275, US2003168211, US2003146146, US2003089664, US2002096648, US2002079274, US2002050477, US2001045061, KR100945838, JP2015525666, JP2015512332, JP2009000684, JP2002273728, ITTV20130032, FR2920099, FR2827188, FR2799391, FR2771305, EP2695666, EP2394733, EP2042229, EP1878487, EP1854530, EP1775004, EP1775004, EP1688349, EP1516657, EP1057512, EP0880392, EP0815927, EP0705132, EP0705132, DE4319813, DE102011002635, DE102005056586, DE10104812, CN104826375, CN104519983, CN104245098, CN103861344, CN103835058, CN102844088, CN102844088, AU747489,

AU741391, AU703488, AU2008340363,

Abstract:
Source: US5679249A A dynamic filter system comprises a dynamic filter assembly including one or more filter elements and one or more members disposed within a housing. The filter elements and the members are interleaved and arranged to rotate with respect to one another.

0) US2014200599A – ADAPTIVE ROTARY CATHETER FOR OPENING OBSTRUCTED...

90) Family number: 53082549 (US2014200599A) © PatBase

Title: ADAPTIVE ROTARY CATHETER FOR OPENING OBSTRUCTED BODILY VESSELS

Priority: US20110575289P 20110817 US20120238983 20120814 US20120686864P 20120413 WO2012US50759 20120814

Family:

Publication number	Publication date	Application number	Application date
EP2744424 A1	20140625	EP20120823939	20120814
EP2744424 A4	20150422	EP20120823939	20120814
US2014200599 AA	20140717	US20120238983	20120814
WO13025697 A1	20130221	WO2012US50759	20120814

Probable Assignee: SHIBER SAMUEL

Assignee(s):(std)**:** SHIBER SAMUEL

Inventor(s):(std)**:** SHIBER SAMUEL

Agent(s): RICHARDS JOHN; STREIT RICHARD J

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 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 QA RO RS RU RW 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

International class (IPC 8–9)**:** A61B17/20 A61B17/3207 A61M1/00 (Advanced/Invention); A61B17/22 (Advanced/Non–invention)

CPC: A61M1/008 A61B17/320758 A61B2017/22048 A61B2017/22068 A61B2017/22071 A61B2017/320766 A61B2090/08021

US class: 606/159

Classification Explorer

Cited documents: WO9925412 A2, US8795306 BB, US8236016 BB, US8137369 BB, US7316697 BB, US6572630 BA, US6482215 BA, US6440148 BA, US6416523 BA, US6143009 A, US6129734 A, US5681336 A, US5334211 A, US5306244 A, US5135531 A, US5042984 A, US5030213 A, US5007896 A, US5002553 A, US4990134 A, US4894051 A, US4886490 A, US4883458 A, US4842579 A, US4819634 A, US4732154 A, US4091880 A, US2015164541 AA, US2015094733 AA, US2013103046 AA, US2012172905 AA, US2011152907 AA, US2010292720 AA, US2010121361 AA, US2009149877 AA, US2009069829 AA, US2008306498 AA, US2008004646 AA, US2005119615 AA, US2004006358 AA, US2003028206 AA, US2002188276 AA, US2002165567 AA, US2002151918 AA, US2002029056 AA, US2002007190 AA, GB2426456 A1,

Forward Citations: US9585667, US9532784, US2015094749, US2012130415,

Abstract:
Source: US2014200599A A rotary catheter for opening partially and totally obstructed bodily vessels of varying diameter (e.g., blood vessel) which comprises a motor–driven flexible hollow shaft rotatably disposed in a flexible tube, an aspiration channel defined between the flexible tube and the hollow shaft, a tip affixed to a distal end of the hollow shaft having a rounded distal end being rotatable and slideable over the guidewire, the tip having sides, a base and a crown that is offset away from a longitudinal axis of the hollow shaft further than the base and a distance between the sides being smaller than a distance between the crown and the base leaving open passages along the tip, the guidewire can be withdrawn proximally to allow the rotating crown to displace the distal end of the tip away from said wall of said vessel to tunnel through a total obstruction.

0) US2002151979A – DEVICES AND METHOD FOR NUCLEUS PULPOSUS AUGMENT...

91) Family number: 31880925 (US2002151979A) © PatBase

Title: DEVICES AND METHOD FOR NUCLEUS PULPOSUS AUGMENTATION AND RETENTION

Priority:

JP20030504824 20020613 US19990149490P 19990818 US19990161085P 19991025
US20010020507 20011211 US20000696636 20001025 US20000642450 20000818
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Family:

Publication number	Publication date	Application number	Application date
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AU2002315215 AA	20030102	AU20020315215	20020613
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Probable Assignee: INTRINSIC THERAPEUTICS INC

Assignee(s):(std)**:** INTRINSIC ORTHOPEDICS INC ; INTRINSIC THERAPEUTICS INC ; LAMBRECHT GREG ; KAVANAUGH SEAN ; INTRINSIC ORTHOPEDICS ; INTRINSIC THERAPEUTICS ; LAMBRECBT GREG H ; MED GENESIS INC ; MEDGENESIS INC ; LAMBRECHT GREGORY H ; REDMOND RUSSEL J ; VIDAL CLAUDE A ; LAMBRECHT GREGORY ; STONEBROOK SCOTT ; PARTIN JASON ; LAMBRECHT GREG H ; BANKS THOMAS ; BOYAJIAN THOMAS ; EINHORN JACOB ; INT ORTHOPEDIC CO LTD ; LAMBRECHT GREGG H ; MOORE ROBERT KEVIN ; TARAPATA CHRIS ; MOORE ROBERT K

Assignee(s): REDMOND RUSSELL J ; ORTHOPEDIC CO INT ; LAMBRECHT GREGORY E ; INTERNAL ORTHOPEDIC CO ; CRG SERVICING LLC ; ORTHOPEDIC CO LTD INT ; INTERNAL ORTHOPEDIC CO LTD

Inventor(s):(std)**:** CLAUDE A VIDAL ; GREG H LAMBRECHT ; KEVIN MOORE ROBERT ; LAMBRECHT GREG H ; LAMBRECHT GREGG H ; LAMBRECHT GREGORY E ; MOORE ROBERT K ; RUSSEL J REDMOND ; VIDAL CLAUDE A ; VIDAL A ; STONEBROOK SCOTT ; REDMOND RUSSEL J ; REDMOND J ; PARTIN JASON ; MOORE KEVIN ; LAMBRECHT H ; LAMBRECHT GREOGORY H ; LAMBRECHT GREGORY H ; LAMBRECHT GREGORY ; REDMOND RUSSELL J ; MOORE ROBERT KEVIN ; MOORE ROBERT ; MOORE R K ; LAMBRECHT GREG ; LAMBRECHT G H ; LAMBRECBT GREG H ; KAVANAUGH SEAN ; EDMOND RUSSEL J ; BANKS THOMAS ; TARAPATA CHRIS ; ROBERT KEVIN MOORE ; EINHORN JACOB ; BOYAJIAN THOMAS ; BANKS T

Inventor(s): T BANKS ; RK MOORE ; GH LAMBRECHT ; LAMBRECBT GREG ; G H LAMBRECHT ; R K MOORE ; THOMAS BANKS ; VIDAL CLAUDE ; REDMOND RUSSEL ; GREGORY H LAMBRECHT ; JACOB EINHORN

Agent(s): FB RICE; FETHERSTONHAUGH AND CO; HAINES MILES JOHN LS; S HOROWITZ AND CO; TACHIBANA KENJI; MATSUMOTO KIMIO; SAEGUSA EIJI; MASHIMO SHINICHI; TACHI YASUMITSU; KNOBBE MARTENS OLSON AND BEAR LLP; KAVANAUGH ESQ SEAN; SEAN; KAVANAUGH SEAN; S; S KAVANAUGH INTRINSIC; S KAVANAUGH

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

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International class (IPC 8–9): A61B17/00 A61B17/04 A61B17/068 A61B17/22 A61B17/32 A61B17/3207 A61B17/54 A61B17/56 A61B17/58 A61B17/60 A61B17/66 A61B17/70 A61B17/84 A61B17/88 A61B19/00 A61B5/055 A61B5/103 A61B5/107 A61B8/08 A61F2/00 A61F2/02 A61F2/06 A61F2/08 A61F2/28 A61F2/30 A61F2/44 A61F2/46 A61K31/56 A61K31/573 A61K38/22 A61K45/00 A61K47/42 A61K9/00 A61L27/00 A61M31/00 A61M37/00 A61M5/00 B29C31/00 G01R33/28 (Advanced/Invention);
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A61B17/04 A61B17/068 A61B17/22 A61B17/32 A61B17/70 A61B5/107 A61F2/06 A61F2/08 A61F2/44 A61F2/46 (Core/Invention);
A61B17/00 A61B17/064 A61B17/32 A61B17/34 A61B17/88 A61B19/00 A61F2/00 A61F2/02 A61F2/28 A61F2/30 A61L27/00 (Core/Non–invention);
A61F (Subclass/Invention)

International class (IPC 1–7): A61B17/00 A61B17/56 A61B17/58 A61B17/66 A61B17/88 A61B18/18 A61B19/00 A61B5/055 A61B5/107 A61B8/08 A61F0/00 A61F2/00 A61F2/08 A61F2/244 A61F2/28 A61F2/30 A61F2/44 A61F2/46 A61L27/00 A61M1/00 A61M37/00 B29C31/00 G01R33/28

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Abstract:
Source: US2002151979A Systems for minimally invasive disc augmentation include an anulus augmentation component and a nucleus augmentation component. Both are suited for minimally invasive deployment. The nucleus augmentation component restores disc height and/or replaces missing nucleus pulposus. The anulus augmentation component shields weakened regions of the anulus fibrosis and/or resists escape of natural nucleus pulposus and/or the nucleus augmentation component. Methods and deployment devices are also disclosed.

0) US2002020663A – FILTER ASSEMBLY, FILTER ELEMENT, AND METHOD OF ...

92) Family number: 19842526 (US2002020663A) © PatBase

Title: FILTER ASSEMBLY, FILTER ELEMENT, AND METHOD OF UTILIZING THE SAME

Priority:

US20000225895P	20000817	US20010931510	20010816	US20070986667P	20071109
US20070942525	20071119	US20060531986	20060914	US20040863798	20040608
US20080270282	20081113	US20080327307	20081203	US20100718435	20100305
US20110502549P	20110629	US20120536527	20120628	US20120568809	20120807
US20080208869	20080911	US20080186421	20080805	WO2001US25731	20010816
WO2008US12882	20081118	US20120677966	20121115	US20150722333	20150527

Family:

Publication number	Publication date	Application number	Application date
AU2001285003 AA	20020225	AU20010285003	20010816
CA2419926 AA	20030217	CA20012419926	20010816
CA2419926 C	20091110	CA20012419926	20010816
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US2002020663 AA	20020221	US20010931510	20010816
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US2008060985 AA	20080313	US20070942525	20071119
US2008290018 AA	20081127	US20080186421	20080805
US2009001027 AA	20090101	US20080208869	20080911
US2009056542 AA	20090305	US20080270282	20081113
US2009077893 AA	20090326	US20080327307	20081203
US2010155324 AA	20100624	US20100718435	20100305
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US2012315193 AA	20121213	US20120568809	20120807
US2013075320 AA	20130328	US20120677966	20121115
US2015263367 AA	20150917	US20150722333	20150527
US6761270 BB	20040713	US20010931510	20010816
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US7993519 BB	20110809	US20100718435	20100305
US8147590 BB	20120403	US20080270282	20081113
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WO09067195 A4	20091015	WO2008US12882	20081118
WO10065640 A1	20100610	WO2009US66415	20091202

Probable Assignee: CAREW BAYNE

Assignee(s):(std)**:** CAREW E B ; CAREW E BAYNE ; CAREW BAYNE

Assignee(s): CAREW E ; E BAYNE CAREW

Inventor(s):(std): CAREW E ; CAREW E BAYNE ; CAREW E B ; CAREW BAYNE

Inventor(s): E BAYNE CAREW

Agent(s): GOWLING LAFLEUR HENDERSON LLP; GOWLING WLG CANADA LLP; HOWARD AND HOWARD ATTORNEYS PC; HOWARD AND HOWARD ATTORNEYS PLLC; WARNER NORCROSS AND JUDD LLP; DEGRAZIA GREGORY D ET AL; DEGRAZIA GERGORY 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 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 YU ZA ZM ZW

International class (IPC 8–9): A01K63/04 B01D24/00 B01D29/00 B01D29/13 B01D29/15 B01D29/23 B01D29/33 B01D29/48 B01D29/60 B01D29/64 B01D29/66 B01D29/68 B01D29/82 B01D29/90 B01D3/14 B01D33/06 B01D33/073 B01D33/27 B01D33/35 B01D33/76 B01D33/80 B01D35/30 B01D36/00 B01D37/02 B01D37/04 B01D53/02 B01D53/08 B01F15/02 B01F15/06 B01F7/00 B01J10/00 B01J19/18 B01J8/00 C02F1/32 C10J3/48 G05D7/00 H01M8/06 (Advanced/Invention);
C02F1/00 C02F1/38 C02F1/40 (Advanced/Non–invention);
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International class (IPC 1–7): B01D27/00 B01D29/15 B01D29/23 B01D29/48 B01D29/66 B01D29/90 B01D37/02

CPC: B01D29/90 B01D36/00 C10G2300/4093 B01J23/75 B01J29/40 B01J35/023 C10G2400/26 C02F1/28 C02F1/325 C02F1/444 C02F1/4691 C02F9/00 C02F2101/30 C02F2201/003 C02F2201/3223 C02F2201/3228 C02F2303/16 B01D3/141 C02F1/001 C02F1/385 C02F1/40 B01D29/23 B01D29/58 B01D29/606 B01D29/668 B01D29/902 B01D29/925 B01D29/906 B01D29/908 C02F1/32 H01M8/0643 A01K63/045 B01D29/15 B01D29/48 B01D36/003 B01D37/025 B01D2201/0415 B01D2201/184 B01D46/403 B01D53/08 B01D2251/404 B01D2251/602 B01D2253/112 B01D2256/16 B01D2256/20 B01D2257/302 B01D2257/404 B01D2257/504 B01D2259/40086 B01D2259/4009 B01D2275/302 C10K1/024 Y02C10/08 Y02P20/152

European class: A01K63/04B B01D29/15 B01D29/48 B01D36/00L B01D37/02B B01D46/40H B01D53/08 C02F1/32D C10K1/02D L01D201/04C L01D201/18F L01D251/404 L01D251/602 L01D253/112 L01D256/16 L01D256/20 L01D257/302 L01D257/404 L01D257/504 L01D259/40T20 L01D259/40T30G L01D275/30C L01J23/75 L01J29/40 L01J35/02B M02F1/28 M02F1/44D M02F1/469B M02F101/30 M02F201/00D2 M02F201/322E M02F201/322R M02F303/16 M02F9/00 M10G400/26 Y02C10/08

US class: 1/1 204/155 204/156 204/157.15 204/157.22 204/164 210/148 210/167.21 210/167.210P 210/179 210/192 210/209 210/243 210/252 210/276 210/280 210/295 210/298 210/304 210/319 210/321.78 210/321.87 210/351 210/352 210/355 210/359 210/360.1 210/360.100S 210/370 210/373 210/374 210/374S 210/405 210/405S 210/413 210/414 210/415 210/416.1 210/416.100S 210/435 210/493.4 210/493.400P 210/493.5 210/493.500S 210/497.01 210/497.1 210/497.100S 210/512.3 210/650 210/670 210/741 210/748 210/748.01 210/748.1 210/748.13 210/748.130P 210/749 210/762 210/763 210/767 210/768 210/771 210/787 210/791 210/793 366/165.3 366/165.300S 366/293 366/293S 422/109 422/186 422/186.06 422/186.3 422/187 422/22 422/24 422/619 429/416 48/198.3 48/198.7 48/61 48/62.00RP 48/62R 502/12 502/20 502/45 502/46 502/47 502/51 502/514 95/107 95/108 95/108P 96/134 96/134S

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Forward Citations: WO14174309, WO14059539, WO13029122, WO13029122, WO13000807, WO11071873, WO11071873, WO10127774, WO10065640, WO09154850, US9649633, US9574469, US9551349, US9545591, US9470251, US9441464, US9320818, US9303493, US9269976, US9194265, US9194050, US9131667, US9095856, US9068510, US9024493, US8994237, US8991165, US8974567, US8940068, US8893689, US8876389, US8865004, US8851756, US8821362, US8807097, US8794222, US8746464, US8733726, US8714132, US8673159, US8663483, US8657935, US8641793, US8636835, US8596292, US8434998, US8430433, US8414779, US8414692, US8408879, US8329037, US8302779, US8267437, US8262753, US8231336, US8210804, US8147590, US8132559, US8087901, US8079805, US8079622, US8075668, US8062400, US8061972, US8061737, US7993519, US7938874, US7513925, US7188731, US2016209253, US2015144577, US2014326668, US2014034568, US2013126641, US2012273345, US2011180052, US2011180051, US2011132192, US2011114037, US2011097216, US2010269867, US2010264329, US2010258508, US2010180854, US2010155324, US2010140263, US2010139776, US2009304496, US2009294351, US2009285727, US2009077893, US2009056542, US2009001027, US2008262619, US2007163451, US2006196156, US2004074849, JP2014217821, GB2513368, FR2973257, EP2906322, EP2719798, EP2386341, CN105452174, CN103081851, CN103081851, CN102989597, CN102421497,

Abstract:
Source: US2002020663A A filter assembly and a method of filtering a fluid using the filter assembly are disclosed. The filter assembly includes wave coils arranged axially to define a filter element. The filter element includes bottom and top ends and an inner cavity. The filter assembly also includes a base plate that engages one, or both, ends to support the wave coils. The fluid flows toward the base plate, and the base plate diverts the fluid inside or outside the inner cavity. The wave coils include crests and troughs engaging one another on adjacent wave coils to define filtration apertures. The diverted fluid is filtered through the filtration apertures such that a filtrate of the fluid passes through the inside or outside of the inner cavity, and a retentate of the fluid is retained on the other of the inside or outside of the inner cavity relative to the filtrate.

0) US2012209190A – ADHESIVE AND PERIPHERAL SYSTEMS AND METHODS FOR...

93) Family number: 65600552 (US2012209190A) © PatBase

Title: ADHESIVE AND PERIPHERAL SYSTEMS AND METHODS FOR MEDICAL DEVICES

Priority: US20060772313P 20060209 US20060789243P 20060405 US20070704897 20070209 US20070704886 20070209 US20070704896 20070209 US20060793188P 20060419 US20090395185 20090227 US20070704899 20070209 US20070889007P 20070209

Family:

Publication number	Publication date	Application number	Application date
US2012209190 AA	20120816	US20090395185	20090227
US9339603 BB	20160517	US20090395185	20090227

Probable Assignee: DEKA PRODUCTS LP

Assignee(s):(std)**:** DEKA PRODUCTS LP ; GRAY LARRY B ; YEATON ERIC

Assignee(s): DEKA PRODUCTS PARTNERSHIP LTD

Inventor(s):(std)**:** GRAY LARRY B ; YEATON ERIC

Agent(s): MICHELLE SAQUET

International class (IPC 8–9)**:** A61B5/00 A61M5/142 A61M5/145 A61M5/158 A61M5/162 A61M5/168 A61M5/172 A61M5/50 B23P11/00 B67D7/08 B67D7/14 G05B23/02 G05D7/06 G08C17/02 H04B7/26 (Advanced/Invention)

CPC: A61M5/158 A61B5/0024 A61B5/6833 A61M5/142 A61M5/1452 A61M5/14224 A61M5/14244 A61M5/14248 A61M5/14586 A61M5/168 A61M5/16809 A61M5/16831 A61M5/172 A61M5/1723 A61M5/5086 G05B23/02 G05D7/0647 G05D7/0676 G08C17/02 H04B7/2609 A61B2560/0412 A61M5/16886 A61M2005/14268 A61M2005/16863 A61M2205/0266 A61M2205/0294 A61M2205/04 A61M2205/18 A61M2205/3331 A61M2205/3375 A61M2205/3546 A61M2205/3576 A61M2205/502 A61M2205/52 A61M2205/8237 A61M2206/22 A61M2207/00 A61M2209/045 Y10T29/494 Y10T29/49236 Y10T29/49412 Y10T29/49826

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Forward Citations: US9636455, US8881774, US2011186177,

Abstract:
Source: US2012209190A A repeater system may control a pump by using a repeater and a user interface. An adhesive patch system may be used for affixing a pump or other object to a human body. Such an adhesive patch system may include two sets of adhesive members, each member including an adhesive material on at least one side so as to attach to the body. The members of the first set are spaced to allow the members of the second set to attach to the body in spaces provided between the members of the first set, and the members of the second set are spaced to allow members of the first set to detach from the body without detaching the members of the second set. Also, fill stations and base stations are provided for personal pump systems.

0) US2002056330A – LUBRICANT SUPPLY DEVICE AND ROLLING MEMBER SCRE...

94) Family number: 28197068 (US2002056330A) © PatBase

Title: LUBRICANT SUPPLY DEVICE AND ROLLING MEMBER SCREW APPARATUS USING SAME

Priority: JP19880077794 20000315 JP20000077794 20000315 JP20007794 20000315

Family:

Publication number	Publication date	Application number	Application date
DE10110699 A1	20010920	DE20011010699	20010306
DE10110699 B4	20120606	DE20011010699	20010306
DE10110699 B9	20121108	DE20011010699	20010306
GB200103157 A0	20010328	GB20010003157	20010208
GB2360341 A1	20010919	GB20010003157	20010208
GB2360341 B2	20041013	GB20010003157	20010208
JP2001263448 A2	20010926	JP20000077794	20000315
JP3454502 B2	20031006	JP20000077794	20000315
US2002056330 AA	20020516	US20010783974	20010216
US6619148 BB	20030916	US20010783974	20010216

Probable Assignee: THK CO LTD

Assignee(s):(std)**:** THK CO LTD

Assignee(s): THK CO

Inventor(s):(std)**:** NISHIDE TETSUHIRO

Inventor(s): TETSUHIRO NISHIDE

International class (IPC 8–9)**:** F16C33/66 F16H25/22 F16H25/24 F16H57/04 F16N13/20 (Advanced/Invention); F16H25/22 F16H25/24 (Advanced/Non–invention); F16C33/66 F16H25/24 F16H57/04 (Core/Invention); F16H25/22 F16H25/24 (Core/Non–invention)

International class (IPC 1–7)**:** F16C17/00 F16C33/66 F16H1/24 F16H25/20 F16H25/22 F16H25/24 F16H27/02 F16H29/02 F16H29/20 F16H3/06 F16H55/02 F16H57/04 F16N13/20

CPC: Y10T74/18744 Y10T74/19753 F16H57/0497 F16H25/2204 F16H25/2418

European class: F16H57/04Z8 R16H25/22B R16H25/24C

US class: 184/5 74/424.83 74/424.830S 74/89.44 74/89.440P

Classification Explorer

Cited documents: US6364058 BA, US6216821 BA, US6190046 BA, US6125968 A, US5906136 A, US5050707 A, US3499624 A, US3132719 A, US1937949 A, JP2000249209 A2, JP11050922 A2, EP1031767 A1, EP0967414 A2, EP0950465 A2, EP0905395 A1, EP0902201 A2, DE19833228 A1, DE19754454 A1,

Forward Citations: WO06114268, WO04020872, US9568077, US9506544, US9400047, US8931358, US8893570, US8801288, US8701834, US8302499, US8162106, US8082814, US8025128, US7857100, US7788987, US7000493, US6732600, US2015007677, US2014224051, US2014013887, US2013255419, US2013160586, US2012266703, US2012201483, US2012042741, US2011146430, US2011113905, US2010301565, US2010295249, US2010242651, US2009308690, US2008196523, US2007227281, US2007186707, US2006169075, US2006096397, US2006088430, US2004123691, US2004029740, US2003145670, US2002117015, TWI529325, TWI476332, TWI411736, TWI385326, JP6110465, JP5599845, JP4346577, JP2017096471, JP2014109327, JP2014020400, JP2010531955, JP2009127647, JP2006292122, EP1553328, DE102010045318,

Abstract:
Source: US2002056330A A lubricant supply device comprises application members, a casing and control members. The casing forms a lubricant storage member, which is divided into compartments arranged in the circumferential direction of the lubricant storage member. The number of the compartments is equal to or larger than the number of thread grooves of the screw shaft. The application members are placed in correspondence to

the compartments. Each of the application members has the single tongue portion.

0) US2004143240A – ADJUSTABLE LENGTH CATHETER

95) Family number: 60513321 (US2004143240A) © PatBase

Title: ADJUSTABLE LENGTH CATHETER

Priority:

EP20040702581 20040115
EP20140186681 20040115
US20030346977 20030117
JP20060501012 20040115
US20030402083 20030328
US20030402083 20030328
US20090423267 20090414
US20060500836 20060807
US20040895817 20040721
US20110186198 20110719
WO2004US01241 20040115
US20110186156 20110719
US20040868252 20040614
WO2004US01242 20040115

Family:

Publication number	Publication date	Application number	Application date
AU2004206889 AA	20040805	AU20040206889	20040115
AU2004206890 AA	20040805	AU20040206890	20040115
CA2513305 AA	20040805	CA20042513305	20040115
CA2513305 C	20080617	CA20042513305	20040115
CA2513380 AA	20040805	CA20042513380	20040115
DE602004045989 D1	20141127	DE200460045989T	20040115
DE602004048967 D1	20160512	DE200460048967T	20040115
EP1587558 A2	20051026	EP20040702581	20040115
EP1587558 A4	20080806	EP20040702581	20040115
EP1587558 B1	20141015	EP20040702581	20040115
EP1587570 A2	20051026	EP20040702579	20040115
EP1587570 A4	20080611	EP20040702579	20040115
EP2842592 A1	20150304	EP20140186681	20040115
EP2842592 B1	20160330	EP20140186681	20040115
HK1208189 A1	20160226	HK20150107142	20150727
JP2006515213 T2	20060525	JP20060501012T	20040115
JP2006515214 T2	20060525	JP20060501013T	20040115
JP2010155117 A2	20100715	JP20100074823	20100329
JP4598753 B2	20101215	JP20060501012T	20040115
JP5406094 B2	20140205	JP20100074823	20100329
US2004143240 AA	20040722	US20030346977	20030117
US2004193139 AA	20040930	US20030402083	20030328
US2005021004 AA	20050127	US20040868252	20040614
US2005059957 AA	20050317	US20040895817	20040721
US2007088323 AA	20070419	US20060500836	20060807
US2009198219 AA	20090806	US20090423267	20090414
US2011276011 AA	20111110	US20110186156	20110719
US2011276012 AA	20111110	US20110186198	20110719
US7625337 BB	20091201	US20060500836	20060807
US8016752 BB	20110913	US20030402083	20030328
US9119937 BB	20150901	US20110186198	20110719
US9433745 BB	20160906	US20040868252	20040614
WO04064891 A2	20040805	WO2004US01241	20040115
WO04064891 A3	20050602	WO2004US01241	20040115
WO04064892 A2	20040805	WO2004US01242	20040115
WO04064892 A3	20050303	WO2004US01242	20040115

Probable Assignee: WL GORE AND ASSOCIATES INC NEWARK

Assignee(s):(std)**:** ARMSTRONG JOSEPH R ; CAMPBELL CAREY V ; CULLY EDWARD H ; DAUGHERTY JOHN R ; ESKAROS SHERIF ; FOUTRAKIS GEORGE N ; GORE ENTERPRISE

HOLDINGS INC ; FLURY KEITH M ; GORE AND ASS ; GORE ENTERP HOLDINGS INC ; FLUR KEITH M ; ESKAROS SHERIF A ; TRAPP BENJAMIN M ; MANN JAMES WILLIAM ; VONESH MICHAEL J ; ROEBER PETER J ; MANN JAMES W ; ULM MARK J ; JOHNSON ERIC G ; KING DAVID R

Assignee(s): WL GORE AND ASSOCIATES INC ; WL GORE AND ASSOCIATES INC NEWARK ; W L GORE AND ASSOCIATES INC

Inventor(s):(std)**:** ARMSTRONG JOSEPH R ; CAMPBELL CAREY V ; DAUGHERTY JOHN R ; ESKAROS SHERIF ; ESKAROS SHERIF A ; FLUR KEITH M ; CULLY EDWARD H ; FLURY KEITH M ; FOUTRAKIS GEORGE N ; JOHNSON ERIC G ; MANN JAMES W ; MANN JAMES WILLIAM ; KING DAVID R ; ROEBER PETER J ; TRAPP BENJAMIN M ; ULM MARK J ; VONESH MICHAEL J

Inventor(s): VONESH MICHAEL J FLAGSTAFF ; VONESH MICHAEL ; TRAPP BENJAMIN ; MANN JAMES ; MARK J ULM ; MICHAEL J VONESH ; ROEBER PETER ; JOSEPH R ARMSTRONG ; KEITH M FLURY ; JOHN R DAUGHERTY ; FLURY KEITH M FLAGSTAFF ; FOUTRAKIS GEORGE ; CULLY EDWARD H FLAGSTAFF ; FLURY KEITH ; DAVID R KING ; EDWARD H CULLY ; ERIC G JOHNSON ; CULLY EDWARD ; ARMSTRONG JOSEPH R FLAGSTAFF ; CAMPBELL CAREY

Agent(s): GRIFFITH HACK; GOWLING LAFLEUR HENDERSON LLP; MARKS AND CLERK LUXEMBOURG LLP; SHANKS ANDREW; RANKIN DOUGLAS; WILSON GARY; GORE ENTERPRISE HOLDINGS INC; W L GORE AND ASSOCIATES INC; KEVIN J; WAYNE D

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

International class (IPC 8–9): A47C16/02 A47C7/52 A61B1/12 A61F2/958 A61L29/00 A61L29/04 A61M25/00 A61M25/01 A61M25/09 A61M25/10 A61M25/14 A61M29/00 A61M5/00 A61M5/178 (Advanced/Invention); A61F2/958 A61M25/01 (Advanced/Non–invention); A47C16/00 A47C7/00 A61B1/12 A61M25/00 A61M25/09 A61M29/00 (Core/Invention); A61M (Subclass/Invention)

International class (IPC 1–7): A61M25/00 A61M25/01 A61M5/00

CPC: A61M25/10 A61F2/958 A61M25/0023 A61M25/0029 A61M25/0032 A61M25/0043 A61M25/005 A61M25/0051 A61M25/0052 A61M25/0053 A61M25/1002 A61M25/1011 A61M2025/0034 A61M2025/0035 A61M2025/0063 A61M2025/0183 A61M2025/0188 A61M2025/1056 A61M2025/1081 A61M25/00 A61M2025/0175

European class: A61F2/958 A61M25/00 A61M25/00R1M4 A61M25/00S A61M25/00S2 A61M25/10 K61F2/958 K61M25/00R1 K61M25/00R1M10 K61M25/00R1M12 K61M25/00R1M8 K61M25/00S10 K61M25/00S2A K61M25/00S2B K61M25/00S2C K61M25/01H K61M25/01M K61M25/01Q K61M25/10A K61M25/10D K61M25/10Z17 K61M25/10Z6

US class: 1/1 600/156 604/101.01 604/102.03 604/103.04 604/244 604/507 604/523 604/524 604/528 604/96.01

Classification Explorer

Cited documents: WO9502429 A1, WO0193941 A1, US8016752 BB, US6945956 BB, US6929635 BB, US6929634 BB, US6783522 BB, US6777644 BB, US6673102 BA, US6589207 BA, US6544278 BA, US6458099 BB, US6447540 BA, US6423032 BB, US6398799 BB, US6299595 BA, US6273899 BA, US6238410 BA, US6223637 BA, US6203558 BA, US6200305 BA, US6159565 A, US6107004 A, US6099496 A, US6095990 A, US6059813 A, US6059770 A, US6056719 A, US6027779 A, US6025044 A, US6016848 A, US5993460 A, US5972441 A, US5968012 A, US5951539 A, US5919164 A, US5902290 A, US5879794 A, US5846259 A, US5807355 A, US5788707 A, US5752934 A, US5752932 A, US5718680 A, US5709658 A, US5690644 A, US5662703 A, US5647857 A, US5591194 A, US5578009 A, US5573520 A, US5571135 A, US5534007 A, US5531700 A, US5489271 A, US5476589 A, US5472425 A, US5472423 A, US5466222 A, US5458613 A, US5454795 A, US5445646 A, US5425723 A, US5424723 A, US5413559 A, US5395335 A, US5389087 A, US5380290 A, US5380283 A, US5364353 A, US5336184 A, US5334169 A, US5334153 A, US5334147 A, US5324269 A, US5273042 A, US5205822 A, US5195978 A, US5171222 A, US5163921 A, US5135535 A, US5107852 A, US5102403 A, US50661 A, US5061273 A, US5030210 A, US5024234 A, US4988356 A, US4877661 A, US4791966 A, US4762129 B1, US4762129 A, US4732152 A, US4601713 A, US4574477 A, US4552554 A, US4334169 A, US4235231

A, US4187390 A, US3953566 A, US3105492 A, US2004193139 AA, US2004122509 AA, US2003130721 AA, US2003050661 AA, US2002139785 AA, US2002082556 AA, US2002077654 AA, US2002065550 AA, US2001031979 AA,

Forward Citations: WO16158475, WO15116844, WO15031025, WO14163846, WO13074756, WO13056023, WO13022736, WO13022420, WO12094135, WO12021844, WO12021844, WO11106383, WO11106383, WO10136936, WO10136936, WO10096712, WO09105327, WO09074502, WO07124496, WO07124496, WO07124161, WO06107343, WO06107343, USD679804, US9669194, US9649477, US9636258, US9629684, US9629656, US9623216, US9622822, US9615950, US9615775, US9610428, US9603506, US9592142, US9586023, US9572480, US9554691, US9526876, US9526641, US9504776, US9474639, US9474543, US9468546, US9468362, US9463068, US9457175, US9456872, US9446224, US9433745, US9433437, US9402973, US9399121, US9370649, US9370643, US9351750, US9320831, US9308361, US9308110, US9283040, US9282992, US9265913, US9265407, US9241834, US9220879, US9220395, US9200194, US9198736, US9192742, US9192498, US9180279, US9179823, US9175558, US9167961, US9155492, US9149604, US9144665, US9132216, US9126007, US9119937, US9114037, US9107574, US9101384, US9089258, US9084876, US9078659, US9072626, US9072624, US9055965, US9050440, US9039680, US9039657, US9023070, US9011511, US8998843, US8979888, US8968383, US8968269, US8961495, US8961398, US8951225, US8945088, US8936634, US8932276, US8927048, US8920870, US8905922, US8894614, US8870893, US8870755, US8864787, US8864675, US8858586, US8852143, US8852112, US8845712, US8845675, US8828041, US8801774, US8777926, US8777841, US8768487, US8764786, US8764779, US8764729, US8764726, US8764709, US8764631, US8758847, US8758420, US8753328, US8747389, US8747300, US8740929, US8721591, US8715169, US8702626, US8673100, US8663259, US8647294, US8636690, US8597566, US8597238, US8585640, US8574220, US8535292, US8535232, US8534124, US8485199, US8469944, US8465511, US8465462, US8460240, US8454673, US8454578, US8444598, US8443845, US8439878, US8439687, US8435290, US8435282, US8435229, US8425457, US8414477, US8414473, US8403896, US8388642, US8377041, US8366674, US8343040, US8317816, US8317678, US8308749, US8303538, US8285362, US8267953, US8252219, US8246574, US8235942, US8216294, US8206370, US8190389, US8172828, US8162878, US8162877, US8152742, US8142422, US8096299, US8070898, US8062317, US8048143, US8012117, US7996974, US7993303, US7927305, US7900563, US7879022, US7862576, US7819887, US7654264, US7625337, US7559137, US7556710, US7468051, US2015352321, US2015133800, US2014277058, US2014276683, US2014202462, US2014194918, US2013253568, US2013253467, US2013131549, US2013116655, US2013110085, US2013110081, US2012330232, US2012283775, US2012215071, US2012197069, US2012165663, US2012004496, US2011276077, US2011276012, US2011276011, US2011237955, US2011196191, US2011196190, US2011178370, US2011106097, US2011098798, US2011061454, US2011034989, US2011009942, US2010318180, US2010300449, US2010300448, US2010298862, US2010297334, US2010286756, US2010280316, US2010268173, US2010234875, US2010234800, US2010217374, US2010217372, US2010211047, US2010211025, US2010206453, US2010198193, US2010193106, US2010191265, US2010145309, US2010137837, US2010087906, US2010087789, US2010087780, US2010081879, US2010076264, US2010069718, US2009318757, US2009283206, US2009227962, US2009210040, US2009198219, US2009133600, US2009126862, US2009105643, US2009088631, US2009038752, US2009005645, US2008312731, US2008221691, US2008188831, US2008140173, US2008125754, US2008109029, US2008086083, US2008065014, US2008033570, US2007293846, US2007293821, US2007270779, US2007255183, US2007250149, US2007191812, US2007088323, US2007075452, US2007060883, US2007027524, US2007021821, US2006229657, US2006198976, US2006064123, US2005197667, US2005171568, US2005143803, US2005021004, US2004230212, JP4966967, JP2016533833, JP2014028050, JP2013184020, GB2445131, GB2445131, ES2327588, EP2842525, EP2766084, EP2766084, EP2184081, EP1990069, EP1904143, EP1904143, EP1865858, EP1865858, EP1853329, EP1853329, DE102008043541, CN105578998, CN104582643, CN103945899, CN103068435,

Abstract:
Source: US2004143240A A catheter provided with an adjustable length guidewire catheter lumen, located proximal of a therapeutic device or agent positioned at the distal end of the catheter. The length of the adjustable length guidewire catheter lumen is controlled by the physician, allowing the benefits of both over−the−wire and rapid exchange systems to be provided in one catheter. The adjustable length is provided with a thin−walled tube that corrugates under axial compression. The tube may optionally be pre−corrugated or may be allowed to corrugate non−uniformly under the axial compression. The catheter length may change by, for example, over 100 percent of its original length between full axial compression and full axial extension.

96) Family number: 43753454 (US2009240264A) © PatBase

Title: MEDICAL SUTURING DEVICE AND METHOD FOR USE THEREOF

Priority: US20080050184 20080318 WO2009IL00307 20090318

Family:

Publication number	Publication date	Application number	Application date
EP2265188 A2	20101229	EP20090721814	20090318
EP2265188 A4	20141029	EP20090721814	20090318
EP2265188 B1	20170315	EP20090721814	20090318
US2009240264 AA	20090924	US20080050184	20080318
US8696689 BB	20140415	US20080050184	20080318
WO09116042 A2	20090924	WO2009IL00307	20090318
WO09116042 A3	20100311	WO2009IL00307	20090318

Probable Assignee: VENTOR TECHNOLOGIES LTD

Assignee(s):(std)**:** BENARY RAPHAEL ; BENARY RAPHAEL BENARY ; BERNARY REPHAEL ; MEDTRONIC VENTOR TECH LTD ; MEDTRONIC VENTOR TECHNOLOGIES LTD ; TUVAL YOSI ; VENTOR TECHNOLOGIES LTD ; TUVAL YOSSI

Inventor(s):(std)**:** BENARY RAPHAEL ; BENARY RAPHAEL BENARY ; BERNARY REPHAEL ; TUVAL YOSI ; TUVAL YOSSI

Agent(s): ZIMMERMANN AND PARTNER; ZIMMERMANN AND PARTNER PATENTANWAELTE MBB; EDWARD LANGER C O SHIBOLETH YISRAELI ROBERTS ZISMAN AND CO; REINHOLD COHN AND PARTNERS

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 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 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

International class (IPC 8–9): A61B17/04 A61B17/06 A61B17/062 (Advanced/Invention); A61B17/04 A61B17/06 A61B17/062 (Core/Invention)

CPC: A61B17/0469 A61B17/0485 A61B2017/00243 A61B2017/06052 A61B2017/06076

European class: A61B17/04E K61B17/00E1C K61B17/04J K61B17/06B K61B17/06N2

US class: 606/144 606/148 606/223

Classification Explorer

Cited documents: WO09140545, WO08138584, WO08004147, WO05044079, US7635386 BA, US7442204 BB, US7429269 BB, US7338520 BB, US7329278 BB, US7300463 BB, US7300457 BB, US7252682 BB, US7201772 BB, US7198646 BB, US7195641 BB, US7186265 BB, US7153324 BB, US7147663 BA, US7105016 BB, US7104949 BB, US7101396 BB, US7097659 BB, US6939365 BA, US6936066 BB, US6908481 BB, US6896690 BA, US6893460 BB, US6890330 BB, US6887266 BB, US6875231 BB, US6830585 BA, US6830584 BA, US6652578 BB, US6626917 BA, US6558314 BA, US6554845 BA, US6494909 BB, US6482228 BA, US6468303 BA, US6458153 BA, US6454799 BA, US6440164 BA, US6425916 BA, US6338735 BA, US6200336 BA, US6171335 BA, US6171335 B1, US6159239 A, US6110201 A, US6042607 A, US5997573 A, US5972001 A, US5957949 A, US5855601 A, US5824061 A, US5817126 A, US5782809 A, US5695498 A, US5609626 A, US5575818 A, US5569269 A, US5562685 A, US5500014 A, US5411552 A, US5356424 A, US5281236 A, US2010137979 AA, US2010131054 AA, US2010094411 AA, US2010004739 AA, US2009287183 AA, US2009240320 AA, US2009240264 AA, US2009234443 AA, US2009222026 AA, US2009216313 AA, US2009171447 AA, US2009138079 AA, US2009054976 AA, US2009048656 AA, US2009012600 AA, US2008255661 AA, US2008255660 AA, US2008234797 AA, US2008228263 AA, US2008228254 AA, US2008161826 AA, US2008154356 AA, US2008082166 AA, US2008077234 AA, US2008071368 AA, US2008071366 AA, US2008071363 AA, US2008071362 AA, US2008071361 AA, US2008065011 AA, US2008065001 AA, US2008048656 AA, US2008015671 AA, US2008009940 AA, US2007244556 AA, US2007244555 AA, US2007244554 AA, US2007244553 AA,

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Forward Citations: WO16019349, US9642704, US9629718, US9622774, US9610097, US9610076, US9597204, US9592120, US9585754, US9579194, US9579097, US9539088, US9532873, US9532773, US9526638, US9504568, US9486341, US9486313, US9468517, US9427339, US9427220, US9398910, US9393115, US9387071, US9381082, US9339382, US9333100, US9331328, US9301834, US9295550, US9289289, US9277915, US9254209, US9248017, US9237886, US9226826, US9226824, US9186176, US9161836, US9161778, US9149358, US9149357, US9138314, US9138312, US9138211, US9101457, US9089422, US9078633, US9066799, US9060857, US9060856, US9050065, US9044267, US8998981, US8998979, US8986361, US8986329, US8979892, US8961593, US8956402, US8956397, US8951298, US8951280, US8945208, US8945203, US8920492, US8876896, US8876895, US8876894, US8870938, US8840661, US8834564, US8834563, US8808369, US8801779, US8784478, US8777980, US8771346, US8771345, US8771302, US8764820, US8764795, US8747460, US8747459, US8721714, US8721708, US8709068, US8696743, US8696689, US8685084, US8685077, US8673000, US8652204, US8628570, US8628566, US8623077, US8613765, US8603159, US8579966, US8574287, US8540768, US8539662, US8535373, US8512397, US8511244, US8506620, US8500757, US8486131, US8475522, US8439970, US8430927, US8414643, US8348996, US8348995, US8317856, US8313525, US8312825, US8241274, US8226710, US8157853, US8157852, US8137398, US8092487, US8075615, US8070801, US8052750, US8016877, US8002826, US7972378, US7914569, US7892281, US7871436, US7780726, US7682390, US2016235973, US2016089182, US2014236189, US2014148786, US2014100608, US2014100594, US2012136200, US2012116418, US2012095504, US2012089181, US2012078270, US2011190811, US2011178537, US2011028995, JP5869565, JP2014511205, JP2013537840, JP2013529982, JP2013509976, EP2803323, EP2645938, CN103327936, CN103298414, CN103118605, CN103118605, CN102791200,

Abstract:
Source: US2009240264A A suturing device for use with a delivery catheter in a transcatheter procedure, for closing an opening formed in the body. The suturing device comprises: a spiral needle having a central core, a proximal end, and a distal end. The distal end terminates in a sharp point for cutting a spiral passageway through body tissue surrounding the opening that is to be closed. The device also includes a guide wire having a suture eye at one end thereof for receiving suture thread after the guide wire has been advanced through the hollow central core of the spiral needle. The device further includes driving means, for allowing advancing and retracting of the spiral needle and guide wire with respect to the catheter, and for allowing connecting between the suture thread and the suture eye of the guide wire. The present invention also relates to a method for closing an opening formed in the body using a transcatheter procedure.

0) US2011282285A – CATHETER PLACEMENT DEVICE AND METHOD

97) Family number: 49953135 (US2011282285A) © PatBase

Title: CATHETER PLACEMENT DEVICE AND METHOD

Priority: CN201180029526 20110513 JP20130510353T 20110513 US20100345005P 20100514 US20100372050P 20100809 US20100345022P 20100514 JP20160107046 20160530 US20100415248P 20101118 US20100385844P 20100923 US20110107781 20110513 US20130044623 20131002 US20130099050 20131206 US20130771703P 20130301 US20120431403F 20120906 US20120431405F 20120906 WO2011US36530 20110513 US20140585800 20141230 US20150702580 20150501 US20140988114P 20140502 WO2013US73577 20131206 US20160154808 20160513 US20150162580P 20150515 WO2015US28950 20150501

Family:

Publication number	Publication date	Application number	Application date
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Assignee(s): CRBARD INC ; C R BARD INC ; C RBARD INC ; C.R. BARD, INC.

Inventor(s):(std)**:**

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Agent(s): NORTON ROSE CANADA SENCRL SRL LLP; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; HOFFMANN EITLE; YAMAZAKI KOSAKU; HOSHINO OSAMU; ONO SHINJIRO; TOMITA HIROYUKI; KOBAYASHI YASUSHI; YAMAMOTO OSAMU; TAKEUCHI SHIGEO; RUTAN AND TUCKER LLP; WIGHT TODD W

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

International class (IPC 8–9): A61B17/34 A61M25/00 A61M25/01 A61M25/04 A61M25/06 A61M25/08 A61M25/09 A61M25/092 A61M31/00 A61M39/06 A61M39/22 A61M5/178 A61M5/32 (Advanced/Invention)

CPC: A61M5/3273 A61M25/0113 A61M29/00 A61M2005/325 A61M25/0631 A61M25/0105 A61M25/0618 A61M25/065 A61M25/0102 A61M25/09 A61M39/22 A61M25/09041 A61M25/0097 A61M5/178 A61M25/0606 A61M25/0693 A61M2025/09083

European class: A61M25/00V A61M25/01C A61M25/01C3 A61M25/06D1 A61M25/09C K61M25/06C K61M29/00 K61M5/32C2H1D4 K61M5/32C2H6

US class: 604/164.08 604/164.080P 604/164.13 604/164.130S 604/170.03 604/506 D24/112

Locarno class: 24/02

Classification Explorer

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Forward Citations: WO17051801, WO16187063, WO16187037, WO16185950, WO16185949, WO16185909, WO16178974, WO16152378, WO16152377, WO16127175, WO16037127, WO15168655, WO15023358, WO14165783, WO14140257, WO14133617, WO14123848, WO14120741, WO14062728, WO13075118, USD788909, USD776260, USD776259, USD773651, USD764054, USD757253, USD756505, USD755368, USD751699, USD751691, USD750223, USD749214, USD748777, USD746443, USD740410, USD735321, USD733289, US9668766, US9649048, US9636332, US9636253, US9636031, US9616201, US9610403, US9572800, US9539139, US9522254, US9440052, US9399119, US9375552, US9351762, US9238104, US9205229, US9162038, US9095683, US8998852, US8986227, US8939938, US8932258, US8926563, US8834422, US8821439, US8764711, US8721546, US8715250, US8672895, US8628497, US8486024, US8273056, US2014171874, US2014094774, US2013131597, US2011306953, US2010210934, JP2016106008, CN105246536, CN105102054, CN104936516, CN104853799, CN104043181, CN104043181,

Abstract:
Source: US2011282285A An insertion tool for inserting a catheter into a body of a patient is disclosed. The insertion tool unifies needle insertion, guidewire advancement, and catheter insertion in a single device. In one embodiment, the insertion tool comprises a housing in which at least a portion of the catheter is initially disposed, a hollow needle distally extending from the housing with at least a portion of the catheter pre−disposed over the needle, and a guidewire pre−disposed within the needle. A guidewire advancement assembly is also included for selectively advancing the guidewire distally past a distal end of the needle in preparation for distal advancement of the catheter. In one embodiment a catheter advancement assembly is also included for selectively advancing the catheter into the patient. Each advancement assembly can include a slide or other actuator that enables a user to selectively advance the desired component.

0) WO16139606A1 – PREVENTING NON–TARGET EMBOLIZATION PREVENTION ...

98) Family number: 62922887 (WO16139606A1) © PatBase

Title: PREVENTING NON–TARGET EMBOLIZATION

Priority: US20150101637P 20150109 US20150127036P 20150302

Family:

Publication number	Publication date	Application number	Application date
WO16110824 A1	20160714	WO2016IB50087	20160108
WO16139590 A1	20160909	WO2016IB51167	20160302
WO16139597 A2	20160909	WO2016IB51175	20160302
WO16139597 A3	20161013	WO2016IB51175	20160302
WO16139606 A1	20160909	WO2016IB51186	20160302

Probable Assignee: ACCURATE MEDICAL THERAPEUTICS LTD

Assignee(s):(std)**:** ACCURATE MEDICAL THERAPEUTICS LTD

Inventor(s):(std)**:** MILLER ERAN ; TAL MICHAEL GABRIEL

Agent(s): ARGAMAN INTELLECTUAL PROPERTY LTD; WINSHTEIN RONNY

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 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

International class (IPC 8–9): A61B17/12 A61B17/22 A61F2/01 A61M25/00 (Advanced/Invention)

CPC: A61B17/12186 A61B2017/00884 A61B2017/00893 A61B2017/1205 A61M25/0068 A61M25/0074 A61M2025/0042 A61M2025/0057 A61M2025/0073 A61B17/12109 A61B2017/00345 A61M25/00 A61M25/0054 A61M25/0067 A61M25/007 A61M31/005 A61M2025/0024 A61M2025/0079 A61M2025/0096 A61F2/013

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Abstract:
Devices, methods and kits for preventing or reducing non–target microparticles deposition and embolization, in conjunction with delivering microparticles (e.g., embolization material) via a blood vessel to a target bodily part. Applicable for entrapping infiltrated microparticles within heart right atrium. Entrapping device includes: filter; and filter collapsing mechanism sized for positioning in catheter lumen of a filter delivering catheter, and having proximal end actuatable from outside of subject. Filter configured for positioning within heart right atrium, for self–expanding and covering right atrium inlet opening, and configured, when expanded, to collect embolic material delivered to target organ and infiltrated into outflow vessel thereof draining to right atrium. Filter collapsing mechanism configured for collapsing, and being manipulated to form a pocket in filter, to entrap collected embolic material therein, and drawing filter with collected embolic material in pocket, into catheter lumen of filter delivering catheter.

99) Family number: 42244881 (US2002115997A) © PatBase

Title: Electrosurgical systems and techniques for sealing tissue

Priority:

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US20020366992P	20020320	US20020384496P	20020530	US20020362689P	20020523
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US20080098560	20080407	US20090406914	20090318	US20030523567P	20031119
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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 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

International class (IPC 8–9): A05B6/62 A61B1/00 A61B17/28 A61B18/04 A61B18/12 A61B18/14 A61B18/18 A61F2/00 A61F7/00 A61F7/12 H01C7/10 H01C7/13 H05B1/02 H05B3/10 H05B3/14 H05B3/42 (Advanced/Invention); A61B17/00 A61B17/072 A61B18/08 A61B18/12 A61B18/14 A61B18/18 (Advanced/Non–invention); A61B1/00 A61B18/04 A61B18/12 A61B18/14 A61B18/18 A61F7/00 A61F7/12 H01C7/13 H05B1/02 H05B3/10 H05B3/14 (Core/Invention); A61B17/00 A61B17/068 A61B18/12 A61B18/14 (Core/Non–invention); A61B (Subclass/Invention)

International class (IPC 1–7): A61B1/00 A61B17/08 A61B18/04 A61B18/12 A61B18/14 A61B18/18 A61N1/00 C08L83/00 H01B1/00 H01M2/00 H01M8/10 H05B1/02 H05B3/02 H05B3/06 H05B3/10 H05B3/16 H05B3/44 H05B3/54

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Abstract:
Source: US2002115997A An electrosurgical instrument and technique for creating thermal seal or welds transected margins of engaged tissue. The working end provides very elongate jaws particularly suited for resecting tissue, such as in a lung resection. The jaw assembly carries a bi−polar electrode arrangement that provides for Rf current flow to targeted tissue described as a subfascial−to−fascial (or medial−to−surface) bi−polar approach. The working end of the device carries an openable and closable jaw assembly with paired first and second jaws for engaging tissue. The paired jaws have an axial channel for receiving a sliding (blade) member for transecting the captured tissue. The paired jaws carry electrode surfaces having a common polarity so that Rf current will not flow d between the jaws which engage the surface or fascial tissue layers. Further, the transecting member had flange−type surface portions that extend over a substantial longitudinal length of the jaws to maintain very high compression on captured tissue even when the jaws have a very small cross section and hence may be somewhat flexible.

0) US2002068924A – PHOTOABLATION WITH INFRARED RADIATION

100) Family number: 31413035 (US2002068924A) © PatBase

Title: Photoablation with infrared radiation

Priority:

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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 TH TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): A61B1/00 A61B1/04 A61B1/05 A61B1/06 A61B1/07 A61B1/313 A61B17/00 A61B17/125 A61B18/00 A61B18/02 A61B18/04 A61B18/12 A61B18/14 A61B18/16 A61B18/18 A61B18/20 A61B18/22 A61B18/24 A61B19/00 A61B5/00 A61B5/06 A61F2/958 A61L2/10 A61L29/08 A61M25/00 A61M25/01 A61M25/10 A61N5/06 (Advanced/Invention);
A61B1/00 A61B17/00 A61B17/22 A61B18/00 A61B18/02 A61B18/14 A61B18/20 A61B18/22 A61B19/00 A61M25/00 A61N5/06 A61N7/02 (Advanced/Non–invention);
A61B1/04 A61B18/04 A61B18/14 A61B18/18 A61B18/20 A61L2/10 A61L29/00 A61M25/01 A61N5/06 (Core/Invention);
A61B17/00 A61B17/22 A61B18/00 A61B18/14 A61B18/20 A61B19/00 A61N7/00 (Core/Non–invention)

International class (IPC 1–7): A61B17/36 A61B17/37 A61B18/04 A61B18/18 A61B18/20 A61B18/22 A61B18/24 A61L2/08 A61M25/00 A61M25/01 A61N1/00 A61N5/06 A61R7/00 A67B78/78 B08B9/00

CPC: A61M25/1002 A61M25/0054 A61M25/0141 A61M25/0147 A61M29/02 A61M2025/0004 A61M2025/0037 A61M2025/0681 A61M2025/1015 A61B2017/22058 A61B2017/22059 A61B2018/00642 A61B2018/00839 A61B2018/2238 A61M25/0105 A61M25/0133 A61M25/0138 A61M2025/0161 A61N5/0601 A61B18/22 A61B2017/00243 A61B2018/2288 A61B18/1815 A61B2018/00351 A61B2018/00577 A61N2005/1003 A61N7/022 A61B1/00165 A61B1/0638 A61B5/0075 A61B5/0084 A61B2018/00011 A61B5/743 A61B5/4836 A61B5/7264 A61B1/00087 A61B1/07 A61B5/0044 A61B2018/00357 A61B2018/0069 A61B2018/00904 A61B2576/023 A61B2090/065 A61B2090/3966 A61B18/1492 A61B2018/00214 A61B2018/00285 A61B2018/00375 A61B2018/0262 A61B2017/22051 A61B2018/0022 A61B2018/00982 A61B2018/0212 A61B2090/3937 A61B18/24 A61B2017/00057 A61B2018/2261 A61L2/10 A61L29/085 A61N7/02 A61B18/245 A61B2017/00061 A61B2018/0097 A61B2018/2266 A61B2018/2272 A61B18/1482 A61B1/00135 A61B1/00195 A61B1/05 A61B1/00045 A61B1/3137

European class: A61B1/06J A61B18/14V A61B18/22 A61B18/24 A61B18/24B A61B5/00P12B A61B5/00P7 A61L2/10 A61L29/08B A61M25/01C A61M25/01C10 A61M25/01C10C A61M25/10A A61M29/02 A61N5/06B K61B1/00S2 K61B17/00C1L K61B17/00C1L2 K61B17/00E1C K61B17/22H K61B17/22H4R K61B17/22H4T K61B18/00A2 K61B18/00B14 K61B18/00B14A K61B18/00B16A2 K61B18/00F6A5 K61B18/00H12E K61B18/00H2 K61B18/00P2 K61B18/00R K61B18/02C K61B18/02H4 K61B18/14V K61B18/22C K61B18/22T2 K61B18/22T4 K61B18/22T6 K61B18/22T8 K61B19/46H2 K61B19/54J K61M25/00C K61M25/00R1M16 K61M25/00S3 K61M25/01C10E K61M25/01C10K K61M25/01C10S K61M25/06H2 K61M25/10D2 K61N7/02

US class: 1/1 128/898 250/492.1 356/614 356/622 422/24 600/108 600/109 600/109P 600/478 604/509 604/509P 604/523 604/916 606/10 606/10S 606/11 606/12 606/13 606/14 606/14P 606/14S 606/15 606/15P 606/15S 606/16 606/16P 606/16S 606/17 606/17P 606/18 606/19 606/2 606/20 606/21 606/21P 606/21S 606/23 606/27 606/27S 606/28 606/28S 606/3 606/32 606/33 606/33S 606/3P 606/4 606/41 606/41P 606/41S 606/42 606/42S 606/45 606/48 606/49 606/5 606/50 606/52 606/6 606/7 606/7S 606/8 606/9 607/100 607/101 607/119 607/88 607/88P 607/89 607/89S 607/92 607/94

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Abstract:
Source: US2002068924A Infrared surgical photoablation instruments are disclosed for creating lesions in tissue, including cardiac tissue for treatment of arrhythmias and other diseases. The hand held instruments are especially useful in open chest or port access cardiac surgery for rapid and efficient creation of curvilinear lesions to serve as conduction blocks. Photoablative instruments are disclosed that emit radiation at a wavelength in a range from about 800 nm to about 1000 nm, and preferably emit at a wavelength in a range of about 915 nm to about 980 nm. Radiation at a wavelength of 915 nm or 980 nm is commonly preferred, in some applications, because of the optimal absorption of infrared radiation by cardiac tissue at these wavelengths.

- List: SS3 1–50 (FT=occlu* and hollow and (channel or passage or bore) and (helix or spiral)) (Results 282)

0) US2002111647A – ADJUSTABLE LEFT ATRIAL APPENDAGE OCCLUSION DEVI...

1) Family number: 31133104 (US2002111647A) © PatBase

Title: ADJUSTABLE LEFT ATRIAL APPENDAGE OCCLUSION DEVICE

Priority:

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US20160333945	20161025				

Family:

Publication number	Publication date	Application number	Application date
AT416717 E	20081215	AT20040757547T	20040316
AT512630 E	20110715	AT19990960236T	19991108
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Probable Assignee: EV3 ENDOVASCULAR INC

Assignee(s):(std)**:** APLIWA MEDICAL INC ; APPRIVA MEDICAL INC ; ARTRITECH INC ; ATRITECH INC ; BURG ERIC J VAN D ; EV3 SUNNYVALE INC A CALIFORNIA ; BURG ERIK J VAN D ; EV3 SUNNYVALE INC ; DE CICCO DINO ; FRAZIER ANDREW G ; EV3 ENDOVASCULAR INC ; DECICCO DINO ; MV MEDICAL DEVICES INC ; KLENK ALAN R ; KUME STEWART M ; OGI DARRELL H ; FRAZIER ANDREW G C ; KHAIRKHAHAN ALEXANDER K ; LESH MICHAEL D ; ROUE CHAD C ; KREIDLER MARC S ; KUSLEIKA RICHARD ; KHAIRKAHAN ALEX K ; KRIEDLER MARC S

Assignee(s):

KUSLEIKA RICHARD S ; MVMD INC ; FRAZIER ANDREW GC ; EV3 SUNNYVALE INC A CALIFORNIA CORP ; BURG ERIK VAN D ; CICCO DINO DE ; BURG ERIK J V ; BURG ERIK JV ; ATRITECH INC PLYMOUTH ; BOSTON SCIENTIFIC SCIMED INC

Inventor(s):(std)**:** BURG ERIK VAN D ; CICCO D DE ; FRAZIER ANDREW ; FRAZIER ANDREW G ; FRAZIER ANDREW G C ; KHAIRKAHAN ALEX K ; KHAIRKHAHAN ALEX ; KHAIRKHAHAN ALEX K ; KHAIRKHAHAN ALEXANDER ; KLENK ALAN ; KREIDLER MARC ; KRIEDLER MARC S ; KUME STEWART ; LESH M D ; LESH MICHAEL ; LESH MICHAEL D ; AC ANDREW G C FRAZIER ; BURG E VAN D ; BURG ERIK J V ; OGI DARRELL ; ROUCE CHAD C ; ROUE CHAD ; ROUE CHAD C ; VAN DER BURG ERIC ; VAN DER BURG ERIC J ; VAN DER BURG ERIK ; BURG E VAN DER ; VAN DER BURG ERIK J ; OGI DARRELL H ; MICHAEL D LESH ; MD LESH ; MARC S KREIDLER ; KUSLEIKA RICHARD S ; KUSLEIKA RICHARD ; KUME STEWART M ; KREIDLER MARC S ; KLENK ALAN R ; KHAIRKHAHAN ALEXANDER K ; E VAN D BURG ; DINO DE CICCO ; DECICCO DINO ; ERIK VAN D BURG ; DE CICCO DINO ; D DE CICCO ; CHAD C ROUE ; BURG ERIK J VAN DER ; BURG ERIK J VAN D ; BURG ERIC VAN D ; BURG ERIC J VAN D ; ANDREW G C FRAZIER ; ALEX K KHAIRKHAHAN ; CICCO DINO DE ; BURG ERIK VAN DER

Inventor(s): BURG ERIK ; ALEX K KHAIRKAHAN ; CHAD C ROUCE ; ALAN R KLENK ; FRAZIER ANDREW GC ; ERIK VAN DER BURG ; ALEXANDER K KHAIRKHAHAN ; BURG ERIK J SUNNYVALE VAN D ; BURG ERIK SUNNYVALE VAN D ; DARRELL H OGI ; ERIK J VAN DER BURG ; ERIK J VAN D BURG ; DE CICCO DINO SUNNYVALE ; KHAIRKHAHAN ALEX K PALO ALTO ; KHAIRKAHAN ALEX ; FRAZIER ANDREW G C SUNNYVALE ; FRAZIER ANDREW G C MOUNTAIN VIEW ; KHAIRKHAHAN ALEXANDER K PALO ALTO ; KLENK ALAN R SAN JOSE ; KRIEDLER MARC ; KREIDLER MARC S SUNNYVALE ; KUME STEWART M BELMONT ; LESH MICHAEL D MILL VALLEY ; STEWART M KUME ; ROUE CHAD C FREMONT ; OGI DARRELL H SUNNYVALE ; E VAN DER BURG ; ROUE CHAD C FREEMONT ; BURG ERIK JV ; ANDREW G C FRAZIER AC ; M D LESH

Agent(s): FB RICE; SIM AND MCBURNEY; VOSSIUS AND PARTNER PATENTANWAELTE RECHTSANWAELTE MBB; NACHSHEN NEIL JACOB; ASMUSSEN ARNOLD; MALLALIEU CATHERINE LOUISE ET AL; KNOBBE MARTENS OLSON AND BEAR LLP; BECK AND TYSVER PLLC; BECK AND TYSVER PLL; SEAGER TUFTE AND WICKHEM LLC; SEAGER TUFTE AND WICKHAM LLC; SEAGER TUFTE AND WICKHEM 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 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

International class(IPC 8–9)**:** A61B17/00 A61B17/08 A61B17/11 A61B17/12 A61B17/122 A61B29/00 A61D1/00 A61F2/01 A61F2/04 A61F2/06 A61F2/958 A61K31/12 A61L27/00 A61L27/48 A61L27/56 A61L31/12 A61L31/14 A61M25/10 A61M29/00 B32B27/12 B32B3/00 (Advanced/Invention); A61B17/00 A61B17/08 A61B17/122 (Advanced/Non–invention); A61B17/00 A61B17/03 A61B17/12 A61F2/04 (Core/Invention); A61B (Subclass/Invention)

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CPC: A61B17/12 A61L31/129 B32B27/12 A61B2017/00606 A61B17/122 A61B2017/00601 A61B2017/00632 A61B2017/00867 A61B2017/081 A61F2002/018 A61F2230/0006 A61F2230/0071 A61F2230/008 A61B17/12031 A61F2002/011 A61B17/12022 A61B2017/00575 A61B2017/00623 A61B2017/1205 A61B2017/12095 A61B2017/00628 A61B17/0057 A61B17/12122 A61B17/12136 A61B17/12172 A61B17/12186 A61B17/12195 A61B2017/00243 A61B2017/00557 A61B2017/00579 A61B2017/00592 A61B2017/00597 A61B2017/00615 A61B2017/00619 A61F2/01 A61F2230/0069 A61F2230/0076 A61M25/10 A61M2025/1054 A61M2210/125

European class: A61B17/00P A61B17/12 A61B17/12P A61B17/12P5H A61B17/12P7B A61B17/12P7W1 A61B17/12P7Z1 A61B17/12P7Z5 A61F2/01 A61L31/12D10 A61M25/10 B32B27/12 K61B17/00E1C K61B17/00N8 K61B17/00P5 K61B17/00P5B K61B17/00P5E K61B17/00P5F K61B17/00P5G K61B17/00P5H K61B17/00P5K K61B17/00P5L K61B17/00P5R K61B17/00P5W K61B17/00S12 K61B17/08A K61B17/122 K61B17/12P2 K61B17/12P2D K61M210/12B K61M25/10Z5

US class: 1/1 128/887 128/898 604/107 606/108 606/119 606/119P 606/142 606/151 606/151S 606/194 606/194P 606/195 606/198 606/200 606/200P 606/200S 606/213 606/213P 606/216 623/1.11 623/1.12 623/1.120P 623/11.1

Classification Explorer

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Abstract:
Source: US2002111647A Disclosed is an adjustable occlusion device for use in a body lumen such as the left atrial appendage. The occlusion device is removably carried by a deployment catheter. The device may be enlarged or reduced to facilitate optimal placement or removal. Methods are also disclosed.

0) US2009105722A – DEVICES AND METHODS FOR EMBOLUS REMOVAL DURING ...

2) Family number: 43179026 (US2009105722A) © PatBase

Title: DEVICES AND METHODS FOR EMBOLUS REMOVAL DURING ACUTE ISCHEMIC STROKE

Priority:

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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 TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

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European class: A61B17/12P A61B17/12P5B1S A61B17/12P7C A61B17/221 A61B17/3207 A61B17/3207E A61F2/01 A61F2/01D A61F2/82 A61F2/915 A61M2/500S1 A61M2/509 A61M25/00G A61M25/00R A61M25/09 A61M25/09B1 A61M25/10 A61M25/10G A61M29/02 A61M39/06D A61M39/10 K61B17/00E3G4C K61B17/00K K61B17/00S12 K61B17/00S4P K61B17/221 K61B17/221C K61B17/221P K61B17/22A K61B17/22G K61B17/22G1 K61B17/22L K61B17/22S K61B17/22T K61B17/3207 K61B17/3207S K61B19/54P K61F2/01D K61F2/91 K61F2/915G2 K61F250/00W1 K61M211/52 K61M25/00R3 K61M25/00S1C K61M25/01M K61M25/10Z20 K61M25/10Z23 K61M25/10Z24 K61M39/02T16

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Abstract:
Source: US2009105722A Devices, methods, and systems facilitate and enable treatment of ischemic stroke. More specifically, a tethered basket−like system operates in conjunction with a microcatheter system, to provide arterial support and capture emboli.

0) US2012089047A – CRYOABLATION APPARATUSES, SYSTEMS, AND METHODS ...

3) Family number: 50623646 (US2012089047A) © PatBase

Title: CRYOABLATION APPARATUSES, SYSTEMS, AND METHODS FOR RENAL NEUROMODULATION

Priority:

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JP20150228956 20151124 EP20110779061 20111025 JP20130536748T 20111025
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Family:

Publication number	Publication date	Application number	Application date
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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 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 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

International class (IPC 8–9): A61B A61B17/00 A61B17/22 A61B17/34 A61B18/00 A61B18/02 A61B18/04 A61B18/08 A61B18/10 A61B18/12 A61B18/14 A61B18/18 A61B5/00 A61B5/026 A61B5/04 A61B5/05 A61F7/00 A61F7/12 A61L29/02 A61L29/04 A61M25/00 A61M25/01 A61M25/088 A61M25/09 A61M29/00 A61M31/00 A61N1/00 A61N1/04 A61N1/06 A61N1/18 A61N1/32 A61N1/36 A61N1/372 B65B3/04 C09K5/04 F17C5/02 (Advanced/Invention); A61B17/00 A61B18/00 A61B18/04 A61B18/08 A61B18/14 A61B18/18 A61F7/00 A61M25/00 A61M25/01 A61N1/06 A61N1/32 (Advanced/Non–invention); A61B (Subclass/Invention)

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Abstract:
Source: US2012089047A Catheter apparatuses, systems, and methods for cryogenically modulating neural structures of the renal plexus by intravascular access are disclosed herein. One aspect of the present application, for example, is directed to apparatuses, systems, and methods that incorporate a catheter treatment device

comprising an elongated shaft. The elongated shaft is sized and configured to deliver a cryo−applicator to a renal artery via an intravascular path. Cryogenic renal neuromodulation may be achieved via application of cryogenic temperatures to modulate neural fibers that contribute to renal function, or of vascular structures that feed or perfuse the neural fibers.

0) US2014260928A – METHODS OF USING NON–CYLINDRICAL MANDRELS

4) Family number: 56024119 (US2014260928A) © PatBase

Title: METHODS OF USING NON–CYLINDRICAL MANDRELS

Priority:

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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

International class (IPC 8–9): A61B17/00 A61B17/08 A61B17/12 A61B17/22 A61B17/221 A61B17/3205 A61B17/3207 A61B19/00 A61F2/00 A61F2/01 A61F2/06 A61F2/86 A61M A61M1/00 A61M25/00 A61M25/10 A61M29/00 A61M39/00 B23B47/18 B23K101/04 B23K26/00 B23K26/02 B23K26/06 B23K26/08 B23K26/10 B23K26/14 B23K26/16 B23K26/20 B23K26/38 B23K31/02 B23K37/047 B23P11/02 B23P13/04 B26F3/00 C22C1/00 D04C1/00 D04C1/06 D04C1/12 D04C3/40 E03B7/07 F27B9/06 F27D11/00 (Advanced/Invention); A61B17/00 A61B17/22 A61B19/00 A61F2/01 B23K101/04 C22F1/00 D06F75/00 (Advanced/Non–invention); A61M (Subclass/Invention)

CPC: Y10S623/92 Y10S623/921 A61B17/0057 A61B17/12118 A61B2017/12077 A61B2017/2217 A61F2/013 A61F2002/018 A61M29/00 A61B17/12163 A61B2017/00575 A61F2002/061 A61F2002/823 A61F2250/0023 A61F2210/0014 A61F2/07 A61B2017/00778 A61B2090/061 A61F2/01 A61B17/320725 A61F2/90 A61F2002/016 A61B17/12109 A61B17/12113 A61B17/12122 A61B17/12172 A61B17/22 A61B17/22031 A61B17/22032 A61B17/221 A61B17/32056 A61B17/3207 A61B90/39 A61B2017/00526 A61B2017/00592 A61B2017/00606 A61B2017/00641 A61B2017/22001 A61B2017/22002 A61B2017/22034 A61B2017/22035 A61B2017/22067 A61M1/0031 A61M1/008 A61M25/0023 A61M25/10 A61M2025/0042 A61M2202/06 A61M2207/10 A61M2210/12 B23K26/083 B23K26/14 B23K26/142 B23K26/1435 B23K26/146 B23K26/20 B23K26/38 B26F3/004 D04C1/06 D04C3/48 D10B2509/06 Y10T29/49913 Y10T29/49995 Y10T82/2521 Y10T137/8376 Y10T137/85954 Y10T156/10 A61F2002/011 D04C1/12 Y10T83/0596 Y10T156/1062 A61B2090/3966

US class: 1/1 110/230 137/560 137/563 148/95 156/148 156/256 156/60 219/121.64 219/121.65 219/121.66 219/121.67 219/121.68 219/121.69 219/121.7 219/121.71 219/121.72 219/121.73 219/121.78 219/121.79 219/121.8 219/121.81 219/121.82 219/121.83 219/121.84 219/385 219/386 219/388 219/391 228/101 228/180.22 228/256 228/262.31 228/262.9 228/47.1 228/5.1 228/57 264/400 269/47 29/508 29/557 306/110 306/114 306/115 306/159 604/523 606/108 606/110 606/114 606/115 606/127 606/128 606/159 606/194 606/200 606/213 623/1.11 623/1.15 623/1.16 623/1.17 623/1.18 623/1.19 623/1.2 623/1.21 623/1.22 623/1.53 623/920 623/921 82/127 83/54 87/11 87/33 87/34 87/8 87/9

Classification Explorer

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Forward Citations: WO16154632, WO16125018, WO16118420, WO16109586, US9668890, US9655633, US9629635, US9597087, US9592068, US9504552, US9492174, US9468359, US9433427, US9358140, US9320624, US9314324, US9308123, US9295473,

US9259337, US9198670, US9179995, US9179931, US9175426, US9156235, US9119656, US9078658, US9034007, US8932321, US8932320, US8910555, US8904914, US8895891, US8882797, US8872068, US8870910, US8870901, US8869670, US8866049, US8863631, US8859934, US8852227, US8845679, US8845678, US8828045, US8816247, US8813625, US8803030, US8795330, US8790365, US8789452, US8784446, US8783151, US2015359297, US2015351786, US2015297240, US2015080952, US2015025614, US2014090549, US2014052061, US2013282105, US2013232938, US2013138139, US2012116440, EP3148481, EP3148481, CN105312456,

Abstract:
Source: US2014260928A Methods of forming a structure for treating a vessel include providing a mandrel and braiding a plurality of filaments around the mandrel. The mandrel may include a strand having a longitudinal axis and a plurality of balls coupled to the strand along the longitudinal axis. Pairs of the plurality of balls may be spaced along the longitudinal axis. Braiding the plurality of filaments around the mandrel may include, during braiding, forming a plurality of bulbs around the plurality of balls and forming necks between pairs of the plurality of balls. The methods may include, after braiding the plurality of filaments, heat treating (e.g., shape setting) the plurality of filaments on the mandrel. Portions of the braided plurality of filaments may be secured to the mandrel, for example using bangles, wire, and/or adhesive.

0) US2014216258A – CONTACTORS, CARTRIDGES, COMPONENTS, SYSTEMS, AN...

101) Family number: 53207195 (US2014216258A) © PatBase

Title: CONTACTORS, CARTRIDGES, COMPONENTS, SYSTEMS, AND RELATED METHODS

Priority: US20110533434P 20110912 US20120697799 20120912 WO2012US54758 20120912

Family:

Publication number	Publication date	Application number	Application date
AU2012308799 AA	20130321	AU20120308799	20120912
CN103826729 A	20140528	CN201280044060	20120912
EP2755746 A2	20140723	EP20120832053	20120912
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JP2015508322 T2	20150319	JP20140529975T	20120912
KR20140079404 A	20140626	KR20147009741	20120912
US2014216258 AA	20140807	US20120697799	20120912
WO13039971 A2	20130321	WO2012US54758	20120912
WO13039971 A3	20130510	WO2012US54758	20120912

Probable Assignee: 3M INNOVATIVE PROPERTES CO

Assignee(s):(std)**:** BOULDIN ELMER WAYNE JR ; CELGARD LLC ; TAYLOR GARETH P ; BOULDIN JR ELMER WAYNE ; 3M INNOVATIVE PROPERTIES CO

Assignee(s): BANK OF AMERICA NA ADMINISTRATIVE AGENT AS ; 3M INNOVATIVE PROPERTES CO ; CELGARD LLC F K A CELGARD INC

Inventor(s):(std)**:** BOULDIN ELMER WAYNE JR ; BOULDIN JR ELMER WAYNE ; TAYLOR GARETH P

Agent(s): IP GATEWAY PATENT AND TRADEMARK ATTORNEYS PTY LTD; IP GATEWAY PATENT AND TRADE MARK ATTORNEYS PTY LTD; FPA PATENT ATTORNEYS PTY LTD; BRAUN ANDRE JR; YAMADA YUKI; HIROSE HAJIME; MORI TETSUYA; HAMMER ROBERT H III 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 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 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

International class (IPC 8–9): B01D19/00 B01D27/08 B01D35/30 B01D53/22 B01D61/00 B01D63/00 B01D63/02 (Advanced/Invention)

CPC: B01D63/025 B01D63/043 B01D2313/02 B01D2313/20 B01D19/0031 B01D19/00 B01D61/00 Y10T29/49826

US class: 29/428 96/6

Classification Explorer

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Forward Citations: CN105080365, CN105080365,

Abstract:
Source: US2014216258A The instant application relates to a high pressure spiral–type hollow fiber membrane fabric–containing module or contactor, comprising: a high pressure module housing or vessel; a pair of end caps; liquid end ports and at least one gas port; and at least one membrane cartridge, wherein each module or contactor has one or more shims, spacers, protrusions, and/or the like on a cartridge shell exterior, on a module housing interior, on the cartridge shell exterior and on the module housing interior, and/or between the shell and

the housing.

0) US2005020974A – STEERABLE DISTAL SUPPORT SYSTEM

102) Family number: 30646701 (US2005020974A) © PatBase

Title: STEERABLE DISTAL SUPPORT SYSTEM

Priority: US20000228012P 20000823 US20010935534 20010822 WO2005US20296 20050608 US20040864075 20040608

Family:

Publication number	Publication date	Application number	Application date
EP1768738 A2	20070404	EP20050760427	20050608
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WO05120627 A3	20061019	WO2005US20296	20050608

Probable Assignee: BOSTON SCIENTIFIC SCIMED INC

Assignee(s):(std)**:** NORBORN MEDICAL INC ; NORIEGA GERARDO ; REVASCULAR THERAPEUTICS INC ; SUDARIA RUDOLFO

Assignee(s): BOSTON SCIENTIFIC SCIMED INC

Inventor(s):(std)**:** NORIEGA GERARDO ; SUDARIA RUDOLFO ; SUNDARIA RUDOLFO

Agent(s): 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 KP KR KZ LC LI LK LR LS LT LU LV 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

International class (IPC 8–9): A61B17/00 A61M25/00 A61M25/01 A61M31/00 A61M37/00 (Advanced/Invention)

International class (IPC 1–7): A61M31/00

CPC: A61M25/0054 A61M25/0108 A61M25/0138 A61M25/0147 A61M25/04

European class: A61M25/00S3 A61M25/01C10C A61M25/01C10K K61M25/01C1 K61M25/04

US class: 604/95.04 604/95.040P 604/95.05 606/194

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Abstract:
Source: US2005020974A A steerable distal support system for accessing stenosis, partial occlusions, or complete occlusions within a body lumen. The steerable distal support system generally includes an elongate member that comprises a proximal portion, a more flexible intermediate portion and a deflectable distal tip. The deflectable distal tip is at a distal end of the elongate body to facilitate directionality and positioning of the steerable distal support system to the target site. Optionally, an expandable centering assembly may be disposed on the steerable support assembly to center and anchor the steerable support assembly within the body lumen.

0) US2005075584A – MINIMALLY INVASIVE VALVE REPLACEMENT SYSTEM

103) Family number: 31873383 (US2005075584A) © PatBase

Title: MINIMALLY INVASIVE VALVE REPLACEMENT SYSTEM

Priority:

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AU20100202464	20100611	CA2006616841	20060726	CA20102616841	20100728
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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: MEDTRONIC 3F THERAPEUTICS INC

Assignee(s):(std)**:** BERGHEIM BJARNE ; BIANCUCCI BRIAN ; CALI DOUGLAS S ; BICER DEMETRIO ; DUMONTELLE JEFFREY P ; CUEVAS WALTER ; DUMONTELLE JEFF ; MALEWICZ ANDRZEJ M ; ELIZONDO DAVID R ; MEDTRONIC 3F THERAPEUTICS INC ; 3F THERAPEUTICS INC ; ARTOF JASON ; ATS MED INC ; ELIZONDO DAVID ; MYERS KEITH E ; NGUYEN TUOR TAN ; SVANIDZE OLEG ; NGUYEN TUOC T ; NITZ MARC R ; WESTON MATTHEW W ; MEDTRONIC ATS MEDICAL INC ; MEDTRONIC ATS MEDCINES INC

Assignee(s): NGUYEN TUOC TAN ; ATS MEDICAL INC ; MEDTRONIC 3F THERAPEUTICS INC LAKE FOREST

Inventor(s):(std)**:** A M MALEWITZ ; ALEXANDER D R ; ARTOF JASON ; CALI DOUGLAS S ; CUEVAS WALTER ; D R ALEXANDER ; BIANCUCCI BRIAN ; BJARNE BERGHEIM ; DUMONTELLE JEFFREY P ; ELIZONDO DAVID R ; K E MYERS ; M W WESTON ; MALEWITZ A M ; MYERS KEITH E ; NGUYEN TUOR TAN ; NITZ MARC R ; SVANIDZE OLEG ; WESTON M W ; WESTON MATTHEW W ; NGUYEN TUOC TAN ; NGUYEN TUOC T ; MALEWICZ ANDRZEJ M ; ELIZONDO DAVID ; DUMONTELLE JEFF ; CUEVES WALBERTO ; BICER DEMETRIO ; BERGHEIM III BJARNE ; BERGHEIM BJARNE ; MYERS K E

Inventor(s): MYERS KEITH ; DEMETRIO BICER ; NGUYEN TUOC ; WALTER CUEVAS ; MWWESTON ; KEMYERS ; JEFF DUMONTELLE ; CALI DOUGLAS ; DR ALEXANDER ; DUMONTELLE JEFFREY ; BERGHEIM BJARNE LAGUNA HILLS ; AMMALEWITZ

Agent(s): WRAYS; FB RICE; SMART AND BIGGAR; SIM AND MCBURNEY; ZIMMERMANN AND PARTNER PATENTANWAELTE MBB; ZIMMERMANN AND PARTNER PATENTANWAELTE MBB; NEEDLE JACQUELINE ET AL; NEEDLE JACQUELINE; MILLER JAMES LIONEL WOOLVERTON ET AL; ZIMMERMANN AND PARTNER; INO SARI; KURASAWA ICHIRO; MATSUSHITA MITSURU; DESHIMARU TAKESHI; KUMAKURA YOSHIO; JONES DAY; OPPENHEIMER WOLFF AND DONNELLY LLP; BARBARA A; MIKE; JEFFREY J; WRIGLEY BARBARA A

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 TH TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): A61B17/00 A61B17/22 A61B17/221 A61B17/34 A61B17/94 A61B19/00 A61F2/01 A61F2/04 A61F2/06 A61F2/24 A61F2/76 A61F2/84 A61F2/86 A61F2/90 A61F2/95 A61L27/04 A61L27/06 A61M25/00 A61M29/00 A61M29/02 (Advanced/Invention); A61B17/00 A61B17/04 A61B17/068 A61B17/34 A61B8/12 A61F11/00 A61F2/01 A61F2/24 A61F2/91 (Advanced/Non–invention); A61B17/00 A61B17/22 A61B17/34 A61B17/94 A61B19/00 A61F2/01 A61F2/04 A61F2/06 A61F2/24 A61F2/50 A61F2/82 A61L27/00 A61M25/00 A61M29/00 A61M29/02 (Core/Invention); A61B17/00 A61B17/04 A61B17/068 A61B17/34 A61B8/12 A61F2/24 (Core/Non–invention); A61F (Subclass/Invention)

International class (IPC 1–7): A61B17/00 A61F2/04 A61F2/06 A61F2/24 A61F2/76 A61M29/00

CPC: A61F2230/001 A61F2250/0039 A61B2017/22097 A61F2002/9522 A61B8/445 A61B17/04 A61B17/068 A61B17/3468 A61B2017/00243 A61B2017/00247 A61B2018/00392 A61F2/2412 A61F2230/0065 A61F2230/0069 A61F2230/008 A61F2/91 A61F2/2436 A61F2/2496 A61F2210/0019 A61F2210/0028 A61F2250/0059 A61F2/2427 A61F2/01 A61F2220/0008 A61F2220/0016 A61F2220/005 A61F2220/0066 A61F2/243 A61F2/2439 A61F2/013 A61F2/2433 A61B5/0066 A61B5/0084 A61B5/0086 A61B8/12 A61F2/2415 A61F2250/0069 A61F2220/0075 A61F2/24 A61F2002/018 A61F2230/0006 A61F2230/0008 A61F2230/0067 A61F2250/0003 A61F2230/0013 A61F2/2418 A61F2230/00 A61F2230/0054

European class: A61B8/44N2 A61F2/01 A61F2/01D A61F2/06S6N2 A61F2/24C A61F2/24D A61F2/24D6 A61F2/24H2 A61F2/24H2B A61F2/24H4 A61F2/24H6 K61B17/00E1C K61B17/00E1C2 K61B17/04 K61B17/068 K61B17/34J K61B18/00F6A8 K61B5/00P12B K61B5/00P12B2 K61B5/00P1C K61B8/12 K61F2/01D K61F2/24D2 K61F2/24D6 K61F2/24Z K61F2/91 K61F210/00D2 K61F210/00D4C K61F250/00W1

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Abstract:
Source: US2005075584A Methods and systems for minimally invasive replacement of a valve. The system

includes a collapsible valve and anchoring structure, devices and methods for expanding the valve anchoring structure, adhesive means to seal the valve to the surrounding tissue, a catheter–based valve sizing and delivery system, native valve removal means, and a temporary valve and filter assembly to facilitate removal of debris material. The valve assembly comprises a valve and anchoring structure for the valve, dimensioned to fit substantially within the valve sinus.

0) US5379603A – METHOD AND APPARATUS FOR PRECHILLING TAP WATER ...

104) Family number: 8462379 (US5379603A) © PatBase

Title: Method and apparatus for prechilling tap water in ice machines

Priority: CA19942120110 19940328 US19930039844 19930330 US19940353668 19941212 US19940218348 19940328

Family:

Publication number	Publication date	Application number	Application date
AT147152 E	19970115	AT19940104931T	19940329
AU199459100 A1	19941006	AU19940059100	19940329
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CA2120110 C	19980616	CA19942120110	19940328
DE69401290 D1	19970213	DE19946001290	19940329
DE69401290 T2	19970710	DE19946001290T	19940329
EP0618413 A1	19941005	EP19940104931	19940329
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ES2098810 T3	19970501	ES19940104931T	19940329
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US5379603 A	19950110	US19940218348	19940328
US5555734 A	19960917	US19940353668	19941212

Probable Assignee: MAXIMICER LLC A LIABILITY OF TEXAS CORP LTD

Assignee(s):(std): DANIEL LEE WELCH ; JEFF LINDEN LOVE ; LOVE JEFF L ; LOVE JEFF LINDEN ; WELCH DANIEL L ; MAXIMICER ; WELCH DANIEL LEE

Assignee(s): MAXIMICER LLC A LIABILITY OF TEXAS CORP LTD ; MAXIMICER VENTURES LTD A TEXAS PARTNERSHIP LTD ; LOVE JEFF LINDEN LEANDER TEX US ; WELCH DANIEL LEE TUCSON ARIZ US ; MAXIMICER VENTURES LTD ; MAXIMICER LLC A LTD

Inventor(s):(std): LOVE JEFF L ; LOVE JEFF LINDEN ; WELCH DANIEL L ; WELCH DANIEL LEE

Inventor(s): WELCH DANIEL LEE TUCSON ARIZ ; WELCH DANIEL LEE TUCSON ARIZ US ; LOVE JEFF LINDEN LEANDER TEX ; LOVE JEFF LINDEN LEANDER TEX US ; DANIEL LEE WELCH ; JEFF LINDEN LOVE

Agent(s): MIDDLETONS LAWYERS; MACRAE AND CO

Designated states: AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

International class (IPC 8–9): E03C1/02 F25C1/00 F28D7/02 (Advanced/Invention); F25C1/00 F28D7/00 (Core/Invention)

International class (IPC 1–7): E03C1/02 E03C1/044 F25C1/0 F25C1/00 F25C1/12 F25D15/00 F25D3/00 F25D31/00 F25D9/00 F28D21/00 F28D7/00 F28D7/02 F28D7/2

CPC: F25C1/00 F28D7/024

European class: F25C1/00 F28D7/02D

US class: 165/134.1 165/163 285/53 62/348 62/66

Classification Explorer

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Forward Citations: WO9834078, WO0198719, US9127869, US8534086, US8505316, US6635414, US6196296, US5987900, US5979165, US5749242, US2013145793, US2012227435, US2012137719, US2011023522, US2009211294, DE102007062878, CN101871720, AU672355,

Abstract:
Source: US5379603A Prechilling the tap water with the cold waste water from an ice machine is achieved by using an insulated, elongated casing, which encloses a reservoir housing a heat exchanger made of a relatively long tubing of copper to provide a relatively long path of travel for the tap water. The heat exchanger is in the form of a coil followed by a substantially straight tube within and surrounded by the coil's turns. A hollow member, closed at one end, is spaced from the straight tube. The coil's turns surround the hollow member and the straight tube. Preferably, the hollow member is mounted over and is spaced from the straight tube to form there between an elongated chamber. In use, the tap water flows downwardly in the coil and upwardly through the straight tube. The cold waste water flows through the elongated chamber into the reservoir, thereby progressively and continuously increasing the temperature of the waste water and correspondingly decreasing the tap water's temperature.

0) US2004097804A – METHOD AND SYSTEM FOR MOUNTING AN MPS SENSOR ON...

105) Family number: 30573733 (US2004097804A) © PatBase

Title: METHOD AND SYSTEM FOR MOUNTING AN MPS SENSOR ON A CATHETER

Priority:
EP20030811470 20031111 IL20050168153 20050420 JP20040570327 20031111
US20020298358 20021118 US20030408156 20030407 US20100982592 20101230
US20030298358 20031118 US20140485318 20140912 US20150808892 20150724
WO2003IL00940 20031111

Family:

Publication number	Publication date	Application number	Application date
AU2003276673 AA	20040615	AU20030276673	20031111
AU2003276673 AH	20040615	AU20030276673	20031111
CA2504613 AA	20050502	CA20032504613	20031111
CA2504613 C	20120131	CA20032504613	20031111
DE60347235 D1	20150226	DE20036047235	20031111
EP1585434 A2	20051019	EP20030811470	20031111
EP1585434 A4	20090401	EP20030811470	20031111
EP1585434 B1	20150114	EP20030811470	20031111
IL168153 A1	20120229	IL20030168153	20031111
JP2006516203 T2	20060629	JP20040570327T	20031111
JP2011245328 A2	20111208	JP20110168601	20110801
JP5503604 B2	20140528	JP20110168601	20110801
US2004097804 AA	20040520	US20030408156	20030407
US2011118592 AA	20110519	US20100982592	20101230
US2015005625 AA	20150101	US20140485318	20140912
US2016022958 AA	20160128	US20150808892	20150724
US7881769 BB	20110201	US20030408156	20030407
US8862204 BB	20141014	US20100982592	20101230
US9375549 BB	20160628	US20140485318	20140912
WO04045363 A2	20040603	WO2003IL00940	20031111
WO04045363 A3	20060413	WO2003IL00940	20031111

Probable Assignee: MEDIGUIDE LTD

Assignee(s):(std)**:** MEDIGUIDE LTD ; SELA RAN ; SOBE LIOR

Inventor(s):(std)**:** SOBE LIOR ; SELA RAN ; LIOR SOBE

Agent(s): SMITHS IP; BLAKE CASSELS AND GRAYDON LLP; KRAMER BARSKE SCHMIDTCHEN PATENTANWAELTE PARTG MBB; KRAMER BARSKE SCHMIDTCHEN PATENTANWAELTE PARTG MBB; BOROCHOV KORAKH AND CO; SUGIMURA KOSAKU; IWASA YOSHIYUKI; DYKEMA GOSSETT PLLC; DYKEMA GOSSET PLLC

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 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

International class (IPC 8–9): A61B17/22 A61B17/3207 A61B19/00 A61B5/05 A61B5/06 A61F2/82 A61F2/84 A61F2/95 A61M25/00 A61M25/01 A61M25/095 A61M25/098 A61M25/14 (Advanced/Invention); A61B17/00 A61B18/14 A61B18/24 A61B19/00 A61M29/02 A61N7/02 (Advanced/Non–invention); A61B17/22 A61B19/00 A61B5/06 A61F2/82 A61M25/00 (Core/Invention); A61B17/00 A61B19/00 A61M29/02 (Core/Non–invention)

International class (IPC 1–7): A61B1/00 A61B5/05 A61B5/06 A61M25/095 A61M25/098

CPC: A61B18/1492 A61B18/24 A61M29/02 A61N7/022 A61M25/01 A61M2025/0166 A61B2034/256 A61B5/062 A61B17/3207 A61B2017/00252 A61M25/104 A61B2034/2072

A61B19/5244 A61B2019/5251 A61B2019/5272 A61B34/20 A61B2034/2051

European class: A61B17/3207 A61B19/52H12 K61B17/00E1C2B K61B18/14V K61B18/24 K61B19/52H12B4 K61B19/52H12F K61B19/56F K61M25/10P K61M29/02 K61N7/02C

US class: 1/1 600/407 600/424 600/424P 600/479 600/481 600/488 604/508 604/510 604/522 604/528

Classification Explorer

Cited documents: WO9959479 A1, WO9939624 A1, WO9852637 A1, WO9810303 A1, WO9729684 A1, WO9605768 A1, WO0173461 A2, WO0016684 A1, WO0010456 A1, US8862204 BB, US7881769 BB, US6690963 BB, US6689049 BA, US6618612 BA, US6521107 BB, US6509521 BA, US6427079 BA, US6298259 BA, US6253770 BA, US6251107 BA, US6233476 BA, US6231516 BA, US6203493 BA, US6179811 BA, US6179811 B1, US6035856 A, US5928248 A, US5916241 A, US5897529 A, US5873835 A, US5840024 A, US5830222 A, US5646525 A, US5588432 A, US5489271 A, US4484586 A, US2007225641 AA, US2004097804 AA, US2002143371 AA, US2002143317 AA, US2002128537 AA, US2002099364 AA, US2002016589 AA, JP8155031 A2, JP8131545 A2, JP7111969 A2, JP6142106 A2, JP6022938 A2, JP5285222 A2, JP5177001 A2, JP4109962 A2, JP2023407 A2, JP2002526188 T2, JP2002516587 T2, JP2002515813 T2, JP2002035132 A2, JP2000506409 T2, JP2000500057 T2, JP11221287 A2, JP11188112 A2, JP10151115 A2,

Forward Citations: WO15143421, WO14112856, WO14092570, WO14089195, WO12018435, WO11135014, WO10080304, WO10053916, WO10053916, WO10028508, WO08139232, WO08139232, WO07080569, WO07080569, WO07079352, WO07079352, WO06074510, WO06031765, WO06031765, USD754357, USD724745, US9668639, US9661996, US9661991, US9659374, US9649477, US9649048, US9642514, US9636031, US9610428, US9607395, US9603668, US9603547, US9603506, US9597008, US9595111, US9585566, US9575140, US9572519, US9572480, US9554716, US9554691, US9549740, US9549685, US9549666, US9532724, US9530219, US9526440, US9521961, US9521946, US9492097, US9480416, US9474464, US9468397, US9468362, US9459087, US9457167, US9456827, US9456766, US9445734, US9439735, US9439653, US9439564, US9415188, US9399121, US9398892, US9380940, US9375549, US9375141, US9370649, US9364640, US9364170, US9351750, US9345422, US9339206, US9314191, US9308361, US9307931, US9302099, US9301713, US9271803, US9265443, US9265407, US9259290, US9259142, US9257220, US9241834, US9237936, US9233225, US9232985, US9226800, US9226689, US9226688, US9220879, US9220461, US9211403, US9211107, US9179823, US9167961, US9155492, US9144664, US9129359, US9125578, US9117258, US9113813, US9107574, US9101384, US9089261, US9089258, US9060704, US9055965, US9055881, US9050108, US9042625, US9002435, US8971994, US8961495, US8961398, US8951225, US8942784, US8932276, US8932207, US8909322, US8905922, US8905920, US8894614, US8886288, US8870893, US8864787, US8862204, US8858586, US8858455, US8852143, US8849382, US8842898, US8828041, US8828028, US8825133, US8801693, US8784336, US8781555, US8777926, US8774907, US8768433, US8764729, US8764726, US8764725, US8764709, US8764683, US8747389, US8721591, US8717428, US8717039, US8715195, US8715169, US8702626, US8698638, US8696685, US8696548, US8690762, US8663088, US8636718, US8632461, US8614768, US8611984, US8611983, US8594799, US8529450, US8512256, US8494246, US8486735, US8478382, US8473032, US8467589, US8452068, US8442618, US8437833, US8428328, US8412311, US8396532, US8369930, US8358462, US8239003, US8232798, US8218847, US8218846, US8204574, US8187223, US8066759, US8058593, US8046048, US8016749, US7998062, US7969659, US7957789, US7871369, US7840254, US7840252, US7838806, US7812290, US7805269, US7778688, US7751868, US7722565, US7720528, US7697973, US7595469, US7524282, US7423496, US7386339, US7343195, US7304277, US7279664, US2015272679, US2015005625, US2014012130, US2013237810, US2013166011, US2013079628, US2012217979, US2012130231, US2011237897, US2011201921, US2011118592, US2011112512, US2011060214, US2011054308, US2011021985, US2010317962, US2010312096, US2010312094, US2010185083, US2010160772, US2010130852, US2010130851, US2010069784, US2010063383, US2010049062, US2010042046, US2010034449, US2010008555, US2009326368, US2009326321, US2009319025, US2009318759, US2009187064, US2009182224, US2009180197, US2009156951, US2008290958, US2008287908, US2008262297, US2008255446, US2008204012, US2008167639, US2008132938, US2008125626, US2008118135, US2008071215, US2008071170, US2008061788, US2007293727, US2007287901, US2007213809, US2007173861, US2007167787, US2007164900, US2007135789, US2007106151, US2007063687, US2007062933, US2007055128, US2007049789, US2007032723, US2007023424, US2006287705, US2006189867, US2006184016, US2006178576, US2006173291, US2006173269, US2006170417, US2006146172, US2006122497, US2006058647, US2005192496,

US2005182319, US2005107688, TWI467201, JP5906305, JP5685609, JP2015509781, JP2014524753, JP2013116327, JP2009519084, GR20070100291, EP3075309, EP3020441, EP2915498, EP2896383, EP2846707, EP2700355, EP2574173, EP2247236, EP1838215, EP1838215, EP1761189, EP1761189, DE102006002898, CN104797210, CN104706390, CN103037759, CN102650662, AU2011247600,

Abstract:
Source: US2004097804A Catheter for performing a medical operation on an organic lumen, the catheter including an elongated member, a medical operational element located at a distal end of the elongated member, an electromagnetic field detector located at the distal end, and a wiring for coupling the electromagnetic field detector with a medical positioning system, wherein the medical positioning system determines the position and orientation of the distal end.

0) US2016235337A – ANGIOPLASTY GUIDEWIRE

106) Family number: 63049963 (US2016235337A) © PatBase

Title: ANGIOPLASTY GUIDEWIRE

Priority: JP20160025663 20160215 US20150623350 20150216

Family:

Publication number	Publication date	Application number	Application date
AU2016200819 AA	20160901	AU20160200819	20160209
CA2920863 AA	20160816	CA20162920863	20160212
CN105879197 A	20160824	CN201610086002	20160215
EP3056161 A1	20160817	EP20160155632	20160215
IL243993 A0	20160731	IL20160243993	20160207
JP2016150255 A2	20160822	JP20160025663	20160215
US2016235337 AA	20160818	US20150623350	20150216

Probable Assignee: CORDIS CORP

Assignee(s):(std)**:** BIOSENSE WEBSTER ISRAEL LTD ; VADIM GLINER ; YARON EPHRATH ; SHAI SHIMON BARD ; CORDIS CORP ; ANDRES CLAUDIO ALTMANN ; ASSAF GOVARI

Assignee(s): BARD SHAI SHIMON ; ALTMANN ANDRES CLAUDIO ; GLINER VADIM ; EPHRATH YARON ; GOVARI ASSAF

Inventor(s):(std)**:** ALTMANN ANDRES C ; ALTMANN ANDRES CLAUDIO ; ANDRES CLAUDIO ALTMANN ; ASSAF GOVARI ; BARD SHAI SHIMON ; EPHRATH YARON ; GLINER VADIM ; GOVARI ASSAF ; SHAI SHIMON BARD ; VADIM GLINER ; YARON EPHRATH

Agent(s): FISHER ADAMS KELLY CALLINANS; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; CARPMAELS AND RANSFORD LLP; KATO MASANOBU

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

International class (IPC 8–9): A61B A61B34/20 A61B5/00 A61B5/06 A61M25/01 A61M25/09 A61M25/095 (Advanced/Invention); A61B (Subclass/Invention)

CPC: A61B5/062 A61B5/6851 A61M2025/09083 A61M2207/00 A61B2034/2051 A61M2025/0166 A61M2025/09108 A61M2025/09175 A61B34/20 A61M25/09

US class: 600/424

Classification Explorer

Cited documents: WO10022370 A1, US8702626 BA, US8473030 BB, US8372017 BB, US6690963 BB, US5372144 A, US2014046216 AA, US2013296692 AA, US2013072943 AA, US2011130750 AA, US2009326368 AA, US2007021731 AA, US2006074442 AA, JP2014042645 A2,

Abstract:
Source: US2016235337A A guidewire, consisting of a hollow tube, containing a longitudinal lumen and having a spiral channel cut into the tube, and having a distal end. The guidewire has an elongate flexible core positioned within the longitudinal lumen. The guidewire also has a conductive coil, wound around the core at a location within the lumen in proximity to the distal end, that is coupled to output a signal in response to a magnetic field applied to the guidewire.

107) Family number: 19173066 (US3906937A) © PatBase

Title: Blood pressure cuff and bladder and apparatus embodying the same

Priority: GB19730040076 19730823 US19720300507 19721025 US19740432191 19740110 US19720305512 19721110 US19740443130 19740215

Family:

Publication number	Publication date	Application number	Application date
CH572732 A	19760227	CH19730012350	19730827
CH576780 A	19760630	CH19730013050	19730910
DE2343183 A1	19740509	DE19732343183	19730827
DE2343183 B2	19771229	DE19732343183	19730827
DE2343183 C3	19780831	DE19732343183	19730827
DE2346265 A1	19740509	DE19732346265	19730914
DE2346265 B2	19781207	DE19732346265	19730914
DE7331131 U	19760729	DE19730331131U	19730827
FR2204388 A1	19740524	FR19730030836	19730824
FR2204388 B1	19781110	FR19730030836	19730824
FR2204389 A1	19740524	FR19730032204	19730906
FR2204389 B1	19770916	FR19730032204	19730906
GB1400957 A	19750716	GB19730037444	19730807
GB1441831 A	19760707	GB19730040076	19730823
GB1441832 A	19760707	GB19760003559	19730823
HK25176 A	19760507	HK19760000251	19760429
IL42968 A0	19731128	IL19730042968	19730813
IL42968 A1	19760130	IL19730042968	19730813
IL43108 A0	19731128	IL19730043108	19730829
IL43108 A1	19760630	IL19730043108	19730829
IT1009040 A	19761210	IT19730069691	19730910
IT994660 A	19751020	IT19730069521	19730823
JP49087175 A2	19740821	JP19730095064	19730824
JP49096581 A2	19740912	JP19730103694	19730913
NL7311775 A	19740429	NL19730011775	19730827
NL7311775 A1	19740429	NL19730011775	19730827
NL7312605 A	19740514	NL19730012605	19730912
NL7312605 A1	19740514	NL19730012605	19730912
US3906937 A	19750923	US19740443130	19740215
US3906939 A	19750923	US19740432191	19740110

Probable Assignee: PARA MEDICAL INSTR CORP

Assignee(s):(std)**:** ARONSON T ; PARA MEDICAL INSTR CORP ; THEODORE ARNOSON

Assignee(s): MATSUSHITA ELECTRIC WORKS LTD ; PARA MEDICAL INSTRUMENT CORP ; THEODORE DUNCAN SMITH ; THEODORE ARONSON ; ARONSON THEODORE ; ARONSON THEODORE FORT LAUDERDALE FLA V ST A ; ARONSON THEODORE US

Inventor(s):(std)**:** ARONSON THEODORE

Inventor(s): ARONSON THEODORE FORT LAUDERDALE FLA V ST A

Agent(s): AE MULFORD

International class (IPC 8–9)**:** A61B17/135 A61B5/02 A61B5/022 A61B5/0235 G01L7/00 (Advanced/Invention); A61B17/12 A61B5/02 A61B5/022 G01L7/00 (Core/Invention)

International class (IPC 1–7): A61B5/02

CPC: A61B5/02233 A61B17/135 A61B17/1355 A61B5/02141 A61B5/02208 A61B5/0235

European class: A61B17/135 A61B17/135B A61B5/021F A61B5/022A A61B5/022D A61B5/0235

US class: 128/2.05C 128/2.05G 600/493 600/499 606/202 D24/166

Classification Explorer

Cited documents: US598343 A, US3633567 A, US3623478 A, US3613668 A, US3557779 A, US3542011 A, US3315662 A, US3254671 A, US3229685 A, US2981251 A, US2753863 A, US2630796 A, US2076642 A, US2020469 A,

Forward Citations: WO9846144, WO9306782, WO8800448, WO07089194, WO07029408, WO03053238, WO0000153, WO0000153, WO0000153, USRE42754, USD643536, USD618358, USD608006, USD575871, USD549347, US9393027, US9387146, US9386928, US9364037, US9220422, US9205021, US9114052, US9107793, US9084713, US9072435, US9028419, US8992449, US8869801, US8740828, US8721575, US8652079, US8652057, US8632840, US8622942, US8597215, US8539647, US8535233, US8506508, US8235923, US8190236, US8162861, US8128584, US8114117, US8109892, US8105056, US8079970, US8070699, US8034007, US8029451, US8029450, US8021388, US8016779, US8016778, US7871387, US7780603, US7618375, US7568500, US7442175, US7226420, US7166077, US6783500, US6746406, US6725728, US6652461, US6551249, US6378552, US6258037, US6258036, US6213953, US5931853, US5911735, US5741295, US5733304, US5649954, US5607447, US5584853, US5578055, US5560365, US5556258, US5454831, US5439477, US5392781, US5312431, US5201758, US5172697, US4979953, US4896676, US4889132, US4862895, US4860761, US4771790, US4637394, US4635635, US4593692, US4572205, US4549550, US4465076, US4432373, US4399809, US4337778, US4300759, US4290434, US4261368, US4248215, US4211289, US4139000, US4106499, US4058117, US4050311, US4033337, US2016089036, US2013245672, US2013053708, US2011282222, US2011190644, US2011009785, US2010298724, US2010081975, US2009287096, US2009036785, US2008249444, US2008249443, US2008249442, US2008245361, US2008234615, US2008154140, US2008041457, US2007135742, US2006293600, US2006217618, US2006122518, US2005251052, US2005182331, US2004059233, JP62200303, JP61238226, JP61196707, JP61100401, JP60037306, JP49092693, JP2011072414, JP2006075436, JP2006075435, FR2507893, FR2350085, FR2350085, FR2313008, FR2313008, EP2498674, EP2151196, EP2123218, EP1593340, EP1560516, EP1089701, EP0984716, EP0984716, EP0136279, EP0069031,

Abstract:
Source: US3906937A A blood−pressure cuff comprises an elongated non−elastic cover having an inflatable portion in which is disposed an inflatable bladder. Means extends from the inflatable portion for fastening the cover when the inner surface of the inflatable portion is applied to a limb of the user preparatory to inflation of the bladder. An integral, prestressed resilient clip of spiral shape is freely disposed in the inflatable portion of the cover between the bladder and outer cover surface to impart its spiral shape to both the inflatable portion of the cover and the bladder therein. The inflatable bladder may have a plurality of contiguous chambers each in fluid communication with adjoining chambers and a single fluid inlet adapted to have fluid under pressure supplied to the chambers for inflating the chambers.

108) Family number: 31031593 (US2004074757A) © PatBase

Title: METHOD AND APPARATUS FOR PHASE CHANGE ENHANCEMENT

Priority:

CA20082689931	20080606	CA20172689931	20170302	EP20030768953	20031113
EP20040779401	20040728	CN200880101158	20080606	EP20120163481	20031113
US20020425820	20021113	US20030490615	20030728	JP20050507175	20031113
US20020401813P	20020807	JP20100112694	20031113	US20020425820P	20021113
JP20140193618	20031113	JP20160014007	20160128	US20030713591	20031113
US20030720802	20031124	US20050168239	20050628	US20060480294	20060630
US20070927812	20071030	US20070926922	20071029	US20070926680	20071029
US20030714683	20031113	US20030636303	20030807	US20040566307	20040728
US20050073935	20050307	US20030713617	20031113	US20030490615P	20030728
US20030713644	20031113	US20060566307	20060127	US20030518782P	20031110
US20070927823	20071030	US20070927879	20071030	US20070927907	20071030
US20080134986	20080606	US20070933525P	20070607	US20080135035	20080606
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US20120676597P	20120727	US20130819919P	20130506	US20130982022	20130726
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WO2009US53898	20090814	WO2003US24966	20030807	WO2003US37531	20031124
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US20160095696	20160411				

Family:

Publication number	Publication date	Application number	Application date
AU2003255244 AA	20040225	AU20030255244	20030807
AU2003291547 AA	20040603	AU20030291547	20031113
AU2003291547 AH	20040603	AU20030291547	20031113
AU2003294497 AA	20050629	AU20030294497	20031124
AU2012284251 AA	20130124	AU20120284251	20120713
BR112014001036 A2	20170214	BR20141101036	20120713
CA2506269 AA	20050513	CA20032506269	20031113
CA2506269 C	20120814	CA20032506269	20031113
CA2545526 AA	20060510	CA20032545526	20031124
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CA2689931 AA	20081218	CA20082689931	20080606
CA2689931 C	20170228	CA20082689931	20080606
CA2841743 AA	20140114	CA20122841743	20120713
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CN101658740 A	20100303	CN200910151361	20031113
CN101658740 B	20140604	CN200910151361	20031113
CN101765563 A	20100630	CN200880101158	20080606
CN101765563 B	20121024	CN200880101158	20080606
CN103553163 A	20140205	CN201210339322	20080606
CN103553163 B	20160525	CN201210339322	20080606
CN103781523 A	20140507	CN201280043609	20120713
CN1738668 A	20060222	CN200380108662	20031113
DE602004045880 D1	20141106	DE200460045880T	20040728
DE60349200 D1	20160908	DE20036049200	20031113

EP1562686 A2	20050817	EP20030768953	20031113	
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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 QA RO RS RU RW 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 YU ZA ZM ZW

International class (IPC 8–9): B01D1/00 B01D1/02 B01D1/04 B01D1/06 B01D1/22 B01D1/28 B01D1/30 B01D24/48 B01D29/01 B01D29/31 B01D29/50 B01D29/60 B01D29/66 B01D29/96 B01D3/00 B01D3/02 B01D3/04 B01D3/08 B01D3/10 B01D3/14 B01D3/28 B01D3/32 B01D3/34 B01D3/38 B01D3/42 B01D33/44 B01D35/12 B01D35/16 B01D35/22 B01D45/00 B01D45/08 B01D45/14 B01D5/00 B01D53/00 B67D1/00 B67D1/08 B67D7/08 C01D3/10 C02F1/00 C02F1/02 C02F1/04 C02F1/08 C02F1/16 C02F1/18 C02F1/20 C02F1/32 C02F1/46 C02F1/48 C02F1/68 C02F9/00 F01B29/10 F02C9/00 F02G1/043 F02G1/044 F02G1/053 F02G1/055 F02G1/06 F04B35/04 F04B49/03 F04B49/04 F04C19/00 F04C29/00 F04D1/12 F04D13/06 F04D29/00 F04F5/06 F04F99/00 F16K1/00 F16K15/00 F16K15/03 F16K17/00 F17D3/01 F22B1/08 F22B37/18 F24H3/02 F25B1/00 F25B39/00 F25B9/00 F25B9/14 F25D21/14 F28D15/00 F28D21/00 F28D7/00 F28D7/16 F28D9/00 F28F1/00 F28F1/40 F28F13/00 F28F3/00 G01D4/00 G01N11/02 G05B15/02 G05D1/02 G05D7/00 G05D7/06 G06F11/30 G06Q50/06 H02P9/04 H04Q9/00 (Advanced/Invention); B01D1/02 B01D1/06 B01D1/28 B01D29/66 B01D3/00 B01D3/08 B01D3/10 B01D3/42 B01D45/14 B01D5/00 C02F1/08 C02F103/06 (Advanced/Non–invention); B01D1/00 B01D1/22 B01D29/01 B01D3/00 B01D3/34 B01D3/42 B01D35/00 B01D45/00 B01D5/00 B67D7/08 C02F1/04 C02F1/08 C02F1/18 C02F1/32 F01B29/00 F04C19/00 F04C29/00 F04D1/00 F16K15/02 F24H3/02 F25B1/00 F25B9/14 F28D7/00 F28D9/00 F28F1/10 H04Q9/00 (Core/Invention); B01D3/10 (Core/Non–invention)

International class (IPC 1–7): B01D1/06 B01D1/10 B01D1/28 B01D1/30 B01D29/66 B01D3/00 B01D3/02 B01D3/04 B01D3/10 B01D3/42 B01D35/12 B01D35/16 B01D35/22 B01D5/00 B01J19/32 C10B29/00 F04C19/00 F04F11/00 F16K1/00 F16K15/00 F16K15/03 F28D7/16 F28F1/00 F28F1/40 F28F13/00 F28F3/00 H04Q9/00

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European class:

B01D1/00B4B B01D1/00D B01D1/02 B01D1/06 B01D1/06B B01D1/22 B01D1/22B B01D1/28 B01D1/28B8 B01D1/28J B01D1/28L B01D1/28L2 B01D1/30B B01D29/01 B01D3/42 B01D35/12 B01D45/08 B01D5/00B10 B01D5/00B14 B01D5/00B16 B01D5/00H10 B01D5/00K16 B67D1/08J C02F1/04E C02F1/04Z C02F1/08 C02F1/16 C02F1/18 F04C19/00D F04C19/00F F04C19/00H F04C19/00H4 F04C29/00D6 F04D1/12 F22B1/08 F22B37/18 F28D7/00K F28D7/16F6 F28D9/00F4B F28D9/00P F28F1/40 F28F13/00 G01D4/00R1 G06Q50/06 L01D3/10 L67D210/00B4B L67D210/00B4F R04C270/86 Y02B90/24B2 Y04S20/32B

US class: 1/1 137/1 137/489 137/489S 137/513.5 137/527.8 137/613 15/398 15/88 159/13.2 159/13.4 159/14 159/24.1 159/24.2 159/26.1 159/27.1 159/28.6 159/42 159/44 159/46 159/47.1 159/47.3 159/49 159/49P 159/DIG.008 159/DIG.015 159/DIG.15 159/DIG.15S 159/DIG.2 159/DIG.20 159/DIG.32 159/DIG.4 159/DIG.40 159/DIG.6 159/DIG.8 159/DIG.8S 165/104.19 165/104.190P 165/115 165/121 165/121S 165/140 165/140S 165/144 165/164 165/184 165/184S 202/155 202/158 202/158S 202/16 202/160 202/172 202/172S 202/176 202/177 202/180 202/181 202/182 202/185.1 202/185.100P 202/185.2 202/185.3 202/185.300P 202/186 202/187 202/197 202/200 202/202 202/205 202/206 202/206S 202/232 202/234 202/235 202/236 202/237 202/238 202/242 202/262 202/262S 202/267.1 202/267.100P 202/267.100S 202/269 203/1 203/10 203/100 203/10S 203/11 203/11P 203/1P 203/1S 203/2 203/21 203/22 203/22S 203/23 203/24 203/24S 203/25 203/26 203/26S 203/27 203/2S 203/3 203/34 203/34S 203/3P 203/4 203/40 203/40S 203/50 203/57 203/61 203/87 203/87S 203/89 203/89S 203/91 203/DIG.008 203/DIG.18 203/DIG.2 203/DIG.20 203/DIG.8 203/DIG.8S 210/103 210/108 210/137 210/313 210/333.01 210/333.1 210/411 210/483 210/710 210/739 210/744 210/748.1 210/766 210/774 210/774S 210/85 210/96.1 222/52 290/1R 415/169.3 417/200 417/208 417/297.5 417/410.1 417/410.100S 417/423.12 417/54 417/54S 417/572 417/66 417/66S 417/68 417/68P 417/69 417/69S 417/72 417/72S 55/404 55/405 55/405P 55/434.2 60/39.2 60/517 60/517S 60/525 60/660 60/783 62/285 62/291 62/291CD 62/498 62/498S 62/6 62/6P 621/291 700/20 700/275 700/282 700/287 700/302 702/188 702/188P 702/50 702/50S 702/61 702/61P 705/412 705/412S 95/1 95/39

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Abstract:
Source: US2004074757A A method and device for enhancing distillation in an evaporator. The evaporator includes phase change chambers, such as vertically−oriented cylindrical evaporation tubes. Each chamber has an evaporation region that can be heated externally. Each chamber has an inlet for introducing liquid to the chamber and an outlet opening for allowing vapor to exit from the chamber. Packing is inserted into one or more chambers to enhance distillation. The packing may include a rod with bristles emanating from the rod. Other chamber packing may include multiple rods or a mesh.

109) Family number: 58727869 (US2015075137A) © PatBase

Title: CATALYTIC CONVERTER STRUCTURES WITH INDUCTION HEATING

Priority: US20130879211P 20130918 US20130910067P 20131128 US20140452800 20140806 US20140452812 20140806 US20140041053P 20140823 US20150234166P 20150929 US20150829375 20150818 US20160259858 20160908 US20160279406 20160928 US20160279857 20160929 US20160279423 20160928 US20150234166P 20150929 US20150258071P 20151120 US20160279906 20160929 WO2014CA00700 20140918 US20160306885P 20160311 US20160306885P 20160311 US20160306885P 20160311 US20160322719P 20160414 US20160322719P 20160414 US20160343533 20161104

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US2015075137 AA	20150319	US20140452800	20140806
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US2015354426 AA	20151210	US20150829375	20150818
US2016376966 AA	20161229	US20160259858	20160908
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US9617888 BB	20170411	US20140452812	20140806
US9657622 BB	20170523	US20150829375	20150818
WO15039217 A1	20150326	WO2014CA00700	20140918
WO15039221 A1	20150326	WO2014CA00706	20140918

Probable Assignee: ADVANCED TECHNOLOGY EMISSION SOLUTIONS INC

Assignee(s):(std)**:** ADVANCED TECH EMISSION SOLUTIONS INC ; ADVANCED TECHNOLOGY EMISSION SOLUTIONS INC ; CRAWFORD ROBIN ; DOUGLAS JOHN

Assignee(s): ENIGMATECH INC

Inventor(s):(std)**:** CRAWFORD ROBIN ; DOUGLAS JOHN

Inventor(s): JOHN DOUGLAS ; ROBIN CRAWFORD

Agent(s): BENSON CHRISTOPHER; HGF LTD; STUART L; STUART; BRUCE E; GARLICK AND MARKISON; WILKINSON STUART LESLIE

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

International class (IPC 8–9): B01D46/24 B01D46/42 B01D53/00 B01D53/34 B01D53/94 B01J19/08 B01J19/12 B01J35/02 B01J35/04 B01J37/34 F01N11/00 F01N13/00 F01N3/00 F01N3/027 F01N3/028 F01N3/08 F01N3/10 F01N3/20 F01N3/26 F01N3/28 F01N9/00 F02D41/00 F02D9/00 H05B6/10 H05B6/36 (Advanced/Invention)

CPC: F01N9/00 F01N11/002 F01N3/027 F01N2330/06 F01N2330/12 F01N3/2835 F01N2900/0602 F01N2510/00 Y02T10/26 B01D53/94 B01D46/2418 B01D46/4263 B01J35/04 B01D53/9431 B01D53/9418 F01N3/26 B01D2255/40 B01D2255/915 B01D2255/50 F01N3/2828 F01N3/2026 F01N3/2013 F01N3/2853 F01N2240/16 F01N3/0892 H05B6/365 F01N2240/05 H05B6/108

US class: 423/212 60/274 60/284 60/300

Classification Explorer

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Forward Citations: US9580078, US2016090096, EP3174369,

Abstract:
Source: US2015075137A A catalytic converter assembly has a substrate body with a plurality of cells for passage therethrough of exhaust gases. Metal is located at predetermined locations in the substrate body. An electromagnetic field generator is mounted adjacent the substrate for generating a varying electromagnetic field inductively to heat the metal and so heat the substrate.

0) US2009069759A – APPARATUS FOR CLEANSING WOUNDS WITH MEANS FOR S...

110) Family number: 32032395 (US2009069759A) © PatBase

Title: APPARATUS FOR CLEANSING WOUNDS WITH MEANS FOR SUPPLY OF THERMAL ENERGY TO THE THERAPY FLUID

Priority:

EP20050738257	20050427	GB20040009443	20040428	GB20040009444	20040427
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Family:

Publication number	Publication date	Application number	Application date
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WO06114648 A3	20070419	WO2006GB01625	20060427	
ZA200709196 A	20090729	ZA20070009196	20071025	
ZA200709197 A	20090826	ZA20070009197	20071025	

Probable Assignee: SMITH AND NEPHEW

Assignee(s):(std)**:** BLOTT PATRICK L ; BLOTT PATRICK LEWIS ; GREEN CLARE ; HARTWELL EDWARD Y ; HARTWELL EDWARD YERBURY ; LEE WEBB JULIAN ; SMITH AND NEPHEW ; NICOLINI DEREK ; MARTIN ROBIN PAUL ; LEE WEEB JULIAN

Assignee(s): SMITH AND NEPHEW PLC15 ADAM STREETWC2N 6LALONDONGB ; SMITH AND NEPHEW PUBLIC LIMITED COMPANY ; SMITH AND NEPHEW PUBLIC CO LTD ; SMITH AND NEPHEW PLC

Inventor(s):(std)**:** BLOTT PATRICK L ; BLOTT PATRICK LEWIS ; GREEN CLARE ; HARTWELL EDWARD Y ; HARTWELL EDWARD YERBURY ; DEREK LEE WEBB JULIAN NICOLINI ; DEREK NICOLINI ; JULIAN LEE WEBB ; LEE WEBB JULIAN ; LEE WEEB JULIAN ; LEWIS BLOTT PATRICK ; MARTIN ROBIN PAUL ; NICOLINI DEREK ; YERBURY HARTWELL EDWARD

Inventor(s): NICOLINI DEREK SOUTH CAVE ; NICOLINI DEREKGB ; PATRICK LEWIS BLOTT ; LEE WEBB JULIAN COPMANTHORPE ; LEE WEBB JULIAN NICOLINI DEREK ; LEE WEBB JULIANGB ; JULIAN LEE WEEB ; EDWARD YERBURY HARTWELL ; HARTWELL EDWARD YERBURY BROUGH ; HARTWELL EDWARD YERBURYGB ; BLOTT PATRICK LEWIS BARMBY MOOR ; BLOTT PATRICK LEWISGB

Agent(s): GRIFFITH HACK; DAVIES COLLISON CAVE; BORDEN LADNER GERVAIS LLP; MURGITROYD AND CO; CONNORS MARTIN LH; KNOBBE MARTENS OLSON AND BEAR 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

International class (IPC 8–9): A61B17/00 A61F13/00 A61F13/02 A61F7/00 A61H9/00 A61M1/00 A61M27/00 A61M3/00 A61M3/02 A61M35/00 A61M5/14 A61M5/44 (Advanced/Invention);
A61F13/00 A61F7/00 A61F7/03 A61M1/00 A61M3/00 A61M3/02 A61N5/06 (Advanced/Non–invention);
A61B17/00 A61F13/00 A61F7/00 A61H9/00 A61M1/00 A61M27/00 A61M3/00 (Core/Invention);
A61F7/00 A61M3/00 (Core/Non–invention);
A61M (Subclass/Invention)

International class (IPC 1–7): A61H9/00 A61M3/02

CPC: A61M35/00 A61M1/0088 A61M1/0037 A61M1/0084 A61M3/02 A61F2007/0059 A61M3/0258 A61M2205/364 A61M2205/368 A61M1/0023 A61F7/034 A61F13/00068 A61F13/02 A61F2007/0075 A61F2013/00174 A61F2013/00221 A61F2013/00536 A61F2013/0054 A61M1/0092 A61M27/00 A61M2205/3653 A61N2005/0659 A61M5/44

A61M5/14 A61F13/00063 A61F13/0216 A61M3/0216 A61M2205/3686 A61F2013/00357 A61M1/0058 A61M3/0283

European class: A61F13/02 A61M1/00 A61M1/00H4 A61M1/00K A61M1/00T2 A61M1/00T6 A61M27/00 A61M3/02 A61M3/02D8B A61M35/00 K61F7/00D K61F7/00E2 K61F7/03D2 K61M1/00K K61M1/00T6V K61M205/36F K61M205/36J K61M205/36R K61M3/02A6

US class: 604/119 604/187 604/192 604/268 604/290 604/290P 604/291 604/291P 604/291S 604/296 604/30 604/300 604/304 604/305 604/305P 604/305S 604/311 604/312 604/313 604/313S 604/315 604/316 604/317 604/35 604/36 604/543

Classification Explorer

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JP2005531340 T2, JP2002524109, JP2001314479 A2, GB641061 A, GB2378392 A1, GB2307180 A1, GB2195255 A1, GB1549756 A, GB1224009 A, GB114754 A, FR1163907 A, EP2811955, EP1897569 A1, EP1614789 A1, EP1488816 A1, EP0880953 B1, EP0853950 B1, EP0777504 B1, EP0777504 A1, EP0355186 A1, EP0020662 B1, DE847475, DE4102684 A1, DE4012232 A1, DE3935818 A1, DE19844355 A1, DE19722075, CN1438904, CA2369024, CA2369022,

Forward Citations: WO16181302, WO16181300, WO15172111, WO15172104, WO15112810, WO15061352, WO14165275, WO14093984, WO14024048, WO14020443, WO14020440, WO14014922, WO14014871, WO13175310, WO13175310, WO13066694, WO13066694, WO13049834, WO13049834, WO11137293, WO10072349, WO10033769, WO10011660, WO09089390, WO09089390, WO09004370, WO08100438, US9669138, US9642955, US9642750, US9623224, US9616208, US9610390, US9579431, US9545463, US9526920, US9526817, US9511177, US9492326, US9456928, US9452248, US9452244, US9446224, US9446178, US9421132, US9402973, US9393354, US9387126, US9327065, US9327064, US9327063, US9320839, US9289542, US9289327, US9289193, US9283307, US9283131, US9272080, US9265913, US9265665, US9259358, US9227000, US9226737, US9220822, US9211365, US9205001, US9198801, US9192700, US9180230, US9174042, US9155671, US9138515, US9067003, US9061095, US9058634, US9050399, US9050398, US9050208, US9044579, US9044569, US9044532, US9033942, US9016332, US8998865, US8998863, US8974428, US8961481, US8945074, US8945030, US8936618, US8926592, US8893721, US8882746, US8870837, US8864748, US8845619, US8834451, US8829263, US8808274, US8808259, US8801685, US8795243, US8764732, US8758313, US8741131, US8734410, US8715256, US8708981, US8702665, US8679079, US8663199, US8663198, US8641692, US8635921, US8632523, US8608776, US8569566, US8551061, US8535296, US8535283, US8529548, US8491548, US8460258, US8460255, US8449509, US8419696, US8398614, US8377016, US8366692, US8349174, US8348910, US8303552, US8287507, US8282611, US8273074, US8246606, US8241260, US8235955, US8216197, US8216175, US8197467, US8192409, US8187210, US8162909, US8142419, US8128615, US8114126, US8105295, US8100887, US8080702, US8007257, US7998125, US7883494, US7825289, US7794450, US7753894, US7699830, US2016158084, US2015238682, US2015238667, US2015011980, US2014163486, US2014155790, US2014121649, US2014100538, US2013325097, US2013085462, US2013066301, US2012323144, US2012302976, US2012302973, US2012283626, US2012271257, US2012090726, US2011257612, US2011213320, US2011213319, US2011178481, US2011118683, US2011087179, US2011087178, US2011060204, US2011054423, US2011046577, US2011004171, US2011004168, US2010318018, US2010298793, US2010298792, US2010298791, US2010262094, US2010211031, US2010160880, US2010100063, US2009306609, US2009306580, US2009299306, US2009299251, US2009264838, US2009227968, US2009204084, US2008172105, US2007129707, US2007060899, KR101170266, JP5804581, JP5500603, JP5329672, JP2015505266, JP2014237000, JP2014138875, JP2013090956, JP2013039411, JP2012513831, JP2012509723, JP2012507348, JP2012502755, JP2012105841, JP2012105840, JP2012090813, JP2012029791, JP2011500163, JP2010531701, JP2010527713, JP2010515540, EP3093031, EP3053607, EP2773393, EP2717935, EP2717935, EP2482912, EP2452704, EP2219576, EP2173412, EP2160211, EP2119460, EP2106255, EP2106255, EP2106255, CN104825301, CN104758986, CN104661601, CN104582749, CN104203301, CN104114136, CN103813766, CN103517722, CN103517722, CN103379925, CN103379925, CN102755217, CN102711857, CN102711857, CN102421464, CN102421464, CN102256639, CN102256638, AU2013237672, AU2012262807, AU2009331956, AU2009293176, AU2009204140, AU2009204140, AU2008272681,

Abstract:
Source: US2009069759A An apparatus (1) for cleansing wounds (5) in which irrigant fluid from a reservoir connected to a conformable wound dressing (2) and wound exudate from the dressing are moved by a device (18) (which may be a single pump or two pumps) for moving fluid through a flow path (6, 7, 9, 10) which passes through the dressing with a means for providing simultaneous aspiration and irrigation of the wound, and means for supplying thermal energy to the fluid in the wound. The former provides a desired balance of fluid at a controlled nominal flow rate that removes materials deleterious to wound healing, while distributing materials that are beneficial in promoting wound healing over the wound bed. The latter maintains a temperature at the wound bed under the wound dressing at a level that promotes wound healing.

111) Family number: 24709953 (US2003074052A) © PatBase

Title: BISTABLE SPRING CONSTRUCTION FOR A STENT AND OTHER MEDICAL APPARATUS

Priority:

AU20070243708	20070323	AU20140201636	20140318	CA19982602435	19980123
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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

International class (IPC 8–9): A61B17/00 A61B17/11 A61B17/122 A61F2/00 A61F2/02 A61F2/04 A61F2/06 A61F2/07 A61F2/24 A61F2/48 A61F2/82 A61F2/84 A61F2/844 A61F2/88 A61F2/90 A61F2/91 A61F2/915 A61L27/04 A61M25/01 A61M29/00 A61M29/02 F16K31/00 F16L55/00 F16S3/00 (Advanced/Invention);
A61B17/00 A61F2/04 (Advanced/Non–invention);
A61F2/82 F16L55/00 F16S3/00 (Core/Invention);
A61B (Subclass/Invention)

International class (IPC 1–7): A61B17/00 A61B17/11 A61F2/00 A61F2/06 A61M29/00 A61M29/02 F16K31/00

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European class: A61B17/11 A61F2/00B2 A61F2/00B4 A61F2/06C A61F2/88 A61F2/91 A61F2/915 B23K26/40B7H F16K31/00D K61B17/11 K61B17/11B K61F2/04U K61F2/30A1W1 K61F2/915F2 K61F2/915G K61F2/915G2 K61F2/915G6 K61F210/00A K61F250/00N19

US class: 1/1 606/155 606/194 623/1.15 623/1.150P 623/1.150S 623/1.16 623/1.160P 623/1.160S 623/1.17 623/1.24 623/1.240S 623/23.66

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Abstract:
Source: US2003074052A The present invention is directed to bistable cells and their use in devices, particularly medical devices such as stents, clamps and valves. An expandable stent formed of a plurality of bistable cells is described. The stent has two or more stable configurations, including a first stable configuration with a first diameter and a second stable configuration with a second, larger diameter. A valve comprising a bistable cell for use in eliminating incontinence is also disclosed.

0) US2003000907A – VENTED BEVERAGE CONTAINER

112) Family number: 30110170 (US2003000907A) © PatBase

Title: VENTED BEVERAGE CONTAINER

Priority:

AU20030243374	20030603	AU20080246256	20081120	JP20040509324	20030603
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Family:

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AT439561 E	20090815	AT20030734378T	20030603
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Agent(s): PIZZEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; SIM AND MCBURNEY; SEVINC ERKAN; ARENT FOX PLLC; G L LOOMIS AND ASSOCIATES INC; GARY L; LOOMIS GARY L

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 NE NI NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): A41D13/00 A41D13/005 A45F3/20 A47D13/00 A47G19/22 A47G21/18 A61J1/14 A61J9/00 A61J9/04 B65B63/08 B65D1/32 B65D23/00 B65D47/06 B65D47/24 B65D47/26 B65D51/16 B65D51/18 B65D65/00 B65D81/18 B65D81/38 C08J9/00 C12L9/00 F16L11/04 F17C13/00 F25D23/12 F25D3/00 F25D3/08 F25D7/00 F28C1/00 F28D3/08 F28D5/00 (Advanced/Invention); B65D51/16 B65D51/18 B65D65/00 B65D81/18 F25D3/00 F25D7/00 (Advanced/Non–invention); A41D13/00 A41D13/005 A47D13/00 A47G19/22 A47G21/00 A61J1/14 A61J9/00 B65D81/18 B65D81/38 F16L11/04 F25D23/12 F25D7/00 F28C1/00 F28D5/00 (Core/Invention)

International class (IPC 1–7): A41D13/00 A41D13/005 A47J41/02 A61J11/02 A61J9/00 A61J9/04 B65D1/32 B65D23/00 B65D47/24 B65D51/16 B65D51/18 B65D65/00 B65D81/18 C08J9/00 C12L9/00 F25D7/00

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US class: 215/11.1 215/11.100S 215/11.5 215/11.500P 215/111 215/12.1 215/12.100P 215/308 215/902 62/259.3 62/259.300P 62/304 62/304S 62/315 62/315P 62/315S 62/316 62/371 62/457.9 62/457.900S 62/60

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Abstract:
Source: US2003000907A A beverage container is provided with a hydrophobic vent consisting of a relatively thick and rigid disc−shaped piece of macroporous plastic having pore sizes averaging from 7−350 microns. The vent can be welded, molded or secured to the sidewall, bottom or cap of a plastic beverage container thus eliminating all moving parts. The macroporous plastic is resistant to oxidative abrasion, contamination and wetting and is strong enough to resist breakage. In one embodiment a baby bottle is provided which consists of a plastic bottle body, a nipple, and means for fastening the nipple to the bottle body. The bottle body is provided with a macroporous plastic vent which can be welded, molded or secured to the sidewall or bottom of the bottle body thus eliminating all moving parts. The bottle body can be washed repeatedly as a single unit with the vent intact.

0) US2005267408A – CATHETER HAVING FIRST AND SECOND GUIDEWIRE TUBE...

113) Family number: 32451965 (US2005267408A) © PatBase

Title: CATHETER HAVING FIRST AND SECOND GUIDEWIRE TUBES AND OVERLAPPING STIFFENING MEMBERS

Priority: US20040575643P 20040527 US20040952543 20040929 US20050136251 20050523 US20050684135P 20050523 US20060357775 20060217 US20050684143P 20050523 US20050654022P 20050217 US20050742059P 20051201 US20050136640 20050523 WO2006US20299 20060523 US20060439596 20060523 US20060439809 20060523 US20100871440 20100830 US20060439592 20060523 US20060439810 20060523 US20060439591 20060523 WO2006US20302 20060523 WO2005US18194 20050523 WO2005US18195 20050523

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WO06127931 A3	20070322	WO2006US20302	20060523

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Assignee(s): ABBOTT LABORATORIES VASCULAR ENTERPRISES ; ABBOTT LABORATORIES VASCULAR ENTERPRISES LIMITED ; ABBOTT LABORATORIES VASCULAR ENTERPRISES LTD ; PACTIV CORP

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Inventor(s): CORCORAN LOUISE ; OEPEN RANDOLF

Agent(s): BERESFORD KEITH DENIS LEWIS; LJUNGBERG ROBERT; WINSTON AND STRAWN LLP; SHINJYU GLOBAL IP COUNSELORS LLP; BAKER BOTTS LLP; WORKMAN NYDEGGER

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

International class (IPC 8–9): A61F2/958 A61M25/00 A61M29/00 A61M31/00 B29C65/14 B29C65/16 B29C65/68 B32B37/00 (Advanced/Invention);
A61M29/02 (Advanced/Non–invention);
A61M25/00 A61M29/00 B29C65/00 B32B37/00 (Core/Invention)

International class (IPC 1–7): A61M25/00 A61M31/00

CPC: A61M25/0051 A61M25/1029 A61M25/0052 B29C66/53241 B29C65/18 B29C65/245 B29C65/7855 B29C66/1122 B29C66/612 B29C2791/009 B23K26/009 A61M25/0009 B23K26/18 B23K26/24 B23K2201/06 A61F2/958 A61M25/0023 A61M25/0045 A61M25/005 A61M25/0053 A61M25/0054 A61M25/008 B29C65/14 B29C65/1441 B29C65/1445 B29C65/16 B29C65/1635 B29C65/68 B29C66/5344 B29C66/63 B29L2031/7543 A61M2025/0034 A61M25/00 A61M29/00 A61M25/10 A61M25/0021 A61M25/0029 A61M25/0032 A61M25/0043 A61M2025/0063 A61M2025/0183 A61M2025/1056

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US class: 156/272.2 156/272.200S 156/272.8 156/272.800P 156/273.5 156/293 264/512 264/512P 264/567 264/567S 264/632 264/632S 604/103.04 604/103.040P 604/103.040S 604/103.09 604/509 604/509P 604/523 604/523P 604/524 604/524P 604/525 604/525P 604/528 604/528S 604/96.01 604/96.010P 606/194 606/194P

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A, US5951539 A, US5938645 A, US5906619 A, US5902290 A, US5891110 A, US5891056 A, US5882336 A, US5851464 A, US5843050 A, US5843032 A, US5836965 A, US5833604 A, US5824173 A, US5823995 A, US5820613 A, US5820594 A, US5807355 A, US5775685 A, US5772669 A, US5755687 A, US5755685 A, US5743875 A, US5738667 A, US5733400 A, US5728067 A, US5711909 A, US5702439 A, US5695483 A, US5669932 A, US5667493 A, US5662622 A, US5658251 A, US5656029 A, US5649909 A, US5634902 A, US5605543 A, US5588964 A, US5549563 A, US5549553 A, US5549552 A, US5545200 A, US5545138 A, US5538510 A, US5501759 A, US5500180 A, US5496346 A, US5490837 A, US5489271 A, US5480383 A, US5470315 A, US5460185 A, US5443457 A, US5425711 A, US5413560 A, US5413557 A, US5410797 A, US5402720 A, US5395334 A, US5370615 A, US5357978 A, US5334147 A, US5328468 A, US5304198 A, US5300025 A, US5267958 A, US5261879 A, US5252159 A, US5226888 A, US5221270 A, US5217482 A, US5195978 A, US5175978 A, US5154725 A, US5147317 A, US5135535 A, US5102403 A, US5078702 A, US5047045 A, US5037404 A, US4978835 A, US4944745 A, US4921483 A, US4898591 A, US4892519 A, US4877031 A, US4771777 A, US4762129 A, US4748982 A, US4721115 A, US4563181 A, US4490421 A, US4251305 A, US4025258 A, US3528867 A, US345141 A, US32983 A, US2814744 A, US2009018502 AA, US2007167913 AA, US2007083188 AA, US2007078439 AA, US2007060910 AA, US2007021771 AA, US2007016165 AA, US2007016132 AA, US2006270977 AA, US2006071371 AA, US2005267408 AA, US2005131387 AA, US2005059292 AA, US2004236367 AA, US2004193140 AA, US2004059292 AA, US2004023671 AA, US2004019322 AA, US2004010243 AA, US2003163082 AA, US2003105427 AA, US2002115963 AA, US2002007146 AA, US2001034514 AA, US2001021840 AA, EP1518581 A1, EP1435252, EP1234595 A2, EP0916359 A1, EP0806220 A2, EP0518205 A1, EP0414350 A1, EP0408198 A1, EP0029185 A1, DE9729499, DE9420821 U, DE9420821, DE19729499 A1,

Forward Citations: WO15065993, WO13176850, WO13173566, WO13116521, WO13086377, WO13076889, WO13067518, WO12094135, WO11028310, WO10066446, WO10009399, WO09151970, WO09151970, WO08058157, WO08058157, WO08048568, WO07089570, WO07089570, WO07008784, WO06138741, WO06104591, US9669188, US9616201, US9579225, US9572751, US9572623, US9550042, US9545290, US9539019, US9522254, US9504776, US9392935, US9375268, US9364360, US9352120, US9339288, US9333322, US9314362, US9301770, US9295570, US9277957, US9259559, US9259341, US9259233, US9220395, US9211391, US9192759, US9186497, US9161740, US9155528, US9132216, US9101450, US9095366, US9078662, US9039729, US9039728, US9005138, US8996095, US8986339, US8986227, US8974473, US8974401, US8951274, US8926560, US8925177, US8918987, US8870817, US8870755, US8864812, US8858533, US8840626, US8840625, US8834487, US8821510, US8814899, US8795348, US8784602, US8777981, US8777977, US8777841, US8768487, US8764631, US8747300, US8728110, US8721663, US8721588, US8721546, US8715244, US8672995, US8668712, US8650747, US8647349, US8646172, US8622957, US8613753, US8612023, US8597240, US8591565, US8585858, US8579822, US8574253, US8574220, US8551043, US8532788, US8528563, US8465462, US8435229, US8425537, US8414477, US8393328, US8382775, US8377041, US8366674, US8353868, US8343040, US8340782, US8323432, US8317678, US8313601, US8292913, US8287519, US8267886, US8244372, US8241246, US8236221, US8235942, US8221485, US8221351, US8206347, US8182446, US8137291, US8133190, US8109903, US8105275, US8092634, US8080049, US8075497, US8052637, US8025656, US8021352, US8021328, US8012117, US8002744, US8002741, US7996974, US7985236, US7985235, US7914487, US7862541, US7815627, US7811238, US7798980, US7794448, US7785439, US7785318, US7785275, US7780629, US7771465, US7763033, US7762984, US7682335, US7658723, US7628769, US7625353, US7544201, US7527606, US2015273209, US2015273208, US2015265446, US2015231307, US2015088186, US2015073467, US2014342576, US2014194918, US2014053401, US2013253417, US2013053772, US2013053769, US2013023972, US2012330401, US2012316585, US2012261857, US2012226229, US2012220897, US2012190988, US2012136340, US2012006479, US2011276077, US2011224771, US2011196191, US2011196190, US2011172696, US2011172644, US2011137245, US2011118815, US2011106234, US2011028896, US2011009932, US2010319848, US2010319836, US2010318068, US2010268243, US2010210934, US2010185145, US2010126894, US2010106237, US2010069853, US2010030192, US2009306587, US2009281498, US2009270897, US2009270895, US2009270812, US2009228091, US2009171277, US2009163891, US2009157048, US2009149936, US2009062840, US2008312664, US2008294175, US2008289181, US2008245371, US2008221550, US2008188831, US2008172040, US2008171980, US2008135053, US2008125795, US2008097294, US2008051761, US2008051705, US2008004568, US2007299495, US2007299494, US2007299367, US2007276325, US2007255209, US2007239022, US2007219490, US2007185416, US2007185414, US2007184707, US2007167065, US2007118052, US2007100257, US2007060910, US2007016165, US2006282156, US2006142696, US2006071371, RU2582958, JP6124142, JP5826592,

JP2013090820, JP2013076889, GB2505688, GB2505688, GB2496788, GB2496788, GB2471517, EP2985051, EP2944344, EP2668934, EP2554209, EP2554209, EP2510971, EP2196174, EP2098194, EP1683540, DE102008012744, CN104436415, AU2013215036,

Abstract:
Source: US2005267408A The invention includes a catheter having an elongate main body having a proximal section and a distal section. The elongate main body further includes a first guidewire lumen and a second guidewire lumen. Each guide wire lumen including a proximal port and a distal port in communication with an external environment. The proximal port of the first guidewire lumen spaced by a gap from the distal port of the second guidewire lumen. In accordance with a further aspect of the invention, the catheter includes a plurality of overlapping stiffening members defined along at least a portion of a length between the distal end and the proximal end of the elongate main body.

114) Family number: 50951624 (US2012247337A) © PatBase

Title: LIQUID DEGASSING MEMBRANE CONTACTORS, COMPONENTS, SYSTEMS AND RELATED METHODS

Priority: US20100387292P 20100928 US20110247213 20110928 WO2011US53625 20110928 US20130895432 20130516

Family:

Publication number	Publication date	Application number	Application date
CN103153427 A	20130612	CN201180049908	20110928
CN103153427 B	20150930	CN201180049908	20110928
IN02800DN2013 A	20141114	IN2013DN02800	20130328
US2012247337 AA	20121004	US20110247213	20110928
US2013247760 AA	20130926	US20130895432	20130516
US8449659 BB	20130528	US20110247213	20110928
US8690994 BB	20140408	US20130895432	20130516
WO12050870 A2	20120419	WO2011US53625	20110928
WO12050870 A3	20120614	WO2011US53625	20110928

Probable Assignee: 3M INNOVATIVE PROPERTES CO

Assignee(s):(std)**:** BOULDIN JR ELMER WAYNE ; CELGARD LLC ; PRICE TIMOTHY D ; TAYLOR GARETH P ; VIDO TONY R

Assignee(s): CELGARD LLC F K A CELGARD INC ; 3M INNOVATIVE PROPERTES CO ; BANK OF AMERICA NA ADMINISTRATIVE AGENT AS

Inventor(s):(std)**:** BOULDIN ELMER WAYNE JR ; BOULDIN JR ELMER WAYNE ; PRICE TIMOTHY D ; TAYLOR GARETH P ; VIDO TONY R

Agent(s): HAMMER AND ASSOCIATES P C; HAMMER AND ASSOCIATES PC; HAMMER ROBERT H III 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 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 QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG UZ VC VN ZA ZM ZW

International class (IPC 8–9): B01D19/00 B01D35/01 B01D35/22 B01D53/22 B01D63/02 B01D69/08 (Advanced/Invention)

CPC: B01D19/0031 B01D63/02 B01D2311/13 B01D2313/10 B01D2313/21 B01D2313/56 B01D2317/02 B01D2317/04

European class: B01D19/00F B01D63/02 L01D311/13 L01D313/10 L01D313/21 L01D313/56 L01D317/02 L01D317/04

US class: 29/450 95/45 95/46 96/4 96/6 96/8

Classification Explorer

Cited documents: US8449659 BB, US7255729 BB, US6224763 BA, US5938922 A, US5922201 A, US5366625 A, US5352361 A, US5264171 A, US4865736 A, US4636307 A, US4207192 A, US2011036240 AA, US2009301967 AA, US2009084720 AA, US2007144716 AA, US2006163140 AA, US2005218064 AA, US2005161388 AA, US2003154856 AA, JPS62250908, JP62250908 A2, JP2002835 A2,

Forward Citations: WO16209755, WO15174973, WO14152264, USD776786, USD705391, USD705390, US9630826, US9541302, US9504962, US9463398, US9233824, US8690994, US2015217235, US2014322409, US2014263061, US2014202331, US2013319241, US2012304862, EP2101843, CN105517693, CN104296123, CN104296123,

Abstract:
Source: US2012247337A The present invention is directed to contactors, modules, components, systems, and/or methods of manufacture, and/or methods of use including degassing liquids. The contactor or module is integrally potted, has planar, disc shaped end caps, and a cylindrical housing or shell receiving and supporting a membrane

structure. Each of the planar disc shaped end caps has a central opening therein adapted to receive a liquid end port or nozzle and is held in place in the housing or shell by at least one retaining element. The integrally potted membrane structure is preferably potted in place in the housing or shell by an inverted potting process involving the use of a removable plunger or plug to recess the potting.

0) US2003153931A – DEVICE AND METHOD FOR CONNECTING HOLLOW ORGANS ...

115) Family number: 28928123 (US2003153931A) © PatBase

Title: DEVICE AND METHOD FOR CONNECTING HOLLOW ORGANS AND/OR SEALING WALL DEFECTS IN HOLLOW ORGANS

Priority: US20010297127P 20010608 US20010965159 20010927

Family:

Publication number	Publication date	Application number	Application date
US2003153931 AA	20030814	US20010965159	20010927
US6902570 BB	20050607	US20010965159	20010927

Probable Assignee: IP VERWERTUNGS GMBH

Assignee(s):(std)**:** HILLER ANDREA ; HORKE ALEXANDER PAUL ; KLENK JOCHEN ; REIN JOACHIM GERD ; SCHRAFT ROLF DIETER

Assignee(s): IP VERWERTUNGS GMBH ; FRAUNHOFER GES ZUR FORDERUNG DER ANGEWANDTEN FORSC ; FRAUNHOFER GES ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG EV

Inventor(s):(std)**:** HILLER ANDREA ; HORKE ALEXANDER PAUL ; KLENK JOCHEN ; REIN JOACHIM GERD ; SCHRAFT ROLF DIETER

Agent(s): YOUNG AND BASILE PC

International class (IPC 8–9)**:** A61B17/11 (Advanced/Invention); A61B17/00 A61B17/04 A61B17/06 A61B17/30 (Advanced/Non–invention); A61B17/03 (Core/Invention); A61B17/00 A61B17/04 A61B17/06 A61B17/30 (Core/Non–invention)

International class (IPC 1–7)**:** A61B17/08 A61B17/12

CPC: A61B17/0482 A61B17/11 A61B2017/00243 A61B2017/00778 A61B2017/06076 A61B2017/1107 A61B2017/306

European class: A61B17/11 K61B17/00E1C K61B17/00R4 K61B17/04G K61B17/06N2 K61B17/11B K61B17/30S

US class: 606/144 606/153 623/23.64

Classification Explorer

Cited documents: US6514263 BA, US6315784 BA, US6015416 A, US5964772 A, US5947983 A, US5891159 A, US5820631 A, US5800524 A, US5665109 A, US5545148 A, US5470338 A, US5364408 A, US5356424 A, US5259395 A, US4357946 A, FR2713472 A1, DE4304353 A1, DE3413744 A1, DE295962 A, DE2801096 A1, DE19704261 C2,

Forward Citations: WO06063479, US8906039, US8679134, US8454683, US8226730, US7972370, US7815652, US7699892, US7637918, US2010256778, US2009270966, US2009099578, US2007244556, US2007244555, US2007244553, US2007225737, US2006212048, US2006036265,

Abstract:
Source: US2003153931A A device for connecting hollow organs and/or sealing wall defects in hollow organs, has a base mounting for replacement on a hollow organ. The base mounting has at least one recess on a first surface and at least one guidetrack for at least one spiral needle in which the spiral needle is movable forwards in a rotatable fashion. The guidetrack for the spiral needle is disposed at least partially along the edge of the recess in such a manner that the track of the spiral needle during a revolution extends partially in the base mounting and partially in the recess.

116) Family number: 29361184 (US2004167634A) © PatBase

Title: PROSTHETIC KIDNEY AND ITS USE FOR TREATING KIDNEY DISEASE

Priority: US19960025511P 19960905 US19990254476 19990526 US20030741556 20031219 WO1997US15470 19970904

Family:

Publication number	Publication date	Application number	Application date
AT260076 E	20040315	AT19970941403T	19970904
AU199743318 A1	19980326	AU19970043318	19970904
DE69727817 D1	20040401	DE19976027817	19970904
DE69727817 T2	20050105	DE19976027817T	19970904
EP0929271 A1	19990721	EP19970941403	19970904
EP0929271 B1	20040225	EP19970941403	19970904
JP2001506871 T2	20010529	JP19980512833T	19970904
JP4023828 B2	20071219	JP19980512833T	19970904
US2004167634 AA	20040826	US20030741556	20031219
US6673339 BA	20040106	US19990254476	19990526
WO9809582 A1	19980312	WO1997US15470	19970904

Probable Assignee: CHILDREN S MEDICAL CENTER CORPRATION

Assignee(s):(std)**:** ASHKAR SAMY ; ATALA ANTHONY ; CHILDRENS MEDICAL CENTER ; YOO JAMES J

Assignee(s): CHILDREN'S MEDICAL CENTER CORPRATION ; CHILDREN''S MEDICAL CENTER CORPRATION ; CHILDREN'S MEDICAL CENTER CORP ; CHILDREN S MEDICAL CENTER CORP ; CHILDREN S MEDICAL CENTER CORP BOSTON ; CHILDREN S MEDICAL CENTER CORPRATION

Inventor(s):(std)**:** ASHKAR SAMY ; ATALA ANTHONY ; YOO J ; YOO JAMES J

Inventor(s): ANTHONY ATALA ; JAMES J YOO ; SAMY ASHKAR

Designated states: AL AM AT AU AZ BA BB BE BG BR BY CA CH CN CU CZ DE DK EE ES FI FR GB GE GH GR HU IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SZ TJ TM TR TT UA UG US UZ VN YU ZW

International class (IPC 8–9): A61F2/02 A61K35/12 A61L27/38 A61L27/56 A61M1/14 C12N5/071 G01N33/15 G01N33/50 (Advanced/Invention); A61K35/12 A61M1/14 G01N33/15 G01N33/50 (Advanced/Non–invention); A61F2/02 A61L27/00 A61M1/14 C12N5/071 G01N33/15 G01N33/50 (Core/Invention); A61K35/12 (Core/Non–invention)

International class (IPC 1–7): A01N63/00 A61F2/02 A61F2/04 A61L27/00 A61M1/14 B65D1/02 C12N5/00 C12N5/06 G01N33/15

CPC: Y10S623/915 A61L2430/26 A61L27/3804 A61K35/12 A61L27/3839 A61L27/56 C12N5/0686 C12N2500/25 C12N2501/01 C12N2501/39 A61M1/14

European class: A61L27/38B A61L27/38D A61L27/56 C12N5/06B25K K61K35/12 M12N500/25 M12N501/010 M12N501/390

US class: 424/93.2 435/401 623/23.65 623/23.650P 623/23.72 623/23.720S 623/915

Classification Explorer

Cited documents: WO9307913 A1, US6576019 BA, US6428802 BA, US6376244 BA, US6368859 BA, US6171344 BA, US6140039 A, US6018024 A, US5967972 A, US5962325 A, US5957972 A, US5947893 A, US5916265 A, US5863531 A, US5858721 A, US5855610 A, US5851833 A, US5800537 A, US5770417 A, US5770193 A, US5766618 A, US5762966 A, US5759830 A, US5750329 A, US5716404 A, US5709854 A, US5686289 A, US5654273 A, US5613982 A, US5567612 A, US5549674 A, US5545131 A, US5516680 A, US5514378 A, US5480436 A, US5443950 A, US5433996 A, US5429938 A, US5429674 A, US5376376 A, US5261898 A, US5224953 A, US5160490 A, US5092886 A, US5085629 A, US5032508 A, US4996154 A, US4963489 A, US4769037 A, US4594407 A, US4520821 A, US4458678 A, US4182339 A, US3463158 A,

US2002150604 AA, GB2011274 A1,

Forward Citations: WO08153970, WO03013588, US9585783, US9580688, US9534203, US9408530, US9238090, US9237944, US9198563, US9192629, US9173837, US9155609, US9084669, US9029144, US9011329, US8940292, US8870806, US8834405, US8694092, US8660642, US8512219, US8372032, US8361014, US8361013, US8353896, US8337482, US8318484, US8173361, US8128707, US8092549, US8024036, US8019413, US8000784, US7998060, US7977451, US7857767, US7759120, US7759099, US7695628, US7670797, US7669720, US7569076, US7299805, US6479064, US6428802, US6368859, US2013149347, US2011245752, US2011168631, US2011117162, US2011065809, US2010112062, US2010104544, US2009186065, US2008305146, US2008268016, US2008142443, US2008142442, US2008142418, US2008135481, US2008035568, US2007119781, US2007116679, US2007059335, US2006210596, US2006199265, US2006155311, US2006073610, US2004078073, KR101444158, JP5166275, JP5166275, JP2013248536, JP2010063910, JP2008514284, JP2008047760, EP2292278, EP1752168, EP1388327, CN104188734, AU2007201136, AT411328,

Abstract:
Source: US2004167634A The invention is directed to a prosthetic kidney, to methods of making a prosthetic kidney and to methods of treating kidney disease with a prosthetic kidney. The prosthetic kidney comprises nephron analogs on the exterior surface and an enclosed porous membrane structure equipped with an effluent channel for collecting and draining urine from the device. The nephron analogs are prepared by implanting a device containing renal tubule analogs on the membrane structures and inducing angiogenesis to form glomeruli–like structures. The renal tubule analogs are prepared by seeding kidney cells on the porous membrane structure and culturing this composite in vitro.

0) US2006069346A – CATHETER WITH CONTROLLABLE STIFFNESS AND METHOD...

117) Family number: 32764893 (US2006069346A) © PatBase

Title: CATHETER WITH CONTROLLABLE STIFFNESS AND METHOD FOR OPERATING A SELECTIVE STIFFENING CATHETER

Priority: US20040612684P 20040924 US20050233993 20050923 US20060395903 20060331 US20090479941 20090608 US20100822219 20100624 WO2005US34487 20050926 US20130919080 20130617 US20160054983 20160226

Family:

Publication number	Publication date	Application number	Application date
EP1804892 A2	20070711	EP20050802110	20050926
US2006069346 AA	20060330	US20050233993	20050923
US2006211979 AA	20060921	US20060395903	20060331
US2009299280 AA	20091203	US20090479941	20090608
US2010280510 AA	20101104	US20100822219	20100624
US2013274739 AA	20131017	US20130919080	20130617
US2016175045 AA	20160623	US20160054983	20160226
US7559916 BB	20090714	US20050233993	20050923
US7771411 BB	20100810	US20060395903	20060331
US8083713 BB	20111227	US20090479941	20090608
US8491520 BB	20130723	US20100822219	20100624
US9295511 BB	20160329	US20130919080	20130617
WO06036915 A2	20060406	WO2005US34487	20050926
WO06036915 A3	20061221	WO2005US34487	20050926
WO07035931 A2	20070329	WO2006US37305	20060925
WO07035931 A3	20090618	WO2006US37305	20060925

Probable Assignee: SYNTHEON LLC

Assignee(s):(std)**:** ABELLEIRA JOE ; ABELLIERA JOE ; BALES JR THOMAS O ; BALES THOMAS O ; DEVILLE DEREK D ; DEVILLE DEREK DEE ; KMS MEDICAL LLC ; SMITH KEVIN W ; PALMER MATTHEW A ; MCBRAYER SEAN M ; KLINE KOREY ROBERT ; MCBRAYER SEAN ; SYNTHEON LLC

Inventor(s):(std)**:** ABELLEIRA JOE ; ABELLIERA JOE ; BALES THOMAS O ; KLINE KOREY R ; KLINE KOREY ROBERT ; MCBRAYER M SEAN ; MCBRAYER SEAN ; MCBRAYER SEAN M ; DEVILLE DEREK D ; DEVILLE DEREK DEE ; PALMER MATTHEW A ; SMITH KEVIN W ; BALES JR THOMAS O

Inventor(s): SMITH KEVIN ; KLINE KOREY ; PALMER MATTHEW ; DEVILLE DEREK ; BALES THOMAS

Agent(s): FELDMANGALE PA; GREGORY L MAYBACK PA; MAYBACK AND HOFFMAN PA; GREGORY L; SCOTT D; REBECCA A; THOMAS

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 TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): A61B17/20 A61B18/00 A61B18/14 A61B18/18 A61F13/20 A61F2/01 A61F2/84 A61M25/00 A61M25/01 A61M25/092 A61M31/00 A61M37/00 A61N1/30 B23P11/00 (Advanced/Invention); A61B18/04 A61M25/00 A61M25/10 (Advanced/Non–invention); A61B17/20 A61F13/20 A61F2/82 A61M25/00 A61M25/092 A61M31/00 A61M37/00 B23P11/00 (Core/Invention)

CPC: Y10T29/49826 A61B2018/00351 A61F2/01 A61F2230/005 A61M25/005 A61M25/0053 A61M25/0054 A61M25/01 A61M25/104 A61M2025/0063 A61M2025/0064 A61B2018/00357 A61B2018/00577 A61B18/1492 A61B18/00

European class:

A61B18/14V A61F2/01 A61M25/00S2 A61M25/00S3 A61M25/01 K61B18/00F6A K61M25/00S10 K61M25/00S10A K61M25/00S2C K61M25/10P

US class: 1/1 29/428 29/428S 604/11 604/11P 604/19 604/523 604/525 604/531 604/531S 604/95.04 604/95.05 604/95.050P 604/95.050S 606/27 606/33 606/33P 606/41 606/47 623/1.11 623/1.110S

Classification Explorer

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Abstract:
Source: US2006069346A A method and device for treating a Chronic Total Occlusion provides a controllable stiffness catheter with a shaft having a stiffness sheath and an access lumen. The device has a stiffness device in a stiff state below a given temperature and in a soft state above the temperature, a temperature−changing device in thermal contact with the stiffness device, the temperature−changing device changing a temperature of the stiffness device below and above the temperature, and a power controller electrically connected to the stiffness device and selectively supplying power to the temperature−changing device to change a stiffness of the stiffness device between the stiff and soft states. A guidewire is moved to a treatment site and the catheter moves along the guidewire up to CTO in its soft state. The catheter stiffens without straightening and, in the stiff state, the catheter or the guidewire is projecting through the CTO.

118) Family number: 43384827 (US2012222551A) © PatBase

Title: SWING ADSORPTION PROCESSES UTILIZING CONTROLLED ADSORPTION FRONTS

Priority:
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Family:

Publication number	Publication date	Application number	Application date
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Assignee(s): NGUYEN TN AHN ; NANOTHERAPEUTICS INC ; NANYANG TECHNOLOGICAL UNIVERSITY ; BAXTER INT INC ; NANYANG TECHNOLOGICAL UNIV ; EMORY UNIV ; BAXTER INT INC E BAXTER HEALTHCARE SA ; EXXONMOBIL RESEARCH AND ENGINEERING CO ; EXXONMOBIL RESEARCH AND ENGINEERING COMPANY ; BAXTER INT INCORP0RATED

Inventor(s):(std)**:** ZHANG JUYONG ; ZHENG JIANMIN ; ZOHNI WAEL ; RAVIKOVITCH PETER I ; MOHAMMED ILYAS ; LETA DANIEL P ; HABA BELGACEM ; GUPTA RAMESH ; DECKMAN HARRY W ; CRISP RICHARD DEWITT ; CHILDERS STEVEN R ; ANDERSON THOMAS N ; ZHOU XIAOHONG JOE ; HINES MICHELLE ; GAN DAVID ; FLORENCE TIFFANY ; CAI JIANFEI ; CHENNAMADHAVUNI SPANDAN ; CHILDRENS STEVEN R ; DAVIES HUW M ; DECKMAN HARRY ; DERITES BRUCE A ; DERITES BRUCE ANTHONY ; GRANINGER MICHAEL ; JOHNSON JACK W ; JOHNSON ROBERT A ; KALIWODA MARTIN ; KAMAKOTI PREETI ; MARTIN THOMAS J ; NGUYEN T N AHN

Inventor(s): NGUYEN TN AHN ; MICHAEL GRANINGER ; MARTIN KALIWODA

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; BORDEN LADNER GERVAIS LLP; MARESCHAL ANNE; LAU SARAH JANE; HOFFMANN EITLE; CLARK JANE ANNE; ARAI EIICHI; FUJITA TAKASHI; TANAKA NATSUO; FUJII AI; HIRAKI YUSUKE; MATSUTOYA YUKO; OHNO SEIJI; BRUCE M; DAVID M; ANDREW T; MALCOLM D; MCDONNELL BOEHNEN HULBERT AND BERGHOFF LLP; PURWIN PAUL E ET AL; WEISBERG DAVID M ET AL; WATKIN TIMOTHY LAWRENCE HARVEY

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 QA RO RS RU RW 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

International class (IPC 8–9): A61K31/195 A61K31/216 A61K36/185 A61K36/45 A61K36/48 A61K36/74 A61K39/145 A61K39/155 A61K39/165 A61K45/06 A61K8/97 A61P17/00 A61P17/18 A61P25/04 A61P25/24 A61P9/04 A61Q19/00 A61Q19/02 A61Q19/08 B01D53/00 B01D53/02 B01D53/04 B01D53/047 B01D53/14 B01D53/52 B01D53/82 B01J20/18 B01J20/20 B01J20/22 B01J20/28 B01J20/32 B01J20/34 B32B37/02 B32B37/12 B32B37/14 C01B17/04 C01B17/16 C07C227/04 C07C229/46 C07C67/313 C07C69/757 C07K C07K1/20 C07K14/005 C07K14/11 C10L3/10 C12N7/00 G01N30/02 G01N33/68 G01R33/48 G01R33/561 G01R33/565 G06Q20/16 G06Q20/32 G06Q30/02 G06Q40/02 G06T1/00 G06T7/00 H01L21/98 H01L23/12 H01L23/31 H01L25/065 H01L25/07 H01L25/10 H01L25/18 (Advanced/Invention); H04M3/00 (Core/Invention)

CPC: G06T2207/20076 G06T2207/20101 G06T2207/20116 C07C67/313 C07C227/04 A61K31/195 C07C227/16 H01L25/0657 H01L23/13 H01L23/18 H01L23/3128 H01L23/4334 H01L23/49816 H01L25/0652 H01L25/50 H01L2224/32225 H01L2224/4824

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European class: B01D53/047R B01D53/04C8 B01D53/04T C10L3/10B2B C10L3/10B2D C10L3/10B4 C12N7/00 L01D252/204F L01D253/102 L01D253/108B L01D253/116 L01D253/204 L01D253/340 L01D256/24M L01D257/304 L01D257/504 L01D257/702A L01D53/04C8

US class: 156/62.2 324/309 423/228 423/230 423/574.1 428/403 455/418P 502/401 502/407 502/414 502/416 502/60 502/62 502/78 502/79 514/510 514/531 560/37 560/42 560/51 705/39S 705/41S 95/100 95/103 95/104 95/106 95/114 95/115 95/136 95/139 95/143 95/90 95/96 95/97 95/98 95/99 96/108 96/152 96/153 96/154

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Abstract:
Source: US2012222551A A process for reducing the loss of valuable products by improving the overall recovery of a contaminant gas component in swing adsorption processes. The present invention utilizes at least two adsorption beds, in series, with separately controlled cycles to control the adsorption front and optionally to maximize the overall capacity of a swing adsorption process and to improve overall recovery a contaminant gas component from a feed gas mixture.

119) Family number: 42149152 (US4820626A)

© PatBase

Title: Method of treating a synthetic or naturally occuring surface with microvascular endothelial cells, and the treated surface itself

Priority:

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Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; FB RICE; KIRBY EADES GALE BAKER; MITCHELL RICHARD J; GOWLING LAFLEUR HENDERSON LLP; BORDEN LADNER GERVAIS LLP; SANFORD TCOLB AND CO

Designated states: AT AU BE BR CA CH DE DK ES FI FR GB GR IE IT JP KR LI LU MC NL NO PT SE

International class (IPC 8–9): A01N1/02 A61B10/02 A61B17/00 A61F2/00 A61F2/02 A61F2/06 A61L27/00 A61L27/28 A61L27/34 A61L27/38 A61L27/50 A61L33/00 A61M1/00 C12M1/40 C12M3/00 C12M3/08 C12N15/09 C12N3/00 C12N5/00 C12N5/02 C12N5/06 C12N5/08 C12N5/10 C12Q1/02 C12S3/00 C23C14/34 G01N1/30 G01N33/48 G01N33/50 (Advanced/Invention);
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A61L27/00 A61L33/00 C12M3/00 C12M3/08 C12N5/06 C12Q1/02 C23C14/34 (Core/Invention);
C12Q (Subclass/Invention)

International class (IPC 1–7): A01N1/02 A61B10/00 A61B17/00 A61B17/322 A61F2/00 A61F2/02 A61F2/04 A61F2/06 A61F2/54 A61J1/00 A61K35/44 A61K49/00 A61L27/00 A61L33/00 A61M1/00 B05D3/06 C07K15/00 C12M1/40 C12M3/00 C12M3/08 C12N11/04 C12N15/09 C12N3/00 C12N5/00 C12N5/02 C12N5/06 C12N5/08 C12N5/10 C12Q1/02 C12Q1/04 C12Q1/06 C12S3/00 G01N1/30 G01N1/30 G01N33/48 G01N33/50

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Abstract:
Source: US4820626A The present invention provides a novel method of treating a synthetic or naturally occurring implant, such as a vascular graft, intended for implantation in a human patient, comprising obtaining human microvascular rich tissue from that patient; separating microvascular endothelial cells from that tissue; and placing said microvascular endothelial cells onto said implant to provide at least about 50 percent confluence of said cells on the surface of said implant to be treated. In the preferred embodiment, the microvascular rich tissue is perinephric fat, which is obtained from the donor and subjected to a digestive separation process to provide an abundant supply of microvascular endothelial cells. In the preferred embodiment, these microvascular endothelial cells are placed onto the implant by suspending them in a protein (plasma) containing physiologic saline solution, which is incubated on the graft until the endothelial cells either adhere to the graft surface or clot within the protein solution. An efficient method is therefore provided which will permit a patient to donate excess microvascularized tissue which may be used to procure autologous endothelial cells which are subsequently used to treat a graft or other implant to provide at least 50 percent confluence while his related surgical procedure is in progress.

0) US2016000501A – MEDICAL DEVICE HAVING A SUPPORT STRUCTURE

120) Family number: 57409877 (US2016000501A) © PatBase

Title: MEDICAL DEVICE HAVING A SUPPORT STRUCTURE

Priority: US20100926292 20101108 US20110286041 20111031 US20130777368P 20130312 US20130781231P 20130314 US20150851412 20150911 US20150851353 20150911 WO2014IB59696 20140312 WO2014IB59830 20140314

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Inventor(s):(std)**:** ABOU MARIE RUND ; DAVIES GARETH ; URBANSKI JOHN PAUL

Agent(s): KIPA AB; LIFSHITZ NIR

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

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Forward Citations: WO16073563, EP2967714,

Abstract:
Source: US2016000501A Embodiments of medical devices and methods are disclosed. The medical devices typically comprise a flexible elongate member defining a lumen, and a support spine affixed to the distal end and extending proximally therefrom within the elongate member lumen. In some embodiments, the support spine is configured to support at least a portion of the elongate member when the elongate member is bent or curved. Some embodiments include apertures at or near the distal end for enabling fluid communication between the lumen and the outside environment. In some embodiments, the support wire extends proximally from the distal end within a distal portion of the lumen such that a proximal portion of the lumen is substantially unobstructed, thereby reducing turbulence of fluid flowing through the lumen.

0) US2002082641A – CLOSURE DEVICE AND METHODS FOR MAKING AND USING...

121) Family number: 32222670 (US2002082641A) © PatBase

Title: CLOSURE DEVICE AND METHODS FOR MAKING AND USING THEM

Priority:

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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 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 SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): A61B17/00 A61B17/03 A61B17/06 A61B17/064 A61B17/068 A61B17/08 A61B17/10 A61B17/11 A61B17/12 A61B17/122 A61B19/00 A61D1/00 B21D31/00 C21D8/00 C21D9/00 C22F1/00 C22F1/16 H03F3/45 H03K3/356 H03K5/08 H03K5/22 (Advanced/Invention);
A61B17/00 A61B17/068 A61B19/00 H03K5/22 (Advanced/Non–invention);
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A61B17/068 A61B19/00 (Core/Non–invention);
A61B H03K (Subclass/Invention)

International class (IPC 1–7): A61B17/00 A61B17/064 A61B17/068 A61B17/08 A61B17/10 A61B17/12 A61D17/08 H03F3/45 H03K3/037 H03K3/356 H03K5/08 H03K5/22

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European class: A61B17/00P A61B17/064 A61B17/068 A61B17/08 A61B17/08C C22F1/00 C22F1/10 C22F1/16 H03K3/356G2D2 H03K3/356G2F2 K61B17/00A K61B17/00P11T K61B17/00P20 K61B17/00P7 K61B17/00S12 K61B17/064A K61B17/064D K61B17/068 K61B17/08A K61B19/54

US class: 1/1 148/559 148/563 148/563S 327/215 327/215P 327/65 327/89 341/156 341/159 427/2.1 427/2.100P 606/139 606/142 606/142P 606/151 606/151P 606/155 606/155P 606/158 606/213 606/213P 606/213S 606/216 606/221 72/364 72/364S

Classification Explorer

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AU2013267062, AU2003297432,

Abstract:
Source: US2002082641A A vascular clip includes a peripheral body defining a plane, and tines extending from the body transversely with respect to the plane, the tines biased towards a planar configuration. The clip includes expandable elements disposed along its periphery that are biased to expand from compressed to expanded states for increasing a diameter of the clip upon deployment. The clip is provided within a housing slidably mounted on an introducer sheath. The sheath is introduced through a puncture into a blood vessel, and after a procedure is performed via the sheath, the housing is advanced into the puncture and the clip deployed until the tines engage tissue adjacent the opening in the vessel wall. The sheath is withdrawn from the patient, leaving the clip in place. The tines at least partially move towards the planar configuration to pull the engaged tissue together and close the opening.

0) DE29807899U1 – DEVICE FOR THE PRODUCTION OF ELECTRO–CHEMICAL R...

122) Family number: 16960804 (DE29807899U1) © PatBase

Title: Device for the production of electro–chemical rivers

Priority: DE19982007899U 19980502

Family:

Publication number	Publication date	Application number	Application date
DE29807899 U1	19980709	DE19982007899U	19980502

Probable Assignee: SCHNORR WOLFGANG

Assignee(s):(std): SCHNORR WOLFGANG

Assignee(s): SCHNORR WOLFGANG 60437 FRANKFURT DE

International class (IPC 8–9): H01M4/06 H01M6/04 (Advanced/Invention); H01M4/06 H01M6/04 (Core/Invention)

International class (IPC 1–7): H01M14/00

CPC: H01M4/06 H01M6/04

European class: H01M4/06 H01M6/04 Y02E60/12

Classification Explorer

Abstract:
Source: DE29807899U1 (Claim 1) Gebrauchsmuster– A nmeldung / 4 8 1 2 6 11 / Wolfgang SchnorrSeite 1 zu Schutzansprueche Schutzansprueche 1) Vorrichtung zur Erzeugung elektrochemischer Stroeme, dadurch gekennzeichnet, dassein Metallblech (1), durch welches eine Elektrode dargestellt wird, in der Form eines Rohresgebogen ist, so dass durch das geformte Metallblech ein Kreiszylinder mit offenenGrundflaechen repraesentiert wird und von einer Klammer (2) umschlossen wird, welcheueber in mit der Klammer verbundene Oesen, welche jeweils mit einer Klemmvorrichtungversehen sind, einfassende Achsen (3) in der Weise mit zwei Standfuessen (4) verbundenist, dass das von der Klammer umschlossene rohrfoermig gebogene und in der Formgestaltungeines hohlen Kreiszylinders mit offenen Grundflaechen ausgebildete Metallblech (1) inder Weise ausgerichtet ist, dass die offenen Grundflaechen des durch das geformte Metallblechrepraesentierten Kreiszylinders parallel zur Ebene liegen, auf welcher die mit der dasgeformte Metallblech umfassenden Klammer verbundenen Standfuesse aufgesetzt sind, undsich eine offene Grundflaeche des Kreiszylinders oberhalb einer mit einer Fluessigkeit bef ue llbarenSchale (5) befindet; die mit der das geformte Metallblech umfassenden Klammer verbundenen Standfuesse auch in den Innenraum der mit einer Fluessigkeit befuellbare n Schaleeinfassen bzw.

Machine translation: (Claim 1) utility model A nmeldung/4 8 1 2 6 11/Wolfgang SchnorrSeite 1 to requirements for protection Requirements for protection 1) Device for the production of electro–chemical rivers, thereby characterized, that in Metallblech (1), by which an electrode is represented, in the form one is tubingcurved, so that by the formed Metallblech a circular cylinder with open surface areas is represented and by a clammy one (2) is enclosed, some over into eyes, which in each case are with clamping device mistake, connected with that clammy ones, setting in axles (3) in the way with two condition feet (4) group NIST that of that clammy one is aligned umschlossene the tubularly bent and in Formgestaltungeines of hollow circular cylinder with open surface areas trained Metallblech (1) Indian way that the open surface areas of the circular cylinder metal–sheet metal–represented by the formed parallel to the level, on which the condition feet connected with that–formed Metallblech comprehensive clammy one are put on, an open surface area of the circular cylinder above one with a liquid attachment ue llbarenSchale (5) lies is; the clammy ones of connected condition feet also into the interior of the n bowl setting, in fillable comprehensive with that the formed Metallblech, with a liquid and/or.

0) EP0943292A1 – SPIRAL PROBE SPIRALSONDE SONDE EN SPIRALE

123) Family number: 12905171 (EP0943292A1) © PatBase

Title: SPIRAL PROBE

Priority: DE19981012100 19980319

Family:

Publication number	Publication date	Application number	Application date
DE19812100 A1	19990930	DE19981012100	19980319
EP0943292 A1	19990922	EP19990105276	19990315

Probable Assignee: BRAUN MELSUNGEN AG

Assignee(s):(std)**:** BRAUN MELSUNGEN AG

Assignee(s): B BRAUN MELSUNGEN AG

Inventor(s):(std)**:** FRIMBERGER ECKART ; FRIMBERGER ECKART DR

Designated states: DE ES FR GB IT

International class (IPC 8–9)**:** A61B10/00 A61B10/04 (Advanced/Invention); A61B10/02 A61B17/00 (Advanced/Non–invention); A61B10/00 A61B10/02 (Core/Invention); A61B17/00 (Core/Non–invention)

International class (IPC 1–7)**:** A61B1/00 A61B10/00 A61M1/00 A61M25/00

CPC: A61B10/0266 A61B10/04 A61B2017/00685

European class: A61B10/00C4 A61B10/04 K61B10/02P6 K61B17/00Q2

Classification Explorer

Cited documents: WO9304630 A1, US5722423 A, US5653696 A, US5417703 A, US4054127 A, US3683891 A, DE3539444 A1,

Forward Citations: WO15123320, WO02089674, WO02065919, US8834352, US8652028, US7918783, US7341564, US7008381, US6840900, US2005130456, FR2809611,

Abstract:
The support probe is formed as a hollow probe (1), at least one channel of which is connected with the hollow chamber (12) of the hollow spiral (2). The hollow spiral at its front end has an aperture (10) for accommodation of a guide wire (11). Also at the front end of the hollow spiral is a rounded point closing the hollow chamber and enabling a non–traumatic introduction of the probe. The distances between adjacent spiral windings are variable by means of a draw string in the centre of the hollow probe and which is fixed to the rounded point.

124) Family number: 42524636 (US2008282888A) © PatBase

Title: TEMPERATURE SWING ADSORPTION OF CO2 FROM FLUE GAS USING A PARALLEL CHANNEL CONTRACTOR

Priority: US20070930827P 20070518 US20080080784 20080404 US20080152875 20080516 US20080152870 20080516 US20080152877 20080516 US20080152874 20080516 WO2008US06071 20080513 WO2008US06276 20080516 WO2008US06272 20080516 WO2008US06277 20080516 WO2008US06278 20080516

Family:

Publication number	Publication date	Application number	Application date
AU2008253666 AA	20081127	AU20080253666	20080513
AU2008253666 BB	20130131	AU20080253666	20080513
AU2008254512 AA	20081127	AU20080254512	20080516
AU2008254512 BB	20120301	AU20080254512	20080516
AU2008254516 AA	20081127	AU20080254516	20080516
AU2008254516 BB	20120405	AU20080254516	20080516
AU2008254535 AA	20081127	AU20080254535	20080516
AU2008254535 BB	20120531	AU20080254535	20080516
AU2008254961 AA	20081127	AU20080254961	20080516
AU2008254961 BB	20120329	AU20080254961	20080516
CA2688545 AA	20091118	CA20082688545	20080516
CA2688545 C	20130806	CA20082688545	20080516
CA2688551 AA	20091118	CA20082688551	20080516
CA2688551 C	20130910	CA20082688551	20080516
CA2688636 AA	20091118	CA20082688636	20080516
CA2688636 C	20130820	CA20082688636	20080516
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CA2688638 C	20160621	CA20082688638	20080516
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EA018899 B1	20131129	EA20090070973	20080513
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EP2164600 A1	20100324	EP20080767738	20080516
EP2164600 B1	20161019	EP20080767738	20080516
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EP2164603 B1	20161005	EP20080767744	20080516
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JP2010527755 T2	20100819	JP20100508437T	20080516	
JP2010527756 T2	20100819	JP20100508438T	20080516	
JP2010527757 T2	20100819	JP20100508439T	20080516	
JP5346926 B2	20131120	JP20100508436T	20080516	
JP5401447 B2	20140129	JP20100508438T	20080516	
JP5433569 B2	20140305	JP20100508388T	20080513	
JP5544288 B2	20140709	JP20100508439T	20080516	
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NO20093365 A	20100218	NO20090003365	20091118	
NO20093367 A	20100217	NO20090003367	20091118	
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Probable Assignee: EXXONMOBIL RESEARCH AND ENGINEERING CO

Assignee(s):(std)**:** CHANCE RONALD R ; CORCORAN EDWARD W ; CORCORAN EDWARD W JR ; CORCORAN JR EDWARD W ; DECKMAN HARRY W ; EXXONMOBIL RES AND ENG CO ; EXXONMOBIL RESERCH AND ENGINEE ; EXXONMOBIL UPSTREAM RES CO ; NORTHROP PAUL S ; HERSHKOWITZ FRANK ; KELLEY BRUCE T ; STERN DAVID L ; NORTHROP P SCOTT ; RAVIKOVITCH PETER I ; THOMAS EUGENE R

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Inventor(s):(std)**:** CHANCE RONALD R ; CORCORAN EDWARD W ; CORCORAN EDWARD W JR ; CORCORAN JR EDWARD W ; DECKMAN HARRY W ; HERSHKOWITZ FRANK ; KELLEY BRUCE T ; KELLY BRUCE T ; NORTHROP P SCOTT ; NORTHROP PAUL S ; RAVIKOVITCH PETER I ; REVIKOVITCH PETER I ; STERN DAVID L ; THOMAS EUGENE R

Inventor(s): RONALD R CHANCE ; BRUCE T KELLEY ; P SCOTT NORTHROP ; PETER I RAVIKOVITCH ; NORTHROP P ; EDWARD W CORCORAN ; EDWARD W CORCORAN JR ; EUGENE R THOMAS ; FRANK HERSHKOWITZ ; HARRY W DECKMAN ; DAVID L STERN

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; BORDEN LADNER GERVAIS LLP; MARESCHAL ANNE; SULEIMAN I AL AMMAR LAW OFFICE; KAWABI KENJI; DREW AND NAPIER LLC; EXXONMOBIL RESEARCH AND ENGINEERING COMPANY; EXXONMOBIL RESEARCH AND ENGINEERING CO; BRUCE M; HANK L; DAVID M; BAKUN ESTELLE C 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 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 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 ZA ZM ZW

International class (IPC 8–9): B01D53/02 B01D53/04 B01D53/047 B01D53/053 B01D53/28 B01D53/46 B01D53/50 B01D53/52 B01D53/54 B01D53/56 B01D53/60 B01D53/62 B01D53/74 B01D53/81 B01D53/96 B01J20/08 B01J20/10 B01J20/18 B01J20/20 B01J20/34 B01J29/04 C01B39/46 C07C7/12 C10L3/10 (Advanced/Invention); C07C7/12 C07C9/04 (Advanced/Non–invention); B01D53/02 B01D53/04 B01D53/047 B01D53/28 B01D53/46 B01D53/48 B01D53/50 B01D53/54 B01D53/56 B01D53/60 B01D53/62 B01D53/74 B01D53/81 B01D53/96 B01J20/06 B01J20/10 B01J20/20 B01J20/30 B01J29/00 C01B39/00 C07C7/00 C10L3/00 (Core/Invention); C07C7/00 C07C9/00 (Core/Non–invention)

International class (IPC 1–7): B01D53/04

CPC: B01D2253/308 B01D2256/10 B01D2257/102 Y02P20/152 B01D53/0407 B01D53/047 B01D2253/102 B01D2253/106 B01D2253/31 B01D2256/24 B01D2257/304 B01D2257/404 C07C7/12 C10L3/10 C10L3/102 B01D53/0423 B01D53/02 B01D53/0462 B01D2253/108 B01D2253/311 B01D2253/342 B01D2257/504 B01D2259/4143 Y02C10/08 Y02C10/04

European class: B01D53/02 B01D53/047 B01D53/04C B01D53/04C4 B01D53/04T C07C7/12 C10L3/10 C10L3/10B2 L01D253/102 L01D253/106 L01D253/108 L01D253/308 L01D253/310 L01D253/311 L01D253/342 L01D256/10 L01D256/24 L01D257/102 L01D257/304 L01D257/404 L01D257/504 L01D259/414B2 Y02C10/04 Y02C10/08

US class: 95/115 95/115P 95/126 95/126P 95/128 95/128S 95/130 95/130P 95/135 95/135S 95/136 95/136S 95/139 95/139S 95/148 95/148S 95/41 95/41P 95/96 96/108 96/130 96/134 96/140 96/140P 96/141

Classification Explorer

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JPS62176519, JPS60232234, JPS4712714, JP9187622 A2, JP8131767 A2, JP8131756 A2, JP6327936 A2, JP62225590 A2, JP62191021 A2, JP62176519 A2, JP62105906 A2, JP62046911 A2, JP60232234 A2, JP5237333 A2, JP47012714 A2, JP4083509 A2, JP3126613 A2, JP2135112 A2, JP2006507389 T2, JP2006142709 A2, JP2005519731 T2, JP2005296696 A2, JP2004535281 T2, JP2004535280 T2, JP2004202393 A2, JP2002105466 A2, JP2001340755 A2, JP2001276549 A2, JP2001205045 A2, JP1160816 A2, JP10502609 T2, JP10330173 A2, JP10259018 A2, GB2155805 A1, GB1283822 A, GB1238822 A, FR2794993 A1, ER1291067, ER1120149, EP1716906 A1, EP1710008 B1, EP1710008 A1, EP1674555 A1, EP1413348 A1, EP1291067 A2, EP1120149 A1, EP0862937 A2, EP0595100 A1, EP0426937 A1, EP0305919 A1, EP0145545 A2, EP0015545 B1, DE3427804 A1, DE3308304 A1, DE19744470 A1, DE10042601 A1, DE100042601, DE100042061, DE10004206 A1, CA2306311 AA,

Forward Citations: WO17074656, WO17074655, WO17053061, WO16186726, WO16186725, WO16122842, WO16105943, WO16105870, WO16094784, WO16092176, WO16076994, WO16014232, WO15117738, WO15117737, WO15080998, WO14039316, WO13163167, WO13138299, WO13117827, WO13106043, WO13106043, WO12118758, WO12118755, WO12118748, WO12118747, WO12118744, WO12118742, WO12118738, WO12118737, WO12118737, WO12118736, WO12118736, WO12085128, WO12064919, WO11106718, WO11061056, WO10151271, WO10129856, US9630143, US9617164, US9616378, US9593778, US9581062, US9580315, US9555365, US9533252, US9504989, US9499404, US9476356, US9463413, US9446349, US9433896, US9427726, US9365431, US9358493, US9352269, US9339754, US9316123, US9314731, US9308486, US9278305, US9272963, US9267685, US9266054, US9257365, US9233339, US9227153, US9205357, US9168485, US9168483, US9162175, US9156703, US9144766, US9138676, US9126138, US9120049, US9103584, US9103549, US9095809, US9073003, US9073001, US9073000, US9067168, US9062586, US9050553, US9034079, US9034078, US9028595, US9017457, US9011583, US9005561, US8974576, US8940072, US8921637, US8911536, US8906138, US8901030, US8900347, US8894747, US8865100, US8858690, US8858683, US8852322, US8821619, US8808426, US8784535, US8784534, US8784533, US8728218, US8673059, US8663367, US8585802, US8580018, US8500891, US8361200, US8202350, US7947120, US7938886, US7909913, US2016184771, US2016184770, US2016068392, US2015283501, US2015209718, US2015135952, US2015082986, US2015009631, US2014252276, US2014216639, US2014174295, US2014174291, US2014020413, US2014010719, US2013298532, US2013247762, US2013225898, US2013152612, US2013068101, US2012272823, US2012247330, US2012227583, US2012222553, US2012222552, US2011174017, US2011088549, US2011077447, US2011031103, US2010212493, US2010011955, US2008314245, US2008282888, RU2485330, JP2016506292, JP2015514011, JP2014530093, JP2014516771, JP2014514137, JP2014509558, JP2014188507, JP2014083488, JP2013524152, JP2013509300, JP2013500382, GB2478488, FR3029803, FR2988623, FR2986440, FR2969008, FR2967083, FR2952553, EP2781249, EP2767322, EA025720, EA025315, EA024199, EA024198, CN105032119, CN103990352, CN103517750, CN103429339, CN102665857, CN102665857, CN102126906, AU2012223563, AU2010245778,

Abstract:
Source: US2008282888A The adsorption of CO_2 from flue gas streams using temperature swing adsorption. Adsorbent contactors are used in the temperature swing adsorption unit that contain a plurality of substantially parallel channels comprised of or coated with an adsorbent material that is selective for adsorbing CO_2 from flue gas.

0) US4115273A – WAVE PATTERNED SUPPORT FOR DIALYZER MEMBRANE

125) Family number: 1453549 (US4115273A) © PatBase

Title: Wave patterned support for dialyzer membrane

Priority: US19760742359 19761115

Family:

Publication number	Publication date	Application number	Application date
AR214906 A1	19790815	AR19770269784	19771031
BE860798 A1	19780516	BE19770182599	19771114
BR7707278 A	19780711	BR19770007278	19771031
CA1079651 A1	19800617	CA19770288587	19771012
DE2747904 A1	19780518	DE19772747904	19771026
FR2370497 A1	19780609	FR19770034032	19771110
GB1589399 A	19810513	GB19770042604	19771013
JP53087600 A2	19780802	JP19770136536	19771114
MX145131 A	19820106	MX19770171095	19771026
NL7712571 A	19780517	NL19770012571	19771115
SE7711463 A	19780516	SE19770011463	19771012
SE7711463 L	19780516	SE19770011463	19771012
US4115273 A	19780919	US19760742359	19761115

Probable Assignee: EXTRACORPOREAL MED SPEC

Assignee(s):(std)**:** EXTRACORPOREAL MED SPEC ; EXTRACORPOREAL MEDICAL ; EKUSUTORAKOOPOORIARU MEDEIKARU

Assignee(s): EXTRACORP MED SPEC INC ; EXTRACORPOREAL MEDICAL SPECIALTI ; EXTRACORPOREAL MEDICAL SPECIALTIES ; EXTRACORPOREAL MEDICAL SPECIALTIES INC ; EXTRACORPOREAL MEDICAL SPECIALTIES INC TE KING OF ; EXTRACORPOREAL MEDICAL SPECIALTIES INC TE KING OF PRUSSIA PENNSYLVANIE VER ST V AM ; WINSTEAD THOMAS W

Inventor(s):(std)**:** WINSTEAD T ; WINSTEAD T W ; WINSTEAD THOMAS W ; TOOMASU DABURIYU UINSUTETSUDO

Inventor(s): W WINSTEAD THOMAS ; T W WINSTEAD

International class(IPC 8–9)**:** A61M1/16 A61M1/20 A61M1/22 A61M1/24 B01D63/10 B01D69/10 (Advanced/Invention); A61M1/16 B01D63/10 B01D69/00 (Core/Invention); A61M (Subclass/Invention)

International class(IPC 1–7)**:** A61M1/03 B01D13/00 B01D31/00

CPC: B01D61/28 B01D63/10 B01D2313/143

European class: A61M1/03B6B B01D61/28 B01D63/10 L01D313/14B

US class: 210/321.74 210/321A 210/497.1

Classification Explorer

Cited documents: US3960730 A, US3738813 A, FR2267118 A1, FR1545932 A,

Forward Citations: WO8402275, WO11110161, WO10151419, US9579440, US9545469, US9504777, US9402945, US9328969, US9138687, US8801922, US8580161, US8524086, US8501009, US8273245, US8137554, US4636310, US4636309, US2010326916, US2010326914, US2009211977, US2004060867, EP0111423, CN103384543,

Abstract:
Source: US4115273A An extracorporeal, disposable, dialyzer for use in a variety of artificial kidney or other mass transfer systems, which includes a sheet of plastic material supporting a flattened tube of membrane material, the sheet of support material consists of a continuous sheet of contoured, substantially uniform thickness material including a series of spaced apart hollow protrusions extending outwardly from each side thereof, the summits of the hollow protrusions defining membrane support surfaces on each side of the sheet, and the summits being arranged with respect to each other in predetermined wave patterns dimensioned and arranged such that, when

an elongated length of the sheet is formed into a roll having predetermined inner and outer peripheral dimensions, the wave patterns will never be directly superimposed thereby avoiding the tendency of corresponding hollow protrusions to interdigitate and occlude the fluid flow passages.

0) US2007235050A – SMOKING ARTICLE WITH A RESTRICTOR

126) Family number: 38528416 (US2007235050A) © PatBase

Title: SMOKING ARTICLE WITH A RESTRICTOR

Priority: US20060786352P 20060328 US20060858407P 20061113 US20070905833P 20070309 US20070727825 20070328 WO2007GB01144 20070328 US20110987786 20110110 WO2007IB04224 20071113

Family:

Publication number	Publication date	Application number	Application date
AU2007231147 AA	20071004	AU20070231147	20070328
AU2007231147 BB	20130523	AU20070231147	20070328
AU2007320875 AA	20080522	AU20070320875	20071113
BRPI0709264 A2	20110628	BR2007PI09264	20070328
BRPI0718607 A2	20131217	BR2007PI18607	20071113
CN101442917 A	20090527	CN200780016429	20070328
CN101442917 B	20120801	CN200780016429	20070328
CN101616610 A	20091230	CN200780042181	20071113
CN101616610 B	20120523	CN200780042181	20071113
CO6140007 A2	20100319	CO20080115240	20081028
CO6190586 A2	20100819	CO20090059240	20090608
EA013553 B1	20100630	EA20090070482	20071113
EA015068 B1	20110429	EA20080070378	20070328
EA200870378 A1	20090828	EA20080070378	20070328
EA200970482 A1	20090828	EA20090070482	20071113
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NO20092288 A	20090612	NO20090002288	20090612
NZ571453 A	20110930	NZ20070571453	20070328
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US2011100388 AA	20110505	US20110987786	20110110
US7878963 BB	20110201	US20070727825	20070328
US9060546 BB	20150623	US20110987786	20110110
WO07110650 A1	20071004	WO2007GB01144	20070328
WO08059377 A2	20080522	WO2007IB04224	20071113
WO08059377 A3	20080731	WO2007IB04224	20071113

Probable Assignee: PHILIP MORRIS USA INC

Assignee(s):(std)**:** BRAUNSHTEYN MIKE ; DWYER ROLAND W ; DWYER ROWLAND W ; GARTHAFFNER MARTIN ; JUPE RICHARD ; LI SAN ; OLEGARIO RAQUEL ; WILLIAMS DWIGHT ; PHILIP MORRIS PROD ; SNYDER TONY ; PHILIP MORRIS USA INC ; PHILIP MORRIS PRODUCTS SA ; PHILIP MORRIS INT INC

Assignee(s): PHILIP MORRIS PRODUCTS S A

Inventor(s):(std)**:** DWYER ROLAND ; DWYER ROLAND W ; DWYER RONALD W ; DWYER ROWLAND ; DWYER ROWLAND W ; GARTHAFFNER MARTIM ; GARTHAFFNER MARTIN ; JUPE RICHARD ; LI SAN ; MARTIN GARTHAFFNER ; MIKE BRAUNSHTEYN ; OLEGARIO RAQUEL ; OLEGARIO RAQUEL M ; RAQUEL OLEGARIO ; RICHARD JUPE ; SAN LI ; SNYDER TONY ; TONY SNYDER ; WILLIAMS DWIGHT ; WILLIAMS DWIGTH ; WILLIAMS DWYGHT ; BRAUNSHTEYN MIKE ; DWIGHT WILLIAMS

Inventor(s): DWIGTH WILLIAMS ; ROLAND DWYER ; ROLAND W DWYER ; ROWLAND W DWYER ; RAQUEL M OLEGARIO ; MARTIM GARTHAFFNER

Agent(s): CALLINANS; FISHER ADAMS KELLY CALLINANS; LUZ CLEMENCIA DE PAEZ; TAYLOR GILLIAN CLAIRE; MARLOW NICHOLAS SIMON; BUCHANAN INGERSOLL AND ROONEY PC

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 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 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 ZA ZM ZW

International class (IPC 8–9): A24C5/00 A24C5/52 A24C5/58 A24D3/04 A24D3/06 A24D3/10 A24D3/16 B31C99/00 (Advanced/Invention); A24C5/00 A24D3/00 (Core/Invention)

CPC: A24D3/043 A24D3/045 A24C5/52 A24C5/586

European class: A24D3/04B A24D3/04C

US class: 1/1 131/331 131/338 131/339 131/340 131/345 131/345S 131/361 131/361S 493/47

Classification Explorer

Cited documents: WO9926495, WO9009741, WO07110650 A1, WO07093757 A1, WO06082529, WO06070289, WO0203819, WO0113745 A1, WO0000047 A1, US8539957 BB, US8424540 BB, US8424539 BB, US8353302 BB, US8353298 BB, US8240315 BB, US8235057 BB, US8235056 BB, US8109277 BB, US7987856 BB, US7914622 BB, US7836895 BB, US7552735 BB, US7240678 BB, US6883523 BB, US6883516 BB, US6823873 BB, US6814786 BA, US6779529 BB, US6761176 BB, US6761174 BB, US6742525 BB, US6718989 BA, US6502580 BA, US6345625 BA, US6257242 BA, US6216706 BA, US6089238 A, US6062228 A, US5979459 A, US5954061 A, US5839449 A, US5746230 A, US5743251 A, US5727571 A, US5724998 A, US5715844 A, US5709227 A, US5690127 A, US5666976 A, US5598868 A, US5584306 A, US5568819 A, US5533530 A, US5524647 A, US5458107 A, US5435326 A, US5392793 A, US5392792 A, US5360023 A, US5203354 A, US5190061 A, US5178166 A, US5152304 A, US5129408 A, US5105838 A, US5105836 A, US5101839 A, US5099864 A, US5074319 A, US5060676 A, US5058608 A, US5050621 A, US5046514 A, US4984588 A, US4972854 A, US4972853 A, US4962774 A, US4949736 A, US4942887 A, US4924886 A, US4896682 A, US4867182 A, US4793365 A, US4791943 A, US4784632 A, US4754766 A, US4732168 A, US4702263 A, US4700726 A, US4687008 A, US4677992 A, US4660579 A, US4649944 A, US4646762 A, US4637409 A, US4622982 A, US4620553 A, US4617946 A, US4585015 A, US4574820 A, US4564030 A, US4559955 A, US4542755 A, US4515170 A, US4508525 A, US4506683 A, US4469112 A, US4460001 A, US4421126 A, US4386618 A, US4380241 A, US4357950 A, US4343319 A, US4341228 A, US4340072 A, US4292983 A, US4273141 A, US4256126 A, US4256122 A, US4197863 A, US4186756 A, US4182349 A, US4158364 A, US4135523 A, US4120310 A, US4119105 A, US4091821 A, US4038994 A, US4022222 A, US4016887 A, US3986515 A, US3968804 A, US3931824 A, US3877470 A, US3860011 A, US3759270 A, US3756249 A, US3738375 A, US3685522 A, US3648712 A, US3646941 A, US3638661 A, US3637447 A, US3630210 A, US3599646 A, US3581748 A, US3504677 A, US3496945 A, US3457927 A, US3441028 A, US3395713 A, US3389705 A, US3356094 A, US3323525 A, US3318312 A, US3292635 A, US3283762 A, US3255760 A, US3236244 A, US3234949 A, US3098492 A, US2979058 A, US2954786 A, US2954783 A, US2954778 A, US2954772 A, US2769734 A, US2764513 A, US2598680 A, US2592554 A, US2592553 A, US2547119 A, US2511898 A, US2010288293 AA, US2008216853 AA, US2008216851 AA, US2008216850 AA, US2008216848 AA, US2008163877 AA, US2008047571 AA, US2008035162 AA, US2008017204 AA, US2007261706 AA, US2007186945 AA, US2007181140 AA, US2007169785 AA, US2006201524 AA, US2005066981 AA, US2004261807 AA, US2004159327 AA, US2004025890 AA, US2003200976 AA, US2003200973 AA, US2002166561 AA, NZ216244, NZ19697, JP8205844 A2, JP7147964 A2, JP4079875 A2, JP2007520204 T2, GB2177890 A1, GB2149287 A1, GB2100573 A1, GB1428018, GB1256154 A, GB1245518 A, GB1236344 A, GB1228747 A, GB1058342 A, FR2873899

A1, FR2481581, EP0568107, EP0482872 A1, EP0481596 B1, EP0471581 A1, EP0364256 A1, EP0327655 A1, EP0212879 A1, EP0101840, EP0077123 A2, EP0054705 A1, DE3439861 A1, BE679657 A, BE1000454 AE,

Forward Citations: WO17055500, WO15181354, WO15145747, WO15022347, WO14143169, WO14132045, WO14132045, WO14102096, WO14102095, WO14102095, WO14102094, WO14023557, WO14023555, WO13068100, WO13068081, WO13045911, WO13034512, WO12126721, WO11117754, WO11117754, WO11042175, WO11042173, WO10010397, WO09147122, WO09147122, WO08110934, WO08110934, WO08110931, WO08110931, WO08110929, WO08110929, WO08068458, US9592963, US9550630, US9278814, US9185939, US9138016, US9060546, US8967155, US8905037, US8858889, US8434499, US8424540, US8424539, US8393334, US8353302, US8353298, US8240315, US8235057, US8235056, US8109277, US7987856, US7878963, US2015027475, US2014224268, US2012258014, US2011186063, RU2600911, RU2562793, KR101396023, KR101362616, JP2015518730, EP2537428, EP2043465, EA019871, EA017643, EA016243, CN103501644, CN103501644, CN102711532, CN102427742, AU2013301768, AU2013301768, AU2012230553,

Abstract:
Source: US2007235050A A smoking article filter includes a flow restrictor and a cavity downstream of the flow restrictor. The flow restrictor includes an orifice or flow channel for directing smoke into the cavity. The filter is attached to the tobacco rod with tipping paper and includes an air−admissible ventilating zone at a location downstream of the restrictor.

0) US5538642A – SPIRAL WOUND MEMBRANE ELEMENT

127) Family number: 20244616 (US5538642A) © PatBase

Title: SPIRAL WOUND MEMBRANE ELEMENT

Priority: EP19920911212 19920501 WO1992US03650 19920501

Family:

Publication number	Publication date	Application number	Application date
AT165528 E	19980515	AT19920911212T	19920501
AU199218890 A1	19931129	AU19920018890	19920501
DE69225338 D1	19980604	DE19926025338	19920501
DK0640006 T3	19990215	DK19920911212T	19920501
EP0640006 A1	19950301	EP19920911212	19920501
EP0640006 A4	19960403	EP19920911212	19920501
EP0640006 B1	19980429	EP19920911212	19920501
US5538642 A	19960723	US19940318830	19941019
WO9322038 A1	19931111	WO1992US03650	19920501

Probable Assignee: DOW CHEMICAL CO

Assignee(s):(std)**:** DOW CHEMICAL CO ; FILM TEC CORP ; FILMTEC CORP ; SOLIE GREGORY D

Assignee(s): FILMTEC CORP MINNEAPOLIS MINN US

Inventor(s):(std)**:** SOLIE GREGORY D

Inventor(s): GREGORY D SOLIE

Designated states: AT AU BE BF BJ BR CA CF CG CH CI CM DE DK ES FI FR GA GB GN GR HU IT JP KR LI LU MC ML MR NL NO PL RO RU SE SN TD TG US

International class (IPC 8–9): B01D53/22 B01D61/10 B01D63/00 B01D63/10 (Advanced/Invention); B01D63/00 (Advanced/Non–invention); B01D53/22 B01D61/02 B01D63/00 B01D63/10 (Core/Invention)

International class (IPC 1–7): B01D61/10 B01D63/10

CPC: B01D53/22 B01D63/10 B01D2313/14 B01D2313/143 B01D2313/146

European class: B01D53/22 B01D63/10 L01D313/14

US class: 210/321.83 210/652

Classification Explorer

Cited documents: US5073263 A, US4802982 A, US4765893 A, US4137113 A, US3966616 A, US3386583 A, FR2448925 A1, EP0448973 A1,

Forward Citations: WO17085461, WO17058496, WO17053709, WO16167832, WO16167831, WO16048923, WO15153116, WO15105632, WO15105630, WO14176067, WO14163950, WO13130312, WO13085701, WO13015971, WO12058038, WO11119280, WO11087536, WO11053452, WO11049790, WO11005657, WO10036374, WO0232533, WO0232533, US9522363, US9517438, US9452390, US9409131, US9387445, US9309205, US8991027, US8911625, US8778182, US8661648, US8571296, US8562876, US8529762, US8496825, US8454829, US8348499, US8272251, US8142657, US8142588, US8114478, US8034241, US7951295, US7875177, US7698928, US7335301, US7172696, US7156997, US6902672, US6881336, US6673242, US6632356, US6413424, US6352641, US6183639, US6153098, US6068771, US5911883, US2014224726, US2011232061, US2011174429, US2011170572, US2011094660, US2011091094, US2010140161, US2009277825, US2009139925, US2008105038, US2007272628, US2004226876, US2004099598, US2003098272, TWI319997, EP2319612, EP1414554, EP0819466, DE102007037766, CN102223944,

Abstract:
Source: US5538642A PCT No. PCT/US92/03650 Sec. 371 Date Oct. 19, 1994 Sec. 102(e) Date Oct. 19, 1994 PCT Filed May 1, 1992 PCT Pub. No. WO93/22038 PCT Pub. Date Nov. 11, 1993Spiral wound membrane elements have permeate flow channels attached to a porous polymeric mandrel in a regular and closely spaced array. The permeate flow channels are attached to the mandrel by means of ultrasonic welding. The attaching

means permits the attachment of a high density of permeate flow channels.

0) US2005223885A – CONTROLLED–FLOW HYDRAULIC DISTRIBUTOR

128) Family number: 30688398 (US2005223885A) © PatBase

Title: CONTROLLED–FLOW HYDRAULIC DISTRIBUTOR

Priority: EP20020796964 20021217 WO2002IT00798 20021217

Family:

Publication number	Publication date	Application number	Application date
AT336663 E	20060915	AT20020796964T	20021217
AU2002361499 AA	20040709	AU20020361499	20021217
DE60214053 D1	20060928	DE20026014053	20021217
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EP1573209 B1	20060816	EP20020796964	20021217
ES2271367 T3	20070416	ES20020796964T	20021217
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US7264019 BB	20070904	US20020524201	20021217
WO04055385 A1	20040701	WO2002IT00798	20021217

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Assignee(s): NEM SPA ; NEM SRL

Inventor(s):(std)**:** MANFREDI DANILO

Inventor(s): DANILO MANFREDI

Agent(s): YOUNG AND THOMPSON

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

International class (IPC 8–9): F15B11/05 F16K1/00 G05D16/20 (Advanced/Invention); F15B11/00 F16K1/00 G05D16/20 (Core/Invention)

International class (IPC 1–7): F15B11/05 F15B11/08

CPC: G05D7/005 F15B11/044 F15B11/05 F15B13/042 F15B13/0442 Y10T137/7925 Y10T137/88054 F15B13/0416

European class: G05D16/20

US class: 137/538 137/614.2 91/418 91/432 91/439

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Abstract:
Source: US2005223885A The hydraulic distributor exhibits a cylindrical and internally–hollow body (**2**) having an inlet chamber (**3**) for a fluid and an outlet chamber (**4**) which are interconnected directly (by a communication conduit), or indirectly by an external distributor. A cursor (**7**) is axially mobile in the hollow body (**2**) and a closing element (**12**) is associated to the cursor (**7**) by elastic elements (**11**). The closing element (**12**) is mobile in the inlet chamber (**3**) between a first position in which it occludes the inlet chamber (**3**) and a second position in which it permits passage of fluid from an antechamber (**3***a*) to a second opening (**3***b*).

0) US2002095206A – STENT HAVING HELICAL ELEMENTS

129) Family number: 28692803 (US2002095206A) © PatBase

Title: STENT HAVING HELICAL ELEMENTS

Priority:

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EP20100184477	20011211	EP20020709424	20020208	EP20100184477	20100930
JP19980167147	19980615	JP20020588879	20020208	US19980094402	19980610
US20000254688P	20001211	EP20100184599	20011211	EP20100184636	20011211
EP20150154813	20011211	US20000254688	20001211	US20020071071	20020208
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WO2001US48034	20011211	US20100727567	20100319	US20100878232	20100909
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Family:

Publication number	Publication date	Application number	Application date
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Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

International class (IPC 8–9): A61F2/04 A61F2/06 A61F2/82 A61F2/84 A61F2/88 A61F2/90 A61F2/91
A61F2/915 (Advanced/Invention);
A61F2/88 (Advanced/Non–invention);
A61F2/06 A61F2/82 (Core/Invention)

International class (IPC 1–7): A61F A61F2/06 A61M29/00 A61M29/02

CPC: A61F2230/0054 A61F2220/0058 A61F2/88 A61F2002/91541 A61F2002/9155 A61F2230/0013 A61F2/915 A61F2002/91508 A61F2002/91516 A61F2002/91525 A61F2002/91533 A61F2002/91558 A61F2002/91583

European class: A61F2/06S6N2 A61F2/91 A61F2/915 K61F2/88 K61F2/915 K61F2/915B K61F2/915D K61F2/915E K61F2/915F K61F2/915F2 K61F2/915G K61F2/915G2 K61F2/915G7

US class: 606/191 606/198 62/3.116 62/3.122 623/1 623/1.15 623/1.150P 623/1.150S 623/1.16 623/1.160P 623/1.160S 623/1.17 623/1.170S 623/1.2 623/1.200P 623/1.22 623/1.220P 623/1.220S 623/11.5 623/11.7 623/116 623/12.2

Classification Explorer

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Abstract:
Source: US2002095206A An expandable stent comprised of a plurality of helical segments is disclosed. In one embodiment, the stent is generally cylindrical in shape having a cylindrical axis, and the comprises at least two a first and second set of helical segments. The helical segments in the first set are substantially parallel and have a first pitch forming a first helical angle with respect to the cylindrical axis. The helical segments in the second set are also generally parallel to each other and form a second pitch that differs from the first pitch, thereby forming a second helical angle with respect to the cylindrical axis. In an alternative embodiment, the stent comprises one set of helical segments and a plurality of circumferential elements that are joined together by the helical segments to form a plurality of cylindrical elements which are joined together to form a stent body. The stent may also have endzones.

0) US2014081298A – ROTATIONAL ATHERECTOMY DEVICE WITH A SYSTEM OF ...

130) Family number: 56018769 (US2014081298A) © PatBase

Title: ROTATIONAL ATHERECTOMY DEVICE WITH A SYSTEM OF ECCENTRIC ABRADING HEADS

Priority: US20120621398 20120917 US20160059349 20160303 WO2013US49064 20130702 US20160075979 20160321

Family:

Publication number	Publication date	Application number	Application date
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US2014081298 AA	20140320	US20120621398	20120917
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Probable Assignee: CARDIVASCULAR SYSTEMS

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Agent(s): HODGKINSON MCINNES PATENTS; IP SOLVED ANZ PTY LTD; ALLENS PATENT AND TRADE MARK ATTORNEYS; BROUILLETTE AND ASSOCIES PARTNERS; VIERING JENTSCHURA AND PARTNER PATENT U RECHTSANWAELTE; FUKAMI PATENT OFFICE PC; BARNES AND THORNBURG LLP; STONE JEFFREY R

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 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 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

International class (IPC 8–9): A61B17/00 A61B17/22 A61B17/3207 A61M25/09 (Advanced/Invention); A61B17/32 A61M25/09 (Advanced/Non–invention); A61B A61M (Subclass/Invention)

CPC: A61M25/09 A61B17/320758 A61B2017/320004 A61B2017/320766 A61M2025/09083 A61M2025/09183

US class: 1/1 606/159

Classification Explorer

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Forward Citations: WO16108860,

Abstract:
Source: US2014081298A The invention provides a rotational atherectomy device having, in various embodiments, a flexible, elongated, rotatable drive shaft with a system of eccentric abrading heads attached thereto. At least part of the eccentric enlarged abrading heads in the system have a tissue removing surface−the abrading heads may be at least partially hollow. Preferably the abrading heads have centers of mass spaced radially from the rotational axis of the drive shaft, facilitating the ability of the system of abrading heads to work together to open the stenotic lesion to a diameter larger than the outer resting diameter of the abrading heads when operated at high speeds. Therefore, certain embodiments comprise a system having unbalanced centers of mass to not only stimulate greater rotational diameters but also arranged in a manner whereby a debris−removing augering effect occurs. Other embodiments may comprise systems having abrading heads with balanced centers of mass.

0) US6699331B – ENDOSCOPE CLEANING DEVICE

131) Family number: 20664596 (US6699331B) © PatBase

Title: ENDOSCOPE CLEANING DEVICE

Priority: AU1998PP05370 19980820 AU19990054983 19990819 WO1999AU00669 19990819

Family:

Publication number	Publication date	Application number	Application date
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Inventor(s): S KRITZLER

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; BLAKE CASSELS AND GRAYDON LLP

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

International class (IPC 8–9): A61B1/12 A61B17/32 A61B19/00 B08B9/02 B08B9/04 (Advanced/Invention); A61B1/12 C11D3/386 (Advanced/Non–invention); A61B1/12 A61B19/00 B08B9/02 (Core/Invention); A61B1/12 C11D3/38 (Core/Non–invention)

International class (IPC 1–7): A61B1/00 A61B1/12 A61B17/32 A61B19/00 B08B9/02 B08B9/04

CPC: A61B2090/701 B08B9/0436 A61B1/122 A61B17/221 A61B2017/22034

European class: A61B17/221 B08B9/043M K61B1/12D1 K61B17/22E6 K61B19/34B

US class: 134/22.11 134/22.14 134/8 15/104.05 15/104.16

Classification Explorer

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Forward Citations: WO17006684, WO16079788, WO15148495, WO08122807, WO08122807, WO08048823, WO08048823, WO07101748, WO07013196, WO07002990, WO06123941, WO04098654, WO04098654, WO04012573, WO04012573, WO0128406, US9662133, US9615893, US9597159, US9579012, US9480537, US9445714, US9398837, US9386907, US9366496, US9332891, US9232935, US9194114, US9113948, US9113947, US9095286, US8991408, US8951355, US8939287, US8926507, US8850650, US8793918, US8783787, US8752230, US8708889, US8702662, US8668642, US8601633, US8566995, US8534287, US8490235, US8468637, US8458844, US8388759, US8382908, US8381345, US8262645, US8256057, US8246752, US8157919, US8048233, US7959740, US7951243, US7854728, US7524673, US7468272, US7465536, US6928686, US6889402, US2015313681, US2015305819, US2014213991, US2014090194, US2013220855, US2013091753, US2011289705, US2011106019, US2011023887, US2010192320, US2010065083, US2009188531, US2009049627, US2008200101, US2008098543, US2006269445, US2004187892, US2004092956, US2003000035, JP2009022643, JP2008540026, FR2842751, EP2918220, EP1958731, EP1907137, EP1881874, EP1881874, EP1827556, DE202009006908, DE202007000793, DE102009011204, DE102006022366, CN105051176, CN104179354, AU781777, AU2006248187, AU2004235782,

Abstract:
Source: US6699331B Apparatus for wiping a contaminated lumen of an endoscope including a cleaning member having at least one radially extending fin for passing axially through the lumen with at most a small clearance whereby contamination remaining after passage of the member through the lumen is substantially uniformly distributed as a thin film on an internal wall of the lumen. The invention also relates to a method for cleaning a contaminated lumen of an endoscope including pulling or pushing a cleaning member axially through the lumen and treating the uniformly distributed film with a cleaning composition.

0) US2003160774A – INFORMATION PROCESSING APPARATUS, INFORMATION P...

132) Family number: 29431905 (US2003160774A) © PatBase

Title: INFORMATION PROCESSING APPARATUS, INFORMATION PROCESSING METHOD, INFORMATION PROCESSING PROGRAM FOR PERFORMING OUTPUT SETUP TO DEVICE APPARATUS, AND MEMORY MEDIUM STORING SUCH PROGRAM THEREIN

Priority:

JP19990039948	19990218	US20000505193	20000216	US20040769158	20040129
US20030443667P	20030130	US20040613742P	20040927	US20030390740	20030319
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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: SUREFIRE LLC

Assignee(s):(std)**:** CANON KK ; MINAGAWA TOMONORI ; SMITH DIANN Y ; SMITH RICHARD C ; SUREFIRE LLC

Assignee(s): CANON INC ; CANON KABUSHIKI KAISHA

Inventor(s):(std): MINAGAWA TOMONORI ; SMITH DIANN Y ; SMITH RICHARD C

Inventor(s): SMITH RICHARD ; SMITH DIANN

Agent(s): ROBERT D FISH RUTAN AND TUCKER LLP; FITZPATRICK CELLA HARPER AND SCINTO; MACPHERSON KWOK CHEN AND HEID LLP; HAYNES AND BOONE LLP IP SECTION; CARTE NORMAN E; NORMAN E; HAYNES AND BOONE 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 KP KR KZ LC 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

International class (IPC 8–9): A61F11/06 A61F11/10 G06F13/10 G06F15/00 G06F3/00 G06F3/048 G06F3/12 G06F9/44 G06F9/445 G06K15/00 H04B1/38 H04M1/00 H04M1/05 H04M1/60 H04R1/02 H04R1/10 H04R11/04 H04R25/00 H04R31/00 (Advanced/Invention); H04R1/28 H04R3/00 (Advanced/Non–invention); A61F11/00 H04B1/38 H04M1/00 H04R1/02 H04R11/00 H04R25/00 (Core/Invention)

International class (IPC 1–7): G06F13/10 G06F15/00 G06F3/12 G09G5/00 H04R H04R25/00

CPC: H04R2201/109 H04R2499/11 A61F11/08 A61F2011/085 H04R1/345 H04R5/033 H04R25/65 H04R1/1058 H04R1/10 G06F9/4411 G06F3/1205 G06F3/1206 G06F3/1253 G06F3/1284 G06K15/00 Y10T29/49005 H04M1/05 H04R1/1041 H04R1/1033 H04M1/6058 H04R1/1016 H04R1/105 H04R1/1066 H04R1/1075 H04R1/2876 H04R3/007 H04R2201/107 H04R2420/07 H04R2420/09

European class: A61F11/08 G06F3/12A2A12 G06F3/12A2A14 G06F3/12A4M24 G06F3/12A6L G06F9/44A4 G06K15/00 H04M1/05 H04M1/60T2B H04R1/10B H04R1/10E H04R1/10M H04R1/10M4 H04R25/65 K61F11/08C T04R1/10B T04R1/10E T04R1/10H T04R1/10M T04R1/10M2 T04R1/10M4 T04R1/34C T04R201/107 T04R201/109 T04R499/11 T04R5/033

US class: 1/1 128/864 181/135 181/135S 29/594 29/594S 345/204 345/204P 345/764 358/1.13 381/313 381/313P 381/322 381/328 381/328P 381/361 381/361P 381/370 381/370S 381/371 381/371P 381/38 381/380 381/380P 381/380S 381/381 381/381P 381/382 381/382P 381/384 381/386 381/386S 381/72 381/72P 381/74 381/74S 455/518 455/519 455/569.1 455/569.100P 455/575.2 455/90.2 455/90.200P 455/90.200S 707/200 707/999.2 715/705 715/705P 715/764 715/764S 715/775 715/808 715/808S 715/810 715/810P 715/810S 715/840

Classification Explorer

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JP10049318 A2, JP10044531 A2, GB2085694 A1,

Forward Citations: WO15127402, WO15007174, WO14017922, WO13016336, WO12026864, WO11041541, WO10040351, WO10040350, WO08086901, USD788291, USD779461, USD776637, USD772203, USD763224, USD756972, USD756971, USD754324, USD754323, USD753098, USD735180, USD733865, USD728511, USD725626, USD720730, USD719549, USD719139, USD709609, USD709608, USD698762, USD698445, USD684253, USD682257, USD669057, USD659117, USD655693, USD645458, USD598469, US9621219, US9609029, US9607250, US9577697, US9560436, US9516435, US9515414, US9510084, US9479859, US9479856, US9462366, US9462145, US9437962, US9405497, US9398365, US9398364, US9398362, US9322131, US9294831, US9161114, US9143855, US9113266, US9042947, US8989426, US8976995, US8973703, US8964215, US8929582, US8891096, US8873786, US8761674, US8737669, US8736884, US8712088, US8699044, US8640039, US8630436, US8625834, US8611969, US8605927, US8600090, US8556024, US8550207, US8542371, US8311253, US8281514, US8254621, US8249287, US8243297, US8077340, US8004697, US7925725, US7841446, US7617247, US7506720, US7467237, US7394561, US7328224, US7228314, US7218976, US7145688, US2016215447, US2016100676, US2015215693, US2015184336, US2015139474, US2015110320, US2014286515, US2014270298, US2014119589, US2014115133, US2014055799, US2013338639, US2013251161, US2013197426, US2013100474, US2013010997, US2012176643, US2012155691, US2012087531, US2012081742, US2012020507, US2011299714, US2011188690, US2011182454, US2011135134, US2011128598, US2011109933, US2011075871, US2010300461, US2010296664, US2010278364, US2010214588, US2010208284, US2010195860, US2009293341, US2009095566, US2009022294, US2008291484, US2008231048, US2008204812, US2008170738, US2008101637, US2008011308, US2007276781, US2007254725, US2007076733, US2007002358, US2006177080, US2006170947, US2006167953, US2005270554, US2005159926, US2005156960, US2005117180, US2005094200, US2004042019, US2002161936, US2002067491, US2002065807, RU2577458, JP6008657, JP5795672, JP4994497, JP4438064, JP4157900, JP2014209804, JP2014106570, JP2014044563, JP2012170136, JP2011524703, JP2011060150, JP2010530659, JP2010003167, JP2008191946, JP2008165329, JP2007052807, JP2007011746, JP2006139675, GB2472885, FR3007608, EP3148212, EP3148211, EP3016406, EP2690883, EP2484319, EP2434777, EP2434777, EP2332343, EP2332343, EP2177045, EP1538522, CN104641658, CN103733640, CN103631543, CN103155588, CN103155588, AU2012211927, AP2569,

Abstract:
Source: US2003160774A In an output setup to a device apparatus, when the contents of a plurality of setting items are changed in a lump by using a compound setup consisting of a plurality of setting items, a mismatching of the set contents and a function of the device apparatus is avoided. For this purpose, according to the invention, when the compound setup can be used for a plurality of device apparatuses, the compound setup which is used for the designated device apparatus is selected, and in case of performing the output setup to the designated device apparatus by using the selected compound setup, whether the output can be performed by the contents of each setting item of the compound setup in the device apparatus or not is discriminated in accordance with the function of the device apparatus.

0) US2004193147A – ENERGY BASED DEVICES AND METHODS FOR TREATMENT ...

133) Family number: 31005310 (US2004193147A) © PatBase

Title: ENERGY BASED DEVICES AND METHODS FOR TREATMENT OF PATENT FORAMEN OVALE

Priority:

AU20040226425	20040326	AU20090206180	20090806	EP20040749470	20040326
JP20060509395	20040326	JP20060509417	20040326	US20030458854P	20030327
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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: SAP SE

Assignee(s):(std)**:** GROSS ANTONIA ; GIFFORD HANSON ; ELFNER STEFAN ; FRANKE STEFAN ; GEISER HARALD ; GOLL MICHAEL ; GNAN WERNER ; GROSS PATRICK ; GSCHWENDER GERHARD ; HENDRICKS JOERG ; HENGEVOSS WOLF ; HETZER STEPHAN ; HOFMANN CHRISTINE ; JAECK VOLKER ; KELNBERGER BERNHARD ; GROSSMANN TORALF ; GNAN WERNERE ; HARTMANN NILS ; GOLDMANN DANIEL ; ENGELSON ERIK ; FILLOUX DOMINIQUE ; GIFFORD III HANSON ; HOME KENNETH ; MALECKI WILLIAM ; SAP AG ; SEUBERT MICHAEL ; RASCH JOCHEN ; KUEHL AXEL ; MORSCH ANDREAS ; SCHNEIDER ANDREAS ; SCHULER ARNULF ; KEMMER JOHANN ; KIWON ADAM ; KOETTER KARSTEN ; KRAEHMER THILO ; KUSTER CORINNE ; LEHNER CHRISTOPH ; LIEBOLD WERNER ; MAKRIS OTTO ; NOWOTNY DIETMAR ; NIETSCHKE THOMAS ; NIESWAND WOLFGANG ; PODHAJSKY GEORG ; POETSCHKE DOMINIC ; PYKA UWE ; RADCKE RUEDIGER ; REINEMUTH FRANK ; RIEKEN GREGOR ; RIPP VOLKER ; RITTER GERD ; SALA PAOLA ; SCHAPLER DANIELA ; SCHMITT MATTHIAS ; SCHUELER ARNULF ; SCHULZE DAGMAR ; SEILER REINHARD ; SIEVERS RALF ; KENNTNER JOACHIM ; MAAG THOMAS ; NITSCHKE THOMAS ; PETER MARKUS ; SEYLER REINER ; MORSOH ANDREAS ; SCHUELEF ARNULF ; SCHUELER ARMULF ; SCHULTZE DAGMAR ; KOESTER ARNDT ; NN RAMESH ; REDMANN MICHAEL ; KROMPHOLZ ANDREAS ; LOTZ MARCUS ; OPPERT TILL ; PANZER BRIT ; ADELMANN STEFAN ; ALEGANDRO JOSE ; ALEJANDRO JOSE ; ALVAREZ GABRIEL ; BECKER DIRK ; BIEHLER MARKUS ; BOCK DANIEL ; CIERRA INC ; DEEM MARK E ; BOLD ANDREAS ; BROSSLER ANDREAS ; BUCHMANN DANIEL ; COLLE RENZO ; DOERNER ROBERT ; EGETOFT KARSTEN ; DIELSCHNEIDER RALF ; DROUIN PHILLIPPE ; DELEDDA GIOVANI ; DELEDDA GIOVANNI ; DROUIN PHILIPPE ; FRANCIS DAN ; HORNE KENNETH ; GIFFORD HANSON S III ; GIFFORD III HANSON S ; WAGNER ANDRE ; STUHEC GUNTHER ; THOME FRANK ; WINKEL RUDOLPH ; YU TAO ; ZACHMANN JENS ; ZADRO RENATO ; ZIMMERNANN THEO ; WINKEL RUDOLF ; ZIMMERMAN THEO ; ZOELLER MICHAEL ; ZIMMERMANN THEO ; STUHEC GURTHER ; WEISS BURKHARD ; STOTZ SERGEJ ; ZIEMENDORF BRIT ; STEPHAN JAN ; TAIMISTO MIRIAM H ; KUMAR UDAY N ; PETER MARKUS A ; RASCH JOCHEN A ; TERUMO CORP

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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 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 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

International class (IPC 8–9): A01K5/02 A61B17/00 A61B17/03 A61B17/08 A61B17/10 A61B17/11 A61B17/115 A61B17/12 A61B17/28 A61B18/00 A61B18/02 A61B18/04 A61B18/12 A61B18/14 A61B18/18 A61B18/20 A61B19/00 A61F2/82 A61F2/84 A61M25/00 A61M25/01 A61N1/00 G06F17/00 G06F17/22 G06F17/30 G06F17/50 G06F19/00 G06Q10/00 G06Q10/06 G06Q10/10 G06Q30/00 G06Q40/00 G06Q40/02 G07B17/00 G07F17/30 (Advanced/Invention); A61B17/00 A61B17/11 A61B17/30 A61B17/34 A61B18/00 A61B19/00 A61B90/00 (Advanced/Non–invention); A61B17/00 A61B17/03 A61B17/12 A61B17/28 A61B18/00 A61B18/04 A61B18/12 A61B18/14 A61B18/18 A61B18/20 A61B19/00 A61F2/82 A61M25/00 A61M25/01 A61N1/00 G06F17/00 G06F17/22 G06F17/30 G06Q30/00 G06Q40/00 (Core/Invention); A61B19/00 (Core/Non–invention)

International class (IPC 1–7): A61B10/00 A61B17/00 A61B17/08 A61B18/04 A61B18/18 A61B19/00 A61D1/00 A61M G06Q30/00

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Classification Explorer

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Abstract:
Source: US2004193147A Methods and apparatus for treatment of patent foramen ovale (PFO) provide for applying energy to tissues adjacent the PFO with a catheter device to substantially close the PFO acutely. Apparatus generally includes a catheter device having at least one energy transmission member at or near its distal end configured to apply energy to PFO tissues to acutely, substantially close the PFO. Applied energy may

be monoploar or bipolar radiofrequency energy or any other suitable energy, such as laser, microwave, ultrasound, resistive heating or the like. Some embodiments of a catheter device further include one or more tissue apposition members near the distal end for helping bring PFO tissues together, such as a PFO covering member, a vacuum applying member and/or the like. PFO closure via energy−based approaches of the invention may help prevent stroke, treat migraine headache, and possibly treat or prevent other medical conditions.

134) Family number: 30418354 (US5399352A) © PatBase

Title: DEVICE FOR LOCAL DRUG DELIVERY AND METHODS FOR USING THE SAME

Priority: EP19950910886 19950127 US19930046622 19930414 US19960660203 19960603 US19940188248 19940128 US19970982537 19971202 WO1994US04081 19940413 WO1995US01080 19950127 WO1998US25029 19981123

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Designated states: AT AU BE BR CA CH CY DE DK ES FI FR GB GR IE IT JP LI LU MC NL PT SE

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Abstract:
Source: US5399352A A device for the local delivery of a substance into a natural tissue conduit in the mammalian body, having a first clement capable of contacting the lumen of the conduit and a second element which overlays first element, a reservoir being formed between the first element and the second element, the interior of the reservoir being capable of fluid communication with the conduit such that a substance placed in the reservoir is delivered into the conduit. Also provided are methods of locally delivering a substance into a natural tissue conduit in the mammalian body utilizing the device of the present invention.

0) US2012209217A – ADHESIVE AND PERIPHERAL SYSTEMS AND METHODS FOR...

135) Family number: 65600561 (US2012209217A) © PatBase

Title: ADHESIVE AND PERIPHERAL SYSTEMS AND METHODS FOR MEDICAL DEVICES

Priority: US20060772313P 20060209 US20060789243P 20060405 US20090613864 20091106 US20070704897 20070209 US20060793188P 20060419 US20060792188P 20060419

Family:

Publication number	Publication date	Application number	Application date
US2012209217 AA	20120816	US20090613864	20091106
US8679073 BB	20140325	US20090613864	20091106

Probable Assignee: DEKA PRODUCTS LP

Assignee(s):(std)**:** DEKA PRODUCTS LP ; GRAY LARRY B

Assignee(s): DEKA PRODUCTS PARTNERSHIP LTD

Inventor(s):(std)**:** GRAY LARRY B

Agent(s): MICHAEL SAQUET

International class (IPC 8–9)**:** A61M5/00 B67D7/08 B67D7/14 (Advanced/Invention)

US class: 604/244 604/86 604/88

Classification Explorer

Cited documents: US7985199 BB, US6685674 BB, US5487728 A, US4978338 A, US4755173 A, US2005101933 AA, US2004006316 AA, US2002120231 AA, US2002072720 AA,

Forward Citations: US9636455, US8881774, US2015005733, US2011186177,

Abstract:
Source: US2012209217A A repeater system may control a pump by using a repeater and a user interface. An adhesive patch system may be used for affixing a pump or other object to a human body. Such an adhesive patch system may include two sets of adhesive members, each member including an adhesive material on at least one side so as to attach to the body. The members of the first set are spaced to allow the members of the second set to attach to the body in spaces provided between the members of the first set, and the members of the second set are spaced to allow members of the first set to detach from the body without detaching the members of the second set. Also, fill stations and base stations are provided for personal pump systems.

0) US2001010107A – UPRIGHT VACUUM CLEANER WITH CYCLONIC AIR FLOW

136) Family number: 28148473 (US2001010107A)

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Title: UPRIGHT VACUUM CLEANER WITH CYCLONIC AIR FLOW

Priority:

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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: ROYAL APPLIANCE MFG

Assignee(s):(std)**:** NAT CITY BANK ; ROYAL APPLIANCE MFG ; ROYAL APPLIANCE MFG CO ; TECHTRONIC FLOOR CARE TECH LTD ; WRIGHT MICHAEL F ; TECHTRONIC FLOOR CARE TECHNOLOGY LTD

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Inventor(s): BARBECK CRAIG ; BAIR KENNETH ; REINDLE MARK ; GIBBS RICHARD

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International class (IPC 8–9): A47L5/00 A47L5/28 A47L5/30 A47L5/36 A47L9/10 A47L9/12 A47L9/16 B01D39/16 B01D45/12 B01D45/16 B01D46/10 B01D50/00 B04C5/13 B04C9/00 (Advanced/Invention)

International class (IPC 1–7): A47L5/00 A47L5/28 A47L9/10 A47L9/12 A47L9/16 A47L9/20 B01D45/12 B01D50/00

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European class: A47L5/28 A47L5/36B A47L9/12 A47L9/12D A47L9/16B A47L9/16D A47L9/16E2 A47L9/16F A47L9/16G B01D39/16K B01D45/12 B01D45/16 B01D46/10 B01D46/24F4 B01D46/52F B01D50/00B B04C5/13 B04C9/00 L01D279/55 L04C9/00E

US class: 15/340.1 15/347 15/347P 15/347S 15/350 15/351 15/351P 15/351S 15/352 15/352P 15/352S 15/353 15/353P 15/353S 5/533.7 5/542.9 5/548.2 55/337 55/337S 55/429 55/429S 55/459.1 55/482 55/DIG.3

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Abstract:
Source: US2001010107A An upright vacuum cleaner includes an upright housing section and a nozzle section. A cyclonic airflow dirt and dust separating chamber is defined in said upright housing section. A suction source pulls air and entrained dirt, dust, and other contaminants through a main suction opening formed in the underside of the nozzle and into the cyclonic airflow chamber. The cyclonic airflow chamber causes the suction airstream to travel in a cyclonic path such that the entrained contaminants are separated therefrom and deposited into a dirt container that defines the chamber. A main filter element filters residual contaminants from the suction airstream between the chamber and the suction source. The main filter element is preferably made from high−density polyethylene porous filter media. A final filter assembly filters the suction airstream discharged by the suction source to ensure that the air discharged into the atmosphere is contaminant free, including those contaminants introduced into the airstream by the suction source itself.

0) US2006089633A – DEVICES AND METHODS FOR TISSUE ACCESS

137) Family number: 41695460 (US2006089633A) © PatBase

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Priority:

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Probable Assignee: AMENDIA INC

Assignee(s):(std)**:** ARCENIO GREGORY B ; BAXANO INC ; BAXANO SURGICAL INC ; BLEICH JEFFERY L ; CHUNG WINNIE ; BORGSTROM AMIE R ; HLAVKA EDWIN J ; BLEAM JEFFEREY ; LEGUIDLEGUID RON ; GARABEDIAN ROBERT ; CANTORNA NESTOR C ; LEGUIDLEGUID RONALD ; BLEICH JEFFREY L ; MILLER ERIC C ; SCHMITZ GREGORY ; WALLACE MICHAEL P ; LEGUIDLEGUILD ROY ; LEGUIDLEGUILD RONALD ; SCHMITZ GREGORY P ; LEGUIDLEGUID ROY ; SHEINBERG MICHAEL A ; SHAPIRO JAMES ; SHEINBERG MICHAEL ; SUN BENJAMIN KAO SHING ; SUMMA CHRISTOPHER D ; MIMRAN RONNIE I ; SPISAK STEVEN A ; YURCHENCO JAMES ; SAADAT VAHID ; MILLER DAVID R ; AMENDIA INC

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Agent(s): PEGASUS IP; BAXTER PATENT ATTORNEYS PTY LTD; IP SOLVED ANZ PTY LTD; BORDEN LADNER GERVAIS LLP; RUHRMANN ANDREA ELIZABETH ET AL; PROBERT GARETH DAVID; POTTER CLARKSON LLP; LEVINE BAGADE LLP; BAXANO INC AND TOWNSEND AND TOWNSEND AND CREW; SHAY GLENN LLP; BAXANO C/O SHAY LAW; BAXANO C O SHAY LAW; DAVID L; GLENN W BENJAMIN ET AL; COHEN DAVID C ET AL; SHAY JAMES R 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 TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): A61B1/00 A61B1/012 A61B1/06 A61B17/00 A61B17/02 A61B17/08 A61B17/14 A61B17/16 A61B17/17 A61B17/20 A61B17/28 A61B17/32 A61B17/3207 A61B17/34 A61B17/56 A61B17/60 A61B17/66 A61B17/70 A61B17/86 A61B17/88 A61B17/94 A61B18/04 A61B18/14 A61B18/18 A61B19/00 A61B5/00 A61B5/04 A61B5/0488 A61B5/05 A61B5/11 A61F11/00 A61F2/44 A61M25/00 A61M25/09 A61M5/32 A61N1/00 A61N1/05 (Advanced/Invention);
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US class: 1/1 128/898 128/898S 600/101 600/101P 600/104 600/104S 600/184 600/373 600/373P 600/373S 600/393 600/546 600/546P 600/554 600/554P 604/22 604/264 604/264S 604/274 604/274P 606/1 606/108 606/108S 606/114 606/114P 606/129 606/129S 606/151 606/151S 606/167 606/167P 606/167S 606/170 606/170P 606/205 606/249 606/249P 606/279 606/279S 606/32 606/32P 606/34 606/35 606/35P 606/39 606/39P 606/39S 606/41 606/53 606/53S 606/79 606/79P 606/82 606/83 606/83P 606/85 606/86.00R 606/86R 606/90 607/115 607/116 607/117 607/118 607/145 607/48

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Abstract:
Source: US2006089633A Methods and apparatus are provided for selective surgical removal of tissue, e.g., for enlargement of diseased spinal structures, such as impinged lateral recesses and pathologically narrowed neural foramen. In one variation, tissue may be ablated, resected, removed, or otherwise remodeled by standard small endoscopic tools delivered into the epidural space through an epidural needle. Once the sharp tip of the needle is in the epidural space, it is converted to a blunt tipped instrument for further safe advancement. A specially designed epidural catheter that is used to cover the previously sharp needle tip may also contain a fiberoptic cable. Further embodiments of the current invention include a double barreled epidural needle or other means for placement of a working channel for the placement of tools within the epidural space, beside the epidural instrument. The current invention includes specific tools that enable safe tissue modification in the epidural space, including a barrier that separates the area where tissue modification will take place from adjacent vulnerable neural and vascular structures. In one variation, a tissue abrasion device is provided including a thin belt or ribbon with an abrasive cutting surface. The device may be placed through the neural foramina of the spine and around the anterior border of a facet joint. Once properly positioned, a medical practitioner may enlarge the lateral recess and neural foramina via frictional abrasion, i.e., by sliding the abrasive surface of the ribbon across impinging tissues. A nerve stimulator optionally may be provided to reduce a risk of inadvertent neural abrasion. Additionally, safe epidural placement of the working barrier and epidural tissue modification tools may be further improved with the use of electrical nerve stimulation capabilities within the invention that, when combined with neural stimulation monitors, provide neural localization capabilities to the surgeon. The device optionally may be placed within a protective sheath that exposes the abrasive surface of the ribbon only in the area where tissue removal is desired. Furthermore, an endoscope may be incorporated into the device in order to monitor safe tissue removal. Finally, tissue remodeling within the epidural space may be ensured through the placement of compression dressings against remodeled tissue surfaces, or through the placement of tissue retention straps, belts or cables that are wrapped around and pull under tension aspects of the impinging soft tissue and bone in the posterior spinal canal.

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European class: A61B17/22B2 A61B17/3207R A61M25/00T10 A61M25/00T40 K61B17/00D K61B17/00Q2 K61B17/22B2B K61B17/22G K61B17/3207R2 K61M29/00

Classification Explorer

Cited documents: WO9501752 A1, WO9301753 A2, WO9214413 A1, US5643297 A, US5318576 A, US5304115 A, US5287858 A, US5100426 A, US5002553 A, US4994067 A, US4745919 A, US2437329 A, EP0472368 A2, EP0373927 A2, EP0315290 A1, DE9116000 U, DE9106690 U, DE3306213 A1,

Forward Citations: WO9960934, WO16022529, WO15186097, WO10146432, WO10146431, US9649123, US9055951, JP2015042317, EP2574294, CN102458275, CN102458275,

Abstract:
Disposable intra–arterial auger and dotter instruments (20) for use in patients in clearing pathways at obstructed or nearly obstructed arterial sites are disclosed. A number of auger tips (400, 402, 470, 490, 600, 700) used on the instruments are disclosed along with a method for releasibly affixing auger tips to the instruments. In addition, a dotter tip (520, 550, 560) is disclosed for use in procedures where it is desired to open a pathway without excising material from the obstructed site. A combined auger and dotter tip (750) is disclosed for a procedure in which material displacement followed by excising of material from within an artery is accomplished without removal of the combined auger and dotter tip until the procedure is complete.

139) Family number: 20712054 (GB863643A) © PatBase

Title: Improvements in or relating to sodium vapour electric discharge lamps

Priority: GB19580012722 19580422

Family:

Publication number	Publication date	Application number	Application date
GB863643 A	19610322	GB19580012722	19580422

Probable Assignee: GEN ELECTRIC CO LTD

Assignee(s):(std): GEN ELECTRIC CO LTD

Assignee(s): THE GENERAL ELECTRIC COMPANY LIMITED

Inventor(s):(std): FRENCH PHILIP RODNEY ; RIGDEN SYDNEY ALFRED RICHARD

International class (IPC 8–9): H01J61/34 H01J61/82 (Advanced/Invention); H01J61/00 H01J61/34 (Core/Invention)

CPC: H01J61/34 H01J61/825

European class: H01J61/34 H01J61/82B

Classification Explorer

Abstract:
Source: GB863643A 863,643. Discharge lamps. GENERAL ELECTRIC CO. Ltd. April 10, 1959 [April 22, 1958], No. 12722/58. Class 39(1). A discharge lamp comprises an envelope tube 1, of circular or oval cross–section, filled with a starting rare gas and with sodium vapour at low pressure–less than 1 mm. and about 0.01 mm., the envelope being mounted, or arranged to be mounted, within at single or double walled evacuated outer jacket 3 and having, over at least the greater –part of its overall length, substantially the form of a helically coiled tube including at least two complete turns, such overall length measured in a direction parallel to the helical axis being greater than the overall width of the envelope. The helically Coiled part of the tube 1 can be in the form of a single–start helix having a pitch which is not more than twice, and is preferably approximately one and a half times, the width of the envelope tube cross–section. Alternatively the helically coiled part of the tube can be in the form of a two–start helix, with the turns of the two helical elements evenly interleaved and connected together at one end of the helix, and with the pitch of each helical –element not more than four times, and preferably approximately three times, the width of the envelope tube cross–section. The diameter of the helix into which the envelope tube is coiled can be less than one half of the axial length of the helix. The discharge envelope can be sealed within an evacuated singlewalled outer jacket or mounted within a double–walled outer jacket, either of the kind in which. the envelope is sealed within the outer jacket with the space between the envelope and the inner wall of the jacket evacuated, or of the kind. in which the envelope is detachably mounted within an evacuated outer jacket with air present in the space between the envelope and the inner wall of the jacket. In the construction shown in the drawings the ends of the envelope 1 containing the electrodes 2 extend outwards from each other parallel to the axis of the helix and project through closely fitting holes in a pair of flexible discs 11, 12, e.g. of mica, which fit closely against the inner surface of the outer jacket 3, Fig. 1, or of a hollow cylindrical sleeve 19, Fig. 2, of transparent heat–insulating material, such as glass, interposed between the envelope 1 and the jacket 3. If desired the envelope at one end of the helix can be extended back along the middle of the helix so that the ends of the envelope are located at the same end of the helix. With 'a two–start helical envelope the ends of the envelope can also be located at the same end. The disc 11, Fig. 1, is held in position by a support wire 18 welded to one of the lead–in wires 6. The protruding ends of the electrode leads 7 at the foot–tube end of the envelope are bent radially outwards and connected to the turned–out end of the lead–in wire 6, by a welded metal sleeve 13. At the other end of the.envelope the electrode leads 7 are connected by a metal sleeve 15 to a wire 14 extending along the middle of the helix within a glass capillary tube, the opposite end of the wire being connected to the other lead–in wire 6. The evacuated space within the jacket 3 contains a getter element which may be spotwelded to one of the lead–in wires 6 and provides a coating of getter material on the internal wall of the jacket near the foot–tube 5. In the construction shown in Fig. 2 the cylindrical glass sleeve 19 is held in position by additional mica discs 20, 21, the disc 20 being supported by the lead–in wire 6 which urges the disc 20 against the end of the sleeve 19 and thus the Other end of the sleeve against the other disc 21. Transverse movement of the sleeve 19 is prevented at each end by a pair of wires 22 of approximately U–shape extending into the sleeve through holes in the discs. The ends of the wires 22 also bear against the discs 11 and 12. A getter element is provided within the evacuated jacket 3. The envelope can be constructed as a unit for detachable insertion within a double–walled Dewar jacket and can incorporate an insulating support member rigidly connected to one end of the envelope, the support member carrying input terminals and being shaped to fit within the central hole in an annular base member sealed to the open mouth of the Dewar jacket. The filling can be neon containing 0.8% by volume of argon at a total pressure of about 10 mms. together with about 2 grs. of sodium. The envelope is coated internally with a layer of sodium resistant glass.

0) US3848665A – DAMPER SLIDE FOR HOT BLAST SLIDE DAMPERS

140) Family number: 132896 (US3848665A) © PatBase

Title: DAMPER SLIDE FOR HOT BLAST SLIDE DAMPERS

Priority: DE19712124303 19710517

Family:

Publication number	Publication date	Application number	Application date
AU197242315 A1	19731122	AU19720042315	19720516
AU473414 B2	19760624	AU19720042315	19720516
BE782727 A1	19720816	BE19720782727	19720427
CA988710 A1	19760511	CA19720142248	19720516
DE2124303 A1	19721026	DE19712124303	19710517
FR2138035 A1	19721229	FR19720017654	19720517
FR2138035 B1	19730713	FR19720017654	19720517
GB1349817 A	19740410	GB19720023141	19720517
IT957713 A	19731020	IT19720050044	19720504
JP47044416 A2	19721222	JP19720048999	19720517
JP4744416 A2	19721222	JP19720048999	19720517
JP48026253 B4	19730808	JP19720048999	19720517
NL7205612 A	19721121	NL19720005612	19720425
SE379844 B	19751020	SE19720006393	19720516
SE379844 C	19760129	SE19720006393	19720516
US3848665 A	19741119	US19720251709	19720509

Probable Assignee: RAPPOLD AND CO GMBH HERMANN

Assignee(s):(std)**:** HERMANN RAPPOLD AND CO GMBH ; RAPPOLD AND CO GMBH HERMANN ; RAPPOLD H AND CO GMBH ; HERMANN RAPPOLD AND CO G M B H ; RAPPOLD H AND CO G M B H ; RAPPOLD H U CO GMBH

Assignee(s): UERLICHS JOHANNES ; HERMANN RAPPOLD AND CO G M B H DURENER STRASSE 1 ; HERMANN RAPPOLD AND CO G M B H DURENER STRASSE 121 DUREN ALLEMAGNE ; RAPPOLD AND CO GMBH DT ; RAPPOLD CO GMBH HERMAN ; RAPPOLD HERMANN CO GMBH ; KUCKERTZ WILHELM ; MULLER RUDOLF H ; RAPPOLD

Inventor(s):(std)**:** KUCKERTZ W ; KUCKERTZ WILHELM ; MUELLER RUDOLF H ; MULLER R ; UERLICHS J ; UERLICHS JOHANNES

Inventor(s): UERLICHS J DT ; MULLER R DT ; KUCKERTZ W DT ; MULLER RUDOLF H

International class (IPC 8–9)**:** C21B9/12 F16K49/00 (Advanced/Invention); C21B9/00 F16K49/00 (Core/Invention)

International class (IPC 1–7)**:** C21B11/00 C21B7/12 C21B9/00 C21B9/12 F16K49/00 F23L11/00 F23L13/06 F23L3/00 F28C F28D9/04

CPC: F28D7/04 F23M7/04 F23L13/06 C21B9/12 F16K49/007 F28D9/04 F28F3/12 Y10T137/6579

European class: C21B9/12 F16K49/00C2

US class: 137/340 165/16.8 165/168 165/170 165/86

Classification Explorer

Cited documents: US3557823 A, US3499462 A, US3269405 A, US2874941 A, US1622664 A, US1571929 A, DE212607 A,

Forward Citations: US8709162, US6895924, US6601562, US6415811, US6170460, US6073609, US5906683, US4747450, US4445569, US4300539, US4215743, US4161980, US4159740, US2007039942, US2004163709, US2004020460, GB2029549, GB2029549, EP1600720,

Abstract:
Source: US3848665A A slide for hot blast slide dampers having a pair of spiral volutes arranged in the shape of a flat disc having an inlet connection and an outlet connection for a coolant at the edge thereof. One of the spiral volutes leads the coolant from the inlet connection to the center of the disc and into the other spiral volute whereby the coolant is lead from the center of the disc to the outlet connection. The volutes are separated from each other by walls extending transverse to the major plane of the disc to form a cooling channel. The volutes are separated by a single common wall extending substantially perpendicular to the major plane of the disc and the cross section of the cooling channel may be substantially quadrangular. The volutes are made from spirally interwound open sections welded together.

0) US4863567A – FLUID DISTILLATION APPARATUS

141) Family number: 3157173 (US4863567A) © PatBase

Title: FLUID DISTILLATION APPARATUS

Priority: US19880198469 19880525

Family:

Publication number	Publication date	Application number	Application date
US4863567 A	19890905	US19880198469	19880525

Probable Assignee: RALEY JAY F

Assignee(s):(std)**:** RALEY JAY F

Inventor(s):(std)**:** RALEY JAY F

International class (IPC 8–9)**:** B01D1/00 B01D1/28 B01D3/08 B01D5/00 (Advanced/Invention); B01D1/00 B01D3/00 B01D5/00 (Core/Invention)

International class (IPC 1–7)**:** B01D3/08

CPC: Y10S203/01 B01D1/2887 B01D1/0017 B01D3/08 B01D5/0006

European class: B01D1/00B2 B01D1/28J B01D3/08 B01D5/00B10

US class: 165/88 202/182 202/187 202/197 202/202 202/205 202/234 202/235 202/267.1 202/276.1 203/11 203/26 203/DIG.1

Classification Explorer

Cited documents: US4710272 A, US4671856 A, US4198361 A, US3803001 A, US3505173 A, US3096255 A, US3091577 A, US2636129 A, US2589406 A, US1966938 A, US1936524 A,

Forward Citations: WO15049512, WO12177157, WO10086375, WO05068065, US9513030, US8444830, US8172988, US7540944, US7381310, US7226063, US6695951, US6402897, US6197152, US5810976, US5744008, US5534118, US5445216, US2015176861, US2013118714, US2013001060, US2012175241, US2010181185, US2009145860, US2009116980, US2005045466, US2005011743, US2004155421, EP1703970, EP1341591, DE102010001328, DE102009006668, CN105765177,

Abstract:
Source: US4863567A The invention is a fluid distillation apparatus (10) which, in its preferred embodiment, includes a cylindrical portion (12) which mates with an end wall (14) and a bell portion (16) to form an enclosed volume (18) within which evaporization and condensation of a selected fluid may take place. A heat exchange rotor assembly (20) is formed of head conductive material and includes intertwined evaporization and condensation channels (52, 54) in spiral array. A central tunnel (58) provides access for vapor from an evaporization volume (24) to a condensation volume (26) with a pressure gradient provided by an impeller (100) urging such passage. A drum motor (68) rotates the drum (40) to facilitate liquid flow in the heat exchange rotor (20). An impure fluid input port (32) and output ports are provided for purified fluid (34), concentrated brine (36) and degassing purposes (38). The apparatus is a flow process device and is especially adapted for continuous purification, such as water distillation or desalinization.

0) US2012140967A – HEARING DEVICE WITH A VENT EXTENSION AND METHOD...

142) Family number: 43764146 (US2012140967A) © PatBase

Title: HEARING DEVICE WITH A VENT EXTENSION AND METHOD FOR MANUFACTURING SUCH A HEARING DEVICE

Priority: WO2009EP58212 20090630

Family:

Publication number	Publication date	Application number	Application date
EP2449797 A2	20120509	EP20090723338	20090630
US2012140967 AA	20120607	US20090380210	20090630
US8855347 BB	20141007	US20090380210	20090630
WO09115618 A2	20090924	WO2009EP58212	20090630
WO09115618 A3	20100225	WO2009EP58212	20090630

Probable Assignee: SONOVA AG

Assignee(s):(std)**:** AUBERT SEBASTIEN ; PHONAK AG

Assignee(s): SONOVA AG

Inventor(s):(std)**:** AUBERT SEBASTIEN

Agent(s): TROESCH SCHEIDEGGER WERNER AG; PEARNE AND GORDON LLP; RIGLING PETER D

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

International class (IPC 8–9): H04R25/00 H04R31/00 (Advanced/Invention); H04R25/00 (Core/Invention)

CPC: H04R25/658 H04R25/456 H04R25/48 H04R25/556 H04R25/608 H04R25/65 H04R25/652 H04R25/656 H04R2225/021 H04R2225/025 H04R2225/63 H04R2460/11 H04R2460/17 Y10T29/49572

European class: H04R25/45D H04R25/48 H04R25/60 H04R25/60M H04R25/65B H04R25/65B3 H04R25/65M T04R225/021 T04R225/025 T04R225/63 T04R225/65 T04R225/69 T04R225/75 T04R25/55F T04R25/65 T04R460/11 T04R460/17

US class: 29/896.21 29/896.210S 381/325 381/325P 381/328 381/328S 381/330

Classification Explorer

Cited documents: WO07014950 A2, WO0143499 A1, WO0042817 A1, US7715581 BB, US7079662 BB, US7068803 BB, US6275596 BA, US5357576 A, US5201007 A, US5048090 A, US5031219 A, US4852683 A, US4852177 A, US4724922 A, US4375016 A, US4291203 A, US4006796 A, US2008301944 AA, EP0517322 A2,

DE102006050502 A1

Forward Citations: USD719549, USD719139, US9591409, US9479859, US9398364, US9392377, US9380370, US9361906, US9288592, US8989426, US8929582, US2016127817, US2015156579, US2014241563, EP2819428, EP2624592,

Abstract:
Source: US2012140967A The hearing device comprises an ear–piece (1) which is designed to be worn at least partially in an ear canal of a user of the hearing device. The ear–piece (1) comprises a vent passage (3) connecting the ear canal with the atmosphere. The vent passage (3) has an inner opening (8) towards the ear–canal and an outer opening (9) towards the atmosphere. The ear–piece (1) further comprises a vent extension (4). The vent extension (4) is a protrusion extending the vent passage (3) beyond the body (2) of the ear–piece (1). The vent extension (4) is adapted for abutting on a surface of the body of the user and is thereby inconspicuous and/or contributes thereby to retention. A method for manufacturing such a hearing device is also disclosed.

0) US2002062148A – KINETIC STENT

143) Family number: 28193798 (US2002062148A) © PatBase

Title: KINETIC STENT

Priority: US19970806337 19970226 US19980109355 19980702 US19990303113 19990430 WO1998US00313 19980109 WO2000US11380 20000428

Family:

Publication number	Publication date	Application number	Application date
CA2282511 AA	19990825	CA19982282511	19980109
CA2365892 AA	20010918	CA20002365892	20000428
EP0967937 A1	20000105	EP19980902429	19980109
EP0967937 A4	20030416	EP19980902429	19980109
EP1175186 A1	20020130	EP20000930187	20000428
EP1175186 A4	20060322	EP20000930187	20000428
JP2001513008 T2	20010828	JP19980537633T	19980109
JP2002542880 T2	20021217	JP20000614919T	20000428
US2002062148 AA	20020523	US19970806337	19970226
US6395021 BA	20020528	US19990303113	19990430
US6582472 BB	20030624	US19970806337	19970226
WO0066032 A1	20001109	WO2000US11380	20000428
WO9837834 A1	19980903	WO1998US00313	19980109

Probable Assignee: APPLIED MEDICAL RESOURCES CORP

Assignee(s):(std)**:** APPLIED MED RESOURCES

Assignee(s): APPLIED MEDICAL RESOURCES CORP ; BRUSTAD JOHN R ; CITIBANK NA ; CLAYMAN RALPH V ; EWERS RICHARD C ; HART CHARLES C ; VANDENBROEK FRANS

Inventor(s):(std)**:** BRUSTAD JOHN R ; CLAYMAN RALPH V ; EWERS RICHARD C ; HART CHARLES C ; VANDENBROEK FRANS

Agent(s): BORDEN LADNER GERVAIS LLP

Designated states: AT BE CA CH CY DE DK ES FI FR GB GR IE IT JP LU MC NL PT SE

International class (IPC 8–9)**:** A61F2/04 A61F2/06 A61F2/82 A61F2/84 A61F2/88 A61F2/90 A61F2/95 (Advanced/Invention); A61F2/00 (Advanced/Non–invention)

International class (IPC 1–7)**:** A61F2/04 A61F2/06 A61M29/02

CPC: A61F2002/048 A61F2/042 A61F2250/0067 A61F2230/0067 A61F2/82 A61F2/04 A61F2/848 A61F2/90 A61F2/95 A61M27/008

European class: A61F2/04 A61F2/04B A61F2/06S A61F2/06S2 A61F2/06S6N A61F2/82 A61F2/90 A61F2/95 A61M27/00C3 K61F2/848 K61F250/00W5

US class: 604/8 623/1.15 623/1.150P 623/1.2 623/12 623/23.7

Classification Explorer

Cited documents: WO9837834 A1, US6090099 A, US6017335 A, US5667486 A, US5645559 A, US5618301 A, US5575818 A, US5540701 A, US5514176 A, US5507767 A, US5476505 A, US5466242 A, US5421832 A, US5409019 A, US5401257 A, US5364340 A, US5354310 A, US5354263 A, US5342348 A, US5306294 A, US5282784 A, US5246445 A, US5234425 A, US5222971 A, US5116309 A, US5078720 A, US5059139 A, US5041093 A, US5041092 A, US5026377 A, US4957479 A, US4931037 A, US4913683 A, US4886062 A, US4787884 A, US4655771 A, US4643716 A, US4580568 A, US4334327 A, US3996938 A, US3938529 A, US2285980 A,

Forward Citations: WO10075214, WO10065187, WO10065187, WO10033592, WO08115271, WO07048437, WO07001992, WO07001992, WO05102217, WO05096991, WO03089038, WO03079930, WO03049796, WO03039406, WO02098500, USRE46306, US9610382, US9610181, US9579225, US9561309, US9561122, US9532888, US9504553, US9498356,

US9452070, US9452068, US9427342, US9408732, US9393021, US9381102, US9358325, US9320590, US9314354, US9308359, US9301831, US9295811, US9295570, US9295568, US9283099, US9277921, US9271823, US9259341, US9248034, US9198785, US9192460, US9173751, US9173735, US9173733, US9157174, US9149378, US9125659, US9114001, US9108017, US9072820, US9066827, US9066823, US9060888, US9050205, US9038260, US9033956, US8940041, US8925177, US8911415, US8881365, US8845752, US8834558, US8834552, US8808342, US8778256, US8764847, US8752268, US8752267, US8747879, US8747878, US8741379, US8740989, US8715338, US8637110, US8628564, US8623067, US8617235, US8617234, US8603530, US8597261, US8596215, US8592036, US8568643, US8568469, US8545547, US8540762, US8535372, US8523936, US8512394, US8512272, US8491649, US8486135, US8470014, US8465789, US8460363, US8425591, US8414656, US8376981, US8372131, US8343530, US8333000, US8328877, US8293367, US8293260, US8292944, US8287602, US8277500, US8263170, US8262723, US8252065, US8241554, US8241548, US8239008, US8239007, US8202528, US8197879, US8192500, US8187316, US8182522, US8177834, US8173062, US8172897, US8172894, US8128688, US8118767, US8099849, US8095873, US8088170, US8062215, US8048448, US8048441, US8043553, US8034287, US8021434, US8020275, US8017237, US8016879, US8016742, US8007702, US8007540, US8007529, US8003156, US7998404, US7989018, US7988721, US7985415, US7971333, US7967998, US7964210, US7959940, US7959857, US7955381, US7955313, US7951194, US7951185, US7951064, US7947071, US7923022, US7914574, US7914516, US7901452, US7886419, US7875233, US7867547, US7842737, US7829008, US7823263, US7794776, US7794495, US7789915, US7763065, US7761968, US7758542, US7757543, US7740791, US7731890, US7722677, US7722662, US7708548, US7704275, US7699890, US7678154, US7674283, US7662326, US7658880, US7654989, US7632307, US7622070, US7604700, US7563324, US7553377, US7507218, US7476245, US7470247, US7396366, US7381048, US7329366, US7316663, US7297758, US7297159, US7291166, US7285304, US7258891, US7229471, US7214229, US7198675, US7169139, US7077860, US7041139, US7037329, US6991614, US6949125, US6913625, US6893413, US6887215, US6764519, US6709465, US6685744, US6676623, US6562066, US2016015509, US2014066694, US2012303134, US2011230950, US2011196507, US2011046719, US2010228267, US2010191167, US2010173065, US2010160848, US2010152861, US2010145467, US2010076574, US2010072659, US2010069819, US2010049003, US2010030321, US2009319024, US2009217932, US2009171451, US2009171443, US2009171435, US2009156977, US2009105719, US2009062717, US2009030363, US2008255460, US2008255459, US2008255425, US2008255414, US2008255403, US2008243877, US2008228028, US2007276466, US2007265694, US2007199360, US2007123969, US2007078446, US2007050006, US2006271202, US2006259113, US2006188546, US2006178104, US2006111649, US2006052757, US2006030826, US2006025726, US2005240280, US2005240278, US2005240277, US2005240141, US2005228473, US2005187510, US2005137519, US2004267213, US2004204629, US2003191450, US2003130719, US2003125798, US2003040754, JP2009513200, ES2472122, EP2926767, EP2818141, EP2243507, EP2005919, EP1572154, EP1392388, EP1392386, EP1175186, DE102008057177, CN102743244, AU2006284819, AU2003213774, AU2003213774, AU2003213774,

Abstract:
Source: US2002062148A The disclosed stent is formed of an elongate, flexible duct having a very thin wall and a preformed diameter, length, and shape. The stent is constructed of a woven tubular structure of multiple strands or elements. The woven tubular structure is thermally set to a predetermined diameter and length, so that the "at rest" or natural condition of the tubular structure is predictable. A retention or holding member can be formed at one or both of the ends of the stent. This retention member can be reduced in diameter for insertion into the body passage. The woven tubular structure provides a path for fluids to flow in and around the stent, while a patent lumen is being developed. The woven tubular structure allows the stent to be extended or stretched over a guidewire or other noncompressive member, to thereby reduce the diameter of the stent for insertion of the stent into a body passage.

144) Family number: 30117238 (US2002125325A) © PatBase

Title: Light beam scanning pen, scan module for the device and method of utilization

Priority:

EP19920922742	19921014	EP19970927633	19970513	EP19970927633	19970513
US19910776635	19911015	US19930114646	19931028	US19930006754	19930121
US19900612983	19901115	US19910776663	19911015	US19910745905	19910816
US19960620973	19960325	US19960649868	19960513	US19950483299	19950607
US19970783462	19970116	US19940273101	19940708	US19940229728	19940419
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Probable Assignee: GEO ACQUISITION CORP

Assignee(s):(std)**:** GEO ACQUISITION CORP ; PLESKO GEORGE A ; GEO LABS INC ; SYMBOL TECHNOLOGIES INC ; GAP TECHNOLOGIES INC ; GEO ACQUISITION CORP C

OPSC IN

Assignee(s): GEO ACQUISITION CORP WEBSTER ; GAP TECHNOLOGIES INC 380 STEEPLECHASE DRIVE MEDIA ; GAP TECHNOLOGIES INC 380 STEEPLECHASE DRIVE MEDIA PA 19063 A CORP OF DE ; GAP TECHNOLOGIES INC A DE CORP ; GAP TECHNOLOGIES INC MEDIA PA US ; PSC INC ; SYMLBOL TECHNOLOGIES INC ; GEO ACQUISITION CORP 675 BASKET ROAD C O PSC INC ; GEO ACQUISITION CORP C O PSC INC ; JPMORGAN CHASE BANK NA ; GEO ACQUISITION CORP C OPSC INC

Inventor(s):(std)**:** PLESKO A ; PLESKO GEORGE ; PLESKO GEORGE A

Inventor(s): GAP TECHNOLOGIES INC ; GEORGE A PLESKO

Agent(s): BORDEN LADNER GERVAIS LLP; WAGNER KARL H

Designated states: AT AU BE CA CH DE DK ES FI FR GB GR IE IT JP LI LU MC NL PT SE

International class (IPC 8–9): F03G1/10 G01J3/00 G02B26/08 G02B26/10 G02B26/12 G02B27/40 G02B3/14 G02B5/12 G06K7/10 G06K9/18 H02K21/14 H02K26/00 H02K33/06 H02K33/16 H02K7/06 H02K7/065 H02K7/14 H03K17/94 H03K17/955 H03K17/96 H04N1/113 (Advanced/Invention); H02K7/14 H04N1/113 (Advanced/Non–invention); G02B26/08 G02B26/10 G06K7/10 H02K21/14 H02K26/00 H02K33/00 H03K17/94 (Core/Invention)

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Abstract:
Source: US2002125325A A high speed non−contact beam scanning device sized and shaped to provide the ergonomic benefits of a pen or wand, yet can scan a wide angle moving beam across an information−bearing target in one or two dimensional scan patterns such as lines, rasters or other patterns in order to read information therefrom. The device is well suited for reading one or two dimensional bar−code or other printed matter. In order to achieve the high density optical packaging necessary for its high performance to size benefits the device employs a novel in−line or "axial" gyrating, or "axial" scan element. The axial scan element can accept an input light beam at one end and cause it to emerge from its opposite end as a scanned beam, propagating in the same general forward direction it had upon entering the element. Reflected light, which carries information contained on the target, is collected by an internal non−imaging light collector and is processed by signal processing electronics. All components are integrated into a thin low mass module small enough to fit in a pen. Communication from the device is achievable by a cable or by wireless means.

0) US6258115B – BIFURCATED STENT AND DISTAL PROTECTION SYSTEM

145) Family number: 29458900 (US6258115B) © PatBase

Title: BIFURCATED STENT AND DISTAL PROTECTION SYSTEM

Priority: US19970044163P 19970423 US19980063735 19980421 WO1998US08194 19980421

Family:

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EP1011532 A1	20000628	EP19980918631	19980421
EP1011532 A4	20080625	EP19980918631	19980421
EP1011532 B1	20140507	EP19980918631	19980421
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US6258115 BA	20010710	US19980063735	19980421
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Probable Assignee: ETHICON ENDO SURGERY INC

Assignee(s):(std)**:** ARTEMIS MEDICAL INC ; DUBRUL WILLIAM R ; ETHICON ENDO SURGERY INC

Assignee(s): GENESIS MEDICAL TECHNOLOGIES INC ; DIAMOND COATING TRCHNOLOGIES LLC

Inventor(s):(std)**:** DEBRUL WILLIAM R ; DUBRUL WILLIAM R ; DUBRUL WILLIAM RICHARD

Agent(s): CLARK JANE ANNE

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT JP LU MC NL PT SE

International class (IPC 8–9): A61F2/01 A61F2/06 A61F2/84 A61F2/856 A61F2/88 A61F2/90 (Advanced/Invention); A61B17/12 A61F2/00 A61F2/958 (Advanced/Non–invention)

International class (IPC 1–7): A61F2/04 A61F2/06 A61M29/00

CPC: A61F2002/018 A61F2230/0006 A61F2230/0069 A61F2230/0076 A61F2/88 A61B17/12109 A61B17/12172 A61F2/01 A61F2/013 A61F2/856 A61F2/90 A61F2/958 A61F2210/0019 A61F2210/0023 A61F2250/0015 A61F2250/0023 A61F2250/006 A61F2250/0067 A61F2220/005 A61F2220/0058

European class: A61B17/12P5B A61B17/12P7W1 A61F2/01 A61F2/01D A61F2/06S6C A61F2/06S6N A61F2/856 A61F2/88 A61F2/90 K61B17/12P2 K61F2/06S2B K61F2/856 K61F2/958 K61F210/00D2 K61F210/00D4 K61F250/00N1 K61F250/00N8 K61F250/00W2 K61F250/00W5

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Forward Citations: WO9965417, WO14123659, WO05065579, WO05009214, WO04050137, WO04050137, WO03094790, WO03043540, WO0249548, WO0205729, WO0135864, WO0053119, WO0053118, WO0049973, USRE43902, USRE43882, USD732666, US9669191, US9662129, US9662118, US9655755, US9649495, US9642728, US9642705, US9642704, US9642691, US9629718, US9610181, US9597101, US9592120, US9592068, US9585754, US9585750, US9585749, US9585647, US9585646, US9579194, US9579119, US9579091, US9561122, US9561103, US9561094, US9555219, US9554899, US9554786, US9539088, US9533128, US9532873, US9532872, US9532792, US9526642, US9526609, US9526504, US9517146, US9510945, US9504568, US9504564, US9498604, US9498329, US9498196, US9492297, US9492273, US9486313, US9486229, US9486191, US9463035, US9456834, US9452070, US9445895, US9439757, US9427340, US9421070, US9415225, US9414824, US9414820, US9402708, US9402625, US9398946,

US9398914, US9393136, US9393115, US9393113, US9393112, US9393094, US9393021, US9387076, US9387071, US9370421, US9364209, US9358140, US9358110, US9358106, US9345532, US9339382, US9333100, US9332976, US9331328, US9320627, US9320599, US9320590, US9320522, US9314324, US9314230, US9308085, US9308007, US9301834, US9301831, US9301829, US9295568, US9295550, US9295469, US9289289, US9283066, US9282965, US9277993, US9277991, US9271707, US9259305, US9259215, US9248017, US9241696, US9237886, US9226826, US9220522, US9211396, US9204887, US9199085, US9186487, US9179995, US9179931, US9173644, US9168043, US9161836, US9157174, US9149609, US9149358, US9149357, US9149276, US9138527, US9138314, US9138312, US9138307, US9131926, US9125659, US9119706, US9114001, US9101410, US9089674, US9089422, US9089311, US9078781, US9066799, US9060857, US9060856, US9060851, US9060769, US9050205, US9050182, US9050087, US9050068, US9039727, US9034007, US9023077, US9023076, US9017294, US9011521, US9011364, US9005273, US9005270, US8998981, US8998979, US8998976, US8992608, US8986361, US8986329, US8968390, US8961593, US8956402, US8956388, US8951299, US8951280, US8951243, US8945169, US8940014, US8932340, US8932321, US8932320, US8932316, US8926656, US8926633, US8920492, US8920488, US8911490, US8910555, US8905937, US8904914, US8900207, US8895891, US8894703, US8893947, US8876896, US8876895, US8876894, US8872068, US8870948, US8870910, US8870901, US8870805, US8869670, US8866049, US8863631, US8859934, US8858620, US8858619, US8858594, US8858490, US8852227, US8852226, US8845678, US8845677, US8845583, US8845552, US8840663, US8840662, US8840661, US8834564, US8834563, US8834519, US8828078, US8821534, US8821478, US8820602, US8816247, US8814926, US8814892, US8808369, US8808310, US8803030, US8801779, US8801750, US8795330, US8795322, US8795315, US8790641, US8790388, US8784478, US8784447, US8784400, US8784355, US8777980, US8771346, US8771345, US8771302, US8758400, US8758399, US8758398, US8758396, US8747460, US8747459, US8747458, US8747456, US8740834, US8728155, US8728119, US8721714, US8721708, US8709034, US8696743, US8690910, US8685084, US8685077, US8679148, US8673000, US8672953, US8668733, US8663313, US8663273, US8657852, US8657849, US8652204, US8647376, US8647359, US8632579, US8632562, US8628570, US8628566, US8628564, US8623078, US8623077, US8623076, US8623067, US8617236, US8617234, US8617201, US8613765, US8608724, US8603160, US8603159, US8603136, US8603131, US8603116, US8597325, US8591570, US8591540, US8590760, US8585836, US8579966, US8579962, US8579957, US8579932, US8562672, US8556955, US8556930, US8545432, US8540768, US8539662, US8535373, US8535344, US8535343, US8529587, US8523897, US8518057, US8512397, US8512395, US8511244, US8506620, US8506619, US8500772, US8486108, US8486104, US8486092, US8480728, US8480629, US8469995, US8468678, US8460336, US8454650, US8444669, US8444665, US8439968, US8435284, US8430927, US8430901, US8425590, US8419787, US8419748, US8414643, US8414543, US8414516, US8409167, US8403912, US8398676, US8398656, US8388644, US8377092, US8348996, US8348995, US8343213, US8343211, US8343208, US8343089, US8337544, US8337519, US8328868, US8328842, US8323312, US8323309, US8317855, US8313525, US8313497, US8312825, US8308753, US8303645, US8303618, US8303617, US8303609, US8298280, US8298278, US8292914, US8292829, US8287584, US8287564, US8287563, US8277501, US8267956, US8262691, US8262690, US8262689, US8257425, US8257423, US8252052, US8252018, US8252017, US8246678, US8246674, US8241349, US8241348, US8241319, US8241315, US8241274, US8236048, US8236026, US8236024, US8231670, US8226710, US8226678, US8221448, US8221446, US8221434, US8216270, US8216269, US8216267, US8216209, US8211170, US8206429, US8187321, US8187298, US8182528, US8182527, US8182508, US8177791, US8157853, US8157852, US8157760, US8152831, US8142442, US8137398, US8137377, US8136659, US8133271, US8128679, US8123779, US8123777, US8123776, US8118861, US8114115, US8109996, US8109962, US8092487, US8092483, US8088157, US8080032, US8075615, US8075614, US8070801, US8070769, US8070694, US8062357, US8062356, US8057504, US8052750, US8052749, US8052736, US8052735, US8052734, US8052716, US8048153, US8048142, US8043366, US8043329, US8038706, US8038696, US8029530, US8016878, US8016877, US8016874, US8016854, US8007528, US8007510, US8002826, US8002790, US8002728, US7998163, US7998104, US7996993, US7993389, US7993329, US7988724, US7988705, US7987994, US7981134, US7976560, US7976516, US7972378, US7972359, US7972356, US7972352, US7959672, US7959669, US7959668, US7959666, US7959647, US7959646, US7959584, US7951557, US7951192, US7951191, US7942925, US7931666, US7931664, US7927365, US7927364, US7927349, US7922758, US7918820, US7914569, US7901427, US7901426, US7896912, US7896861, US7892281, US7892279, US7892251, US7887578, US7887577, US7879067,

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Abstract:
Source: US6258115B A stent comprising varying porosity's for use in vessels with bifurcations or side branches. The stent allows for scaffolding of the stenotic area but still allows for flow into the side branches. A distal protection system is also described.

0) US2014153768A – UNIVERSAL EARPIECE

146) Family number: 52122727 (US2014153768A) © PatBase

Title: UNIVERSAL EARPIECE

Priority: US20110516565P 20110405 US20120110064 20120404 US20120616940P 20120328 WO2012US32211 20120404 US20160179097 20160610 US20140110064 20140217

Family:

Publication number	Publication date	Application number	Application date
CN204468122 U	20150715	CN201290000576U	20120404
JP3192221 U	20140807	JP20140600004U	20120404
US2014153768 AA	20140605	US20120110064	20120404
US2017127198 AA	20170504	US20160179097	20160610
US9398362 BB	20160719	US20120110064	20120404
WO12138788 A2	20121011	WO2012US32211	20120404
WO12138788 A3	20140424	WO2012US32211	20120404

Probable Assignee: BLUE GEAR LLC

Assignee(s):(std)**:** BLUE GEAR CO LTD ; BLUE GEAR INC ; BLUE GEAR LLC ; ROBERTS RANDALL WAYNE ; HAGEN LAWRENCE T ; NILSON MARGARET V ; CARLSON JOHAN D

Assignee(s): BLUE GEAR CO

Inventor(s):(std)**:** CARLSON JOHAN D ; HAGEN LAWRENCE T ; NILSON MARGARET V ; ROBERTS RANDALL WAYNE

Agent(s): DICKE BILLIG AND CZAJA PLLC; FORREST PETER

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 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 QA RO RS RU RW 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

International class (IPC 8–9): A61B7/02 H04R1/10 H04R25/00 (Advanced/Invention)

CPC: H04R1/1016 H04R25/60 H04R25/65 H04R25/652 H04R25/654 H04R1/1008 H04R25/604 H04R25/602 H04R25/554 H04R25/40 H04R2225/025 H04R25/656 H04R1/105

US class: 1/1 381/380

Classification Explorer

Cited documents: US8374367 BB, US7708110 BB, US7394910 BB, US6434248 BA, US6389142 BA, US6359992 BA, US6319020 BA, US6205227 BA, US6097825 A, US5712453 A, US5002151 A, US4878560 A, US2011316727 AA, US2011299709 AA, US2011166680 AA, US2010226517 AA, US2010103170 AA, US2009316940 AA, US2009262964 AA, US2009116731 AA, US2008095392 AA, US2007183613 AA,

Forward Citations: US9621228, US9621227, US9560505, US9497554, US9491534, US9455771, US2017063434, US2016165020, US2015350762, US2015326981,

Abstract:
Source: US2014153768A An earpiece designed to fit a substantial majority (over 90 percent) of people without customization to the outer ears, i.e., without the need to make customized measurements or a mold of the actual ear of an individual. The device is generally C–shaped and contacts the outer ear in four locations.

147) Family number: 59227861 (WO16142690A1) © PatBase

Title: INLET INSTRUMENTATION FOR ION ANALYSER COUPLED TO RAPID EVAPORATIVE IONISATION MASS SPECTROMETRY ("REIMS") DEVICE

Priority: GB20150003863 20150306 GB20150003864 20150306 GB20150003876 20150306 GB20150003877 20150306 GB20150003867 20150306 GB20150003878 20150306 GB20150016003 20150909 GB20150018369 20151016 GB20150003879 20150306

Family:

Publication number	Publication date	Application number	Application date
GB201503876 A0	20150422	GB20150003876	20150306
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WO16142674 A1	20160915	WO2016GB50603	20160307
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WO16142683 A1	20160915	WO2016GB50612	20160307
WO16142685 A1	20160915	WO2016GB50614	20160307
WO16142686 A1	20160915	WO2016GB50615	20160307
WO16142689 A1	20160915	WO2016GB50619	20160307
WO16142690 A1	20160915	WO2016GB50620	20160307

Probable Assignee: MICROMASS LTD

Assignee(s):(std)**:** MICROMASS LTD

Assignee(s): MICROMASS UK LTD

Inventor(s):(std)**:** BALOG JULIA ; BOLT FRANCES ; CHUA ALVIN ; GOEDOERHAZY LAJOS ; HENDERSON MATT ; HESS ANTHONY ; JONES EMRYS ; KARANCSI TAMAS ; LANGRIDGE JAMES IAN ; MORRIS MICHAEL RAYMOND ; O BRIEN STEPHEN ; PRINGLE STEVEN DEREK ; RICHARDSON KEITH ; SIMON DANIEL ; SZALAY DANIEL ; TAKATS ZOLTAN ; TRIVETT IAN

Agent(s): JEFFREY PHILIP MICHAEL; CHIVA ANDREW PETER

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 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

International class (IPC 8–9): A61B10/02 A61B17/00 A61B18/00 A61B18/14 G01N27/62 G01N3/00 G01N33/02 G01N33/48 G01N33/68 G01N33/92 G01N9/00 H01J49/00 H01J49/04 H01J49/06 H01J49/16 (Advanced/Invention)

CPC: G01N33/6848 A61B17/00 A61B18/00 A61B18/14 A61B2218/008 G01N3/00 G01N9/00 G01N33/92 H01J49/0036 H01J49/0404 H01J49/0459 H01J49/049 H01J49/068 H01J49/16 A61B10/0041 A61B10/0233 A61B10/0283 A61B17/320068 A61B18/20

Classification Explorer

Cited documents: WO9734534 A1, WO14142926 A1, WO14128629 A1, WO13148162 A1, WO13098645 A2, WO13098642 A2, WO12174437 A1, WO12143737 A1, WO10136887 A1, US2014353488 AA, US2012156712 AA, US2010101304 AA, GB2491486 A1, CA2882003 AA,

Abstract:
An apparatus is disclosed comprising a first device (1) for generating aerosol, smoke or vapour (5) from one or more regions of a target, an inlet conduit to an ion analyser or mass spectrometer,the inlet conduit having an inlet through which the aerosol, smoke or vapour (5) passes, and a Venturi pump arrangement arranged and adapted to direct the aerosol, smoke or vapour5towards the inlet.

0) US2008086854A – ARTICULATED ELEMENTS AND METHODS FOR USE

148) Family number: 30664667 (US2008086854A) © PatBase

Title: ARTICULATED ELEMENTS AND METHODS FOR USE

Priority: US20020432558P 20021210 US20020432563P 20021210 US20020432563P 20021210 US20030538459 20031210 WO2003US39511 20031210 WO2003US39511 20031210

Family:

Publication number	Publication date	Application number	Application date
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AU2003297908 AH	20040630	AU20030297908	20031210
US2008086854 AA	20080417	US20030538459	20031210
US8133241 BB	20120313	US20030538459	20031210
WO04052594 A2	20040624	WO2003US39511	20031210
WO04052594 A3	20041007	WO2003US39511	20031210

Probable Assignee: BATTELLE MEMORIAL INST

Assignee(s):(std)**:** BARTILSON B MATT ; BATTELLE MEMORIAL INST ; BATTELLE MEMORIAL INSTITUTE ; BOYD ROBERT R ; FAULKNER LYNN ; HANNA WILLIAM T ; HAUBERT THOMAS A ; GEGENHEIMER C MICHAEL ; SCHELHORN JEAN E ; KELLEY BRIAN C ; HAUBERT THOMAS D ; GLEESON JAMES B ; POLL WAYNE L ; ROSENBERG DOV S ; SMITH ROGER W ; HOFFMAN PANCAKE MARY ; STEIN HOLLY A ; TAYLOR KEVIN M

Assignee(s): BARTILSON B ; GEGENHEIMER C

Inventor(s):(std)**:** FAULKNER LYNN ; GEGENHEIMER C MICHAEL ; HANNA WILLIAM T ; HAUBERT THOMAS A ; BARTILSON B MATT ; BOYD ROBERT R ; SCHELHORN JEAN E ; STEIN HOLLY A ; TAYLOR KEVIN M ; SMITH ROGER W ; ROSENBERG DOV S ; POLL WAYNE L ; KELLEY BRIAN C ; HOFFMAN PANCAKE MARY ; HAUBERT THOMAS D ; GLEESON JAMES B

Inventor(s): GEGENHEIMER C ; BARTILSON B ; GEGENHEIMER CMICHAEL ; BARTILSON BMATT ; B ; B MATT BARTILSON ; THOMAS A HAUBERT ; WILLIAM T HANNA ; C ; C MICHAEL GEGENHEIMER ; HOLLY A STEIN ; JEAN E SCHELHORN ; LYNN FAULKNER ; ROBERT R BOYD

Agent(s): BATTELLE MEMORIAL INSTITUTE; BATTELLE MEMORIAL INST; FAY SHARPE LLP; RICHARD M

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 LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ 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

International class (IPC 8–9): A61B17/064 A61B17/08 A61B17/22 A61B17/34 F16G11/02 (Advanced/Invention); A61B17/00 A61B17/11 A61B17/12 A61B17/122 A61B17/28 A61F2/00 (Advanced/Non–invention); A61B17/064 A61B17/22 A61B17/34 F16G11/00 (Core/Invention); A61B17/00 A61B17/03 A61B17/12 A61B17/28 A61F2/00 (Core/Non–invention)

International class (IPC 1–7): A44B21/00 A61B17/12 A61M37/00 B25B F16G11/00

CPC: Y10T24/3787 Y10T24/44231 Y10T428/1334 A61B17/3478 A61B17/064 A61B17/0644 A61B17/11 A61B17/12022 A61B17/12109 A61B17/12172 A61B17/122 A61B17/221 A61B2017/00004 A61B2017/003 A61B2017/00867 A61B2017/22034 A61B2017/2927 A61F2/2481

European class: A61B17/064 A61B17/12P5B A61B17/12P7W1 A61B17/221 A61B17/34Q K61B17/00A K61B17/00E3G K61B17/00S12 K61B17/064D K61B17/11 K61B17/122 K61B17/12P K61B17/22E6 K61B17/29J2 K61F2/24W2

US class: 24/482 24/482S 24/715.3 24/715.300P 428/12 428/12S 428/35.2 428/35.200S 606/151

Classification Explorer

Cited documents: US6607541 BA, US6530934 BA, US6513210 BA, US6513210 A, US6358271 BA, US6321749 BA, US6321749 A, US6286746 BA, US6231587 BA, US6217591 BA, US6202263 BA, US6202263 A, US6190353 BA, US6174324 BA, US6174324 B1,

US6106545 A, US5964765 A, US5941901 A, US5893880 A, US5816458 A, US5807405 A, US5404057 A, US5259377 A, US4993128 A, US4860408 A, US4754531 A, US4694541 A, US4589410 A, US4577631 A, US2820269 A, US2024982 A, US2003036748 AA,

Forward Citations: WO16144317, WO15031093, WO14062784, WO07147591, US9586025, US9539120, US9510846, US9474596, US9364628, US9281669, US9250041, US9138133, US9023081, US9017379, US8932329, US8888810, US8679157, US8454653, US8348973, US8323316, US8267949, US8206291, US8152775, US7779845, US2015082507, US2014257363, US2014124239, US2014107623, US2014041665, US2012204450, US2010286759, US2010094402, US2008234545, EP2072014, EP1878391, EP1870046, EP1749480,

Abstract:
Source: US2008086854A The present invention relates to a one−step fastening device, a process for creating a fastener utilizing such a device, and the end fastener produced thereby. In this regard, the invention uses an outer, hollow fastener material that can be partially compressed under tension at designated areas (i.e., a compression member) and an inner activation or tensioning member. The compression of the outer fastener material occurs at one or more flexible areas or compression features specifically located on the longitudinal axis of the material. As a result, the outer compression member is capable of being distorted or bent under tension to produce a predetermined configuration. The device described herein has the ability to form specific and controllable fasteners of designated shapes and configurations. Methods for fastening, snaring, gripping, cutting, and manipulating material using the device in a confined space are also provided.

0) US4173445A – PLASTICS EXTRUSION APPARATUS

149) Family number: 1356078 (US4173445A) © PatBase

Title: PLASTICS EXTRUSION APPARATUS

Priority: CA19790331843 19790716 US19780925375 19780717

Family:

Publication number	Publication date	Application number	Application date
AU197948951 A1	19800124	AU19790048951	19790716
AU528936 B2	19830519	AU19790048951	19790716
CA1124026 A1	19820525	CA19790331843	19790716
DE2966509 D1	19840202	DE19792966509	19790713
EP0007752 A1	19800206	EP19790301385	19790713
EP0007752 B1	19831228	EP19790301385	19790713
JP55015895 A2	19800204	JP19790090246	19790716
JP63033920 U1	19880304	JP19870117500U	19870730
US4173445 A	19791106	US19780925375	19780717

Probable Assignee: HOOVER UNIVERSAL

Assignee(s):(std)**:** MONSANTO CO

Assignee(s): MONSANTO COMPANY ; STEINGISER SAMUEL ; HOOVER UNIVERSAL ; HOOVER UNIVERSAL INC ; MCKELVEY JAMES M ; MONSANTO

Inventor(s):(std)**:** JIEIMUZU MOOGAN MATSUKERUBII ; MCKELVEY JAMES M ; MCKELVEY JAMES MORGAN ; SAMUERU SHIYUTAINGIIZAA ; STEINGISER SAMUEL

Inventor(s): JAMES MORGAN MCKELVEY ; SAMUEL STEINGISER

Agent(s): EDWIN F WELLINGTON; MCFADDEN FINCHAM; OSLER HOSKIN AND HARCOURT LLP

Designated states: BE DE FR GB NL

International class (IPC 8–9)**:** B29B7/00 B29C47/00 B29C47/10 B29C47/38 B29C47/60 B29C47/66 B29C47/76 (Advanced/Invention); B29B7/00 B29C47/00 B29C47/10 B29C47/38 (Advanced/Non–invention); B29B7/00 B29C47/00 B29C47/10 B29C47/38 B29C47/58 B29C47/60 B29C47/76 (Core/Invention)

International class (IPC 1–7)**:** B29C47/10 B29C47/60 B29F3/01 B29F3/02 B29F3/03 B29F3/06 B30B11/24

CPC: B29C47/0009 B29C47/766 B29C47/60 B29C47/76 B29C47/6018

European class: B29C47/60 B29C47/76 B29C47/76Q2

US class: 264/211.21 264/349 366/88 366/89 425/376.0A 425/376A 425/378.1 425/380 425/382.4

Classification Explorer

Cited documents: US4107260 A, US4006209 A, US3992500 A, US3949973 A, US3866890 A, US3577494 A, US3456298 A, US3263276 A, US3170190 A, US3110060 A, US3023456 A, JP52121461 B4, JP38008582 A2, DE2311947 A1, DE1958419 A1, DE1779711 A1, DE1779231 B1,

Forward Citations: WO9956937, US9282764, US8985034, US8383730, US8202940, US7892466, US7785094, US7654813, US7654812, US7494264, US6921191, US6887062, US5599098, US5486328, US5126088, US4310484, US2010164133, US2010133714, US2007006588, US2006038315, US2005140048, US2005041522, US2005012235, US2004213077, US2004037160, EP1085969, EP0124020, EP0105233, CN103465460,

Abstract:
Source: US4173445A In plastics extrusion apparatus including a rotating screw in a cylinder forming a channel receiving solid material and eventually expressing it through a die, the channel comprising a feed zone, a melting and compression zone and a melt pumping zone, the improvement wherein a solids decompression zone is between the feed and the melting and compression zones which has increased unit volume relative to that of the feed zone, with the channel of the melting and compression zone communicating with the feed inlet through the

decompression and feed zones such that solids are initially metered producing a starved condition so as to melt at substantially atmospheric pressure without filling the channel of the melting and compression zone until close to its end.

0) US2003181827A – GUIDEWIRE WITH DEFLECTABLE TIP

150) Family number: 29032614 (US2003181827A) © PatBase

Title: GUIDEWIRE WITH DEFLECTABLE TIP

Priority:

EP20040256537	20041022	EP20040256553	20041022	US20020366739	20020322
US20020224168	20020820	US20020224168	20020820	EP20080705569	20080111
US20060590537	20061031	US20030691823	20031023	US20060590625	20061031
US20060590536	20061031	US20020366739P	20020322	US20030691824	20031023
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US20070930471P	20070516	US20080008509	20080111	WO2008US00438	20080111
US20100906976	20101018				

Family:

Publication number	Publication date	Application number	Application date
AU2008205550 AA	20080724	AU20080205550	20080111
AU2008205550 BB	20121101	AU20080205550	20080111
CA2675209 AA	20090710	CA20082675209	20080111
CA2675209 C	20130108	CA20082675209	20080111
DE602004007863 D1	20070913	DE200460007863T	20041022
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US2005273021 AA	20051208	US20050168220	20050628
US2006241519 AA	20061026	US20060473764	20060623

US2007213689 AA	20070913	US20060590536	20061031	
US2007219464 AA	20070920	US20060590537	20061031	
US2007219465 AA	20070920	US20060590625	20061031	
US2008147001 AA	20080619	US20080008509	20080111	
US2011034989 AA	20110210	US20100906976	20101018	
US7128718 BB	20061031	US20020224168	20020820	
US7351214 BB	20080401	US20030691824	20031023	
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US7520863 BB	20090421	US20030691823	20031023	
US7815600 BB	20101019	US20080008509	20080111	
US8454673 BB	20130604	US20100906976	20101018	
WO08088766 A1	20080724	WO2008US00438	20080111	

Probable Assignee: CORDIS CORP

Assignee(s):(std)**:** CEDRO RUDOLPH ; CORDIS CORP ; HOJEIBANE HIKMAT ; GREWE DAVID ; GREWE DAVID D ; DAVIS STEPHEN ; LIM ELAINE ; MAJERCAK DAVID ; GRIFFIN STEPHEN ; AL MARASHI LAILA ; BURGERMEISTER ROBERT ; OMIECINSKI STEVEN ; STEVENS ROGER

Assignee(s): MAJERCAK DAVID C ; CARDINAL HEALTH SWITZERLAND 515 GMBH ; CORDIS MIAMI LAKES CORP

Inventor(s):(std)**:** AL MARASHI LAILA ; BURGERMEISTER ROBERT ; CEDRO RUDOLPH ; DAVIS STEPHEN ; GREWE DAVID ; GREWE DAVID D ; GRIFFIN STEPHEN ; HOJEIBANE HIKMAT ; LIM ELAINE ; MAJERCAK DAVID ; MAJERCAK DAVID C ; OMIECINSKI STEVEN ; STEVENS ROGER

Inventor(s): STEVENS ROGER SAN JOSE ; ROGER STEVENS ; STEPHEN GRIFFIN ; MAJERCAK DAVID STEWARTSVILLE ; LIM ELAINE FREMONT ; LAILA AL MARASHI ; GRIFFIN STEPHEN SAN JOSE ; GREWE DAVID GLEN GARDNER ; ELAINE LIM ; DAVID GREWE ; DAVID MAJERCAK

Agent(s): CALLINANS; FISHER ADAMS KELLY CALLINANS; GRIFFITH HACK; NORTON ROSE CANADA SENCRL SRL LLP; OGILVY RENAULT LLP SENCRL SRL; GOWLING WLG CANADA LLP; BOEHMERT AND BOEHMERT ANWALTSPARTNERSCHAFT MBB PATENTANWAELTE RECHTSANWAELTE; MARKS AND CLERK LUXEMBOURG LLP; TUNSTALL CHRISTOPHER STEPHEN; BROWN GEORGE LAURENCE; PROCK THOMAS; CARPINTERO MARIO; PHILIP S JOHNSON JOHNSON AND JOHNSON; HENRY W; MONTGOMERY MICHAEL W; MICHAEL W; KRISTIN L

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 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 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 ZA ZM ZW

International class (IPC 8–9): A61B18/18 A61B5/00 A61B6/00 A61B8/00 A61F2/84 A61F2/958 A61M25/00 A61M25/01 A61M25/08 A61M25/09 A61M25/10 A61M29/00 A61M31/00 A61M37/00 A61M5/00 A61M5/178 (Advanced/Invention); A61F2/82 A61M25/00 A61M25/01 A61M25/08 A61M25/09 A61M25/10 A61M29/00 A61M31/00 A61M37/00 (Core/Invention)

International class (IPC 1–7): A61B5/00 A61M25/00 A61M25/01 A61M25/10 A61M29/00

CPC: A61M2025/09008 A61M2025/1075 A61M2025/1093 A61B2017/22044 A61B2017/22095 A61F2230/0054 A61M25/10 A61F2/915 A61F2/958 A61F2002/91558 A61F2250/0018 A61M25/0054 A61M2025/0183 A61M25/01 A61M25/09 A61M25/0045 A61M25/0138 A61M25/0147 A61M25/0152 A61M25/09033 A61M2025/0042 A61M2025/0046 A61M2025/09066 A61M2025/09083 A61M2025/091 A61M2025/09133

European class: A61F2/915 A61F2/958 A61M25/00S3 A61M25/01B A61M25/01C10C A61M25/01C10K A61M25/01C10M A61M25/09 A61M25/09B2 A61M25/10 K61F2/915G2 K61F250/00N2 K61M25/00R3 K61M25/00S1 K61M25/00S1C K61M25/01C10C K61M25/01M K61M25/09A K61M25/09B2 K61M25/09E1 K61M25/09E3 K61M25/09F K61M25/09M K61M25/10 K61M25/10Z14 K61M25/10Z22

US class:

600/433 600/434 600/435 600/453 600/585 600/585P 604/101.02 604/103 604/103.04 604/103.040P 604/103.09 604/104 604/164.03 604/164.13 604/264 604/508 604/509 604/525 604/526 604/526P 604/528 604/530 604/95.01 604/95.03 604/96.01 604/97.01 604/98.01 604/99.01 606/192 606/192S 606/194 606/194P 606/41 623/1.11 623/1.110P 623/1.110S

Classification Explorer

Cited documents: WO08088766 A1, WO08039846 A1, WO07070235 A2, WO06107919 A1, WO05035044 A1, WO03051446 A1, WO03022162 A1, USRE36104 E, US93047107 P, US88000007 P, US7166100 BB, US6585717 BA, US6533754 BA, US6488637 BA, US6475209 BA, US6468230 BB, US6468230 BA, US6416529 BA, US6387075 BA, US6379369 BA, US6375628 BA, US6355515 BA, US6355016 BA, US6352515 BA, US6306105 BA, US6273876 BA, US6224626 BA, US6193706 BA, US6146338 A, US6146338, US6129649 A, US6126649 A, US6126649, US6059739 A, US6059739, US6048338 A, US6027863 A, US6027460 A, US5997487 A, US5944689 A, US5931830 A, US5908405 A, US5891055 A, US5882333 A, US5813997 A, US5807279 A, US5695111 A, US5682899 A, US5660660 A, US5573520 A, US5569200 A, US5531690 A, US5501694 A, US5480382 A, US5397305 A, US5380283 A, US5372587 A, US5372587, US5368049 A, US5365942 A, US5341818 A, US5336252 A, US5334147 A, US5305942 A, US5242394 A, US5203772 A, US5203772, US5190050 A, US5188621 A, US5183997 A, US5159937 A, US5143085 A, US5133364 A, US5125395 A, US5120308 A, US5116350 A, US5078722 A, US5069226 A, US5060660 A, US5037391 A, US5037391, US4998916 A, US4984581 A, US4966163 A, US4953553 A, US4940852 A, US4940062 A, US4940062, US49392 A, US4936845 A, US4935088 A, US4935068 A, US4925445 A, US4923462 A, US4921482 A, US4886067 A, US4881981 A, US4875489 A, US4854325 A, US4827941 A, US4827841 A, US4815478 A, US4815478, US4813434 A, US4813434, US4770188 A, US4763647 A, US4757827 A, US4719924 A, US4676249 A, US4665906 A, US4183434 A, US400369 A, US4003369 A, US36673902, US338 A, US22416802, US2007219612 AA, US2007219465 AA, US2007142903 AA, US2007088323 AA, US2007088257 AA, US2007073331 AA, US2006241519 AA, US2006142696 AA, US2006129175 AA, US2006030835 AA, US2005288628 AA, US2005283221 AA, US2005131445 AA, US2005090761 AA, US2005070847 AA, US2005059957 AA, US2004243143 AA, US2004133158 AA, US2004082881 AA, US2004068201 AA, US2003181827 AA, US2003105415 AA, US2002165534 AA, US2002151966 AA, US2002049392 AA, US2002038129 AA, US2002019599 AA, US19599 A, US15966 A, JPS6346172, JP9294812 A2, JP6327775 A2, JP63046172 A2, JP5507212 T2, JP2185263 A2, JP2063476 A2, EP1611914 A1, EP1518582 A1, EP1346747 B1, EP1346747 A2, EP0778038 B1, EP0778038 A2, EP0377269 B1, EP0377269 A1, EP0274412 B1, EP0274412 A2,

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US8114113, US8114062, US8109903, US8100933, US8090433, US8088101, US8080000, US8070693, US8056207, US8043314, US7989042, US7963911, US7931659, US7914517, US7871414, US7837725, US7771388, US7758592, US7720521, US7615032, US7579550, US7553305, US7520881, US7410480, US7361168, US7351214, US2015238336, US2015164666, US2014350568, US2014277211, US2014135736, US2014114288, US2014058440, US2014039545, US2013238003, US2013138039, US2013123622, US2013116651, US2013072957, US2013006149, US2012245533, US2012245488, US2012197159, US2012165606, US2012123317, US2012053569, US2011295301, US2011190864, US2011190831, US2011190732, US2011190664, US2011172700, US2011118745, US2011106120, US2011105840, US2011068807, US2011060324, US2010324539, US2010249655, US2010217185, US2010179512, US2010174233, US2010121249, US2010100104, US2010076408, US2010049136, US2010022989, US2009326368, US2009318835, US2009287058, US2009235511, US2009227835, US2009187069, US2009105816, US2009105815, US2009105814, US2009076416, US2009043299, US2009024201, US2008255446, US2008249465, US2008194994, US2008091068, US2008091063, US2008091062, US2008064930, US2008051721, US2007276181, US2007219578, US2007213689, US2007185415, US2007179472, US2007162101, US2007123804, US2007083253, US2007010762, US2007005008, US2006121218, US2006106361, US2006100545, US2006100544, US2006074474, US2006058838, US2006058837, US2006058836, US2006025705, US2006004286, US2005277988, US2005277851, US2005273020, US2004215208, RU2542088, JP6046804, JP5095404, JP2016027875, JP2016027874, JP2014162390, JP2012152478, JP2009522072, JP2009516571, JP2008511392, JP2007098141, JP2005342470, JP2005125101, JP2005125100, ITTO20130135, EP3028654, EP2916903, EP2796161, EP2783722, EP2692390, EP2687255, EP2636381, EP2417999, EP2403440, EP2391417, EP2351594, EP2351593, EP2351593, EP2099516, EP2002858, EP1894595, EP1804885, EP1772116, EP1525897, EP1525896, CN104968287, CN103402576, CH701913, AU2006316567, AU2006225256,

Abstract:
Source: US2003181827A A bi−directional steerable guidewire having a deflectable distal tip which comprises a longitudinal hypotube and a spring coil attached to the distal end of the hypotube and also includes a longitudinally movable deflection member which is attached to the distal end of the spring coil and a tip retaining member which extends from the distal end of the hypotube to the distal end of the spring coil for providing very precise deflection of the distal tip.

0) US2010044252A – DEHYDRATING AND RECLOSABLE HINGED PLUG–LID WITH...

151) Family number: 41939156 (US2010044252A) © PatBase

Title: DEHYDRATING AND RECLOSABLE HINGED PLUG–LID WITH TAMPER INDICATOR AND COMPENSATION DEVICE

Priority: EP20070871851 20071213 FR20060010861 20061213 WO2007FR02059 20071213

Family:

Publication number	Publication date	Application number	Application date
DE602007027242 D1	20130131	DE200760027242T	20071213
EP2125553 A1	20091202	EP20070871851	20071213
EP2125553 B1	20121205	EP20070871851	20071213
FR2909977 A1	20080620	FR20060010861	20061213
FR2909977 B1	20090227	FR20060010861	20061213
US2010044252 AA	20100225	US20070518922	20071213
WO08087290 A1	20080724	WO2007FR02059	20071213

Probable Assignee: AIRSEC SAS

Assignee(s):(std)**:** AIRSEC S A S ; AIRSEC SAS ; AIRSEC SOC PAR ACTIONS SIMPLIF ; GUILLON BRUNO ; PORTIER BENOIT

Assignee(s): CLARIANT PRODUCTION FRANCE SAS ; AIRSEC ; AIRSEC SOC PAR ACTIONS SIMPLIFIEE ; AIRSEC SOCIETE PAR ACTIONS SIMPLIFIEE

Inventor(s):(std)**:** GUILLON BRUNO ; PORTIER BENOIT

Inventor(s): BENOIT PORTIER ; BRUNO GUILLON

Agent(s): HOFFMANN EITLE PATENT U RECHTSANWAELTE PARTMBB; HOFFMANN EITLE; CABINET PLASSERAUD; SCOTT R COX LYNCH COX GILMAN AND MAHAN PSC

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 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 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 ZA ZM ZW

International class (IPC 8–9)**:** B65D41/48 B65D41/58 B65D43/16 B65D47/08 B65D51/26 B65D51/30 B65D81/24 B65D81/26 (Advanced/Invention); B65D41/32 B65D43/16 B65D47/08 B65D51/24 B65D81/24 B65D81/26 (Core/Invention)

CPC: B65D47/0838 B65D51/26 B65D51/30 B65D2101/0023

European class: B65D47/08B4C B65D51/26 B65D51/30 L65D101/00A3

US class: 206/204 215/227 215/235

Classification Explorer

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CH309026 A,

Forward Citations: US8875917, US2015321142, US2014311345, US2014048507, US2011062176, US2009166361, CN105752469,

Abstract:
Source: US2010044252A The invention is a dehydrating and reclosable hinged plug–lid that includes a dehydrating agent, a fixation mechanical system provided between the occlusion element and the open end of the tubular container, a tamper indicator, a compensation device for preserving the conditioned products provided inside the occlusion element and secured to said occlusion element, wherein said compensation device consists of a hollow device having an essentially conical, frusto–conical, polyhedral, frusto–polyhedral apparent shape with a large annular base and a small annular base parallel to the large base, the small base in contact with the conditioned products being coaxial and connected to the large base by at least one linking element that can be deformed under the action of a mechanical pressure and that can recover its initial shape when said pressure is

no longer applied.

152) Family number: 30064195 (US2005085915A) © PatBase

Title: CUSHION BEARING IMPLANTS FOR LOAD BEARING APPLICATIONS

Priority:

EP20020788509	20021203	US20010338349P	20011204	US20020351755P	20020124
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WO2003IL00416	20030521	WO2003IL00416	20030521	WO2003IL00063	20030124

Family:

Publication number	Publication date	Application number	Application date
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AU2002353484 AA	20030617	AU20020353484	20021203
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WO03099156 A2	20031204	WO2003IL00416	20030521
WO03099156 A3	20040325	WO2003IL00416	20030521

Probable Assignee: ACTIVE IMPLANTS CORP

Assignee(s):(std)**:** ACTIVE IMPLANTS CORP ; DISCURE LTD ; IMPLIANT LTD ; STEINBERG AMIRAM

Assignee(s): MCGUIRE JOHN

Inventor(s):(std)**:** STEINBERG AMIRAM ; AMIRAM STEINBERG ; MCGUIRE JOHN

Agent(s): LUCAS BRIAN RONALD; LUCAS BRIAN RONALD ET AL; TOWNSEND AND TOWNSEND AND CREW LLP; PILLSBURY WINTHROP SHAW PITTMAN LLP; KELLEY DRYE AND WARREN LLP; HAYNES AND BOONE LLP IP SECTION; HAYNES AND BOONE LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 NE NI NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): A61B17/16 A61C8/00 A61F2/02 A61F2/28 A61F2/30 A61F2/32 A61F2/34 A61F2/36 A61F2/38 A61F2/40 A61F2/42 A61F2/44 A61F2/46 A61L27/18 A61L27/50 (Advanced/Invention); A61F2/00 A61F2/30 A61F2/34 A61F2/36 (Advanced/Non–invention); A61B17/16 A61C8/00 A61F2/02 A61F2/28 A61F2/30 A61F2/32 A61F2/36 A61F2/38 A61F2/42 A61F2/44 A61F2/46 A61L27/00 (Core/Invention); A61F2/00 A61F2/30 (Core/Non–invention); A61F (Subclass/Invention)

International class (IPC 1–7): A61C8/00 A61F2/28 A61F2/30 A61F2/34 A61F2/36 A61F2/38 A61F2/42 A61F2/44 A61F2/46 A61L27/18

CPC: A61C8/00 A61C8/0012 A61C8/0018 A61C8/0036 A61F2/30756 A61F2/3859 A61F2/389 A61F2002/30143 A61F2002/30243 A61F2002/30289 A61F2002/30563 A61F2002/30614 A61F2002/3082 A61F2002/30827 A61F2002/30947 A61F2002/3464 A61F2230/0071 A61F2002/4627 A61B17/1684 A61F2/30724 A61F2/30767 A61F2/30771 A61F2/30907 A61F2/3094 A61F2/30965 A61F2/32 A61F2/36 A61F2/3603 A61F2/3609 A61F2/3662 A61F2/367 A61F2/38 A61F2/3804 A61F2/3872 A61F2/3877 A61F2/40 A61F2/4003 A61F2/4014 A61F2/4059 A61F2/4081 A61F2/4607 A61F2/4609 A61F2002/30069 A61F2002/3007 A61F2002/3008 A61F2002/30112 A61F2002/30144 A61F2002/30153 A61F2002/30291 A61F2002/30299 A61F2002/30322 A61F2002/30324 A61F2002/30332 A61F2002/305 A61F2002/30574 A61F2002/30652 A61F2002/30673 A61F2002/30714 A61F2002/3081 A61F2002/30813 A61F2002/30822 A61F2002/30823 A61F2002/30881 A61F2002/30883 A61F2002/30884 A61F2002/30892 A61F2002/30894 A61F2002/30906 A61F2002/30934 A61F2002/30937 A61F2002/30957 A61F2002/30971 A61F2002/30981 A61F2002/3412 A61F2002/342 A61F2002/3422 A61F2002/3427 A61F2002/3438 A61F2002/3443 A61F2002/3459 A61F2002/3605 A61F2002/3611 A61F2002/3617 A61F2002/3625 A61F2002/365 A61F2002/3668 A61F2002/3822 A61F2002/3827 A61F2002/3831 A61F2002/3895 A61F2002/4007 A61F2002/4018 A61F2002/4029 A61F2002/4037 A61F2002/4062 A61F2002/4077 A61F2220/0025 A61F2220/0033 A61F2230/0004 A61F2230/0017 A61F2230/0019 A61F2230/0091 A61F2230/0093 A61F2250/0019 A61F2250/0026 A61F2250/0036 A61F2250/0089 A61F2250/0098 A61F2310/00011 A61F2310/00179 A61F2310/00407 A61F2310/00796 A61L27/18 A61L27/50 A61F2/34 A61B17/1666 A61F2002/30016 A61L2430/24

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US class: 433/201.1 433/201.100P 623/11.11 623/11.110P 623/17.16 623/17.160P 623/18.11 623/18.110P 623/18.110S 623/20.15 623/20.150S 623/22.19 623/22.190S 623/22.21

623/22.210P 623/22.210S 623/22.23 623/22.25 623/22.250P 623/22.26 623/22.3 623/22.32 623/22.38 623/23.13 623/23.130S 623/23.43 623/23.430S 623/23.44 623/23.440S 623/23.5 623/23.500S 623/23.53 623/23.530S 623/23.72 623/23.720S 623/902 623/902S

Classification Explorer

Cited documents: WO9741809 A1, WO9710776 A2, WO9217127 A1, WO03099156 A2, US7402177 BB, US6554867 BA, US6314494 BA, US6258126 BA, US6136038 A, US6136034 A, US6099565 A, US6008431 A, US5944759 A, US5944758 A, US5944757 A, US5944756 A, US5938702 A, US5935175 A, US5935174 A, US5935173 A, US5935172 A, US5935171 A, US5931871 A, US5931870 A, US5928289 A, US5928288 A, US5928287 A, US5928286 A, US5928285 A, US5919236 A, US5916270 A, US5916269 A, US5916268 A, US5913858 A, US5911759 A, US5911758 A, US5910172 A, US5910171 A, US5906644 A, US5906643 A, US5906210 A, US5904720 A, US5904688 A, US5902340 A, US5899938 A, US5892551 A, US5888204 A, US5882206 A, US5879407 A, US5879405 A, US5879404 A, US5879402 A, US5879401 A, US5879398 A, US5879397 A, US5879396 A, US5879395 A, US5879393 A, US5879392 A, US5879390 A, US5879387 A, US5871548 A, US5871547 A, US5858345 A, US5824108 A, US5824107 A, US5824103 A, US5824102 A, US5824101 A, US5824098 A, US5824079 A, US5800560 A, US5800558 A, US5800557 A, US5800555 A, US5800554 A, US5800553 A, US5788704 A, US5782928 A, US5782925 A, US5776202 A, US5766260 A, US5766257 A, US5755811 A, US5755810 A, US5755804 A, US5755801 A, US5755799 A, US5743918 A, US5743818 A, US5660225 A, US5658345 A, US5645593 A, US5641323 A, US5549700 A, US5522904 A, US5522894 A, US5514184 A, US5514182 A, US5510418 A, US5507836 A, US5507835 A, US5507834 A, US5507833 A, US5507832 A, US5507830 A, US5507829 A, US5507823 A, US5507820 A, US5507818 A, US5507817 A, US5507815 A, US5507814 A, US5496375 A, US5491882 A, US5489311 A, US5480449 A, US5480437 A, US5458651 A, US5458643 A, US5448489 A, US5443512 A, US5443383 A, US5433750 A, US5425779 A, US5415662 A, US5413610 A, US5405411 A, US5405403 A, US5405394 A, US5397359 A, US5393739 A, US5389107 A, US5387244 A, US5376126 A, US5376125 A, US5376123 A, US5376120 A, US5376064 A, US5373621 A, US5370699 A, US5364839 A, US5358525 A, US5344459 A, US5336268 A, US5334459 A, US5330534 A, US5326376 A, US5323765 A, US5316550 A, US5314494 A, US5314493 A, US5314492 A, US5314478 A, US5290314 A, US5282985 A, US5282968 A, US5282868 A, US5281226 A, US5246461 A, US5244459 A, US5222985 A, US5217499 A, US5217498 A, US5214184 A, US5211666 A, US5201882 A, US5201881 A, US5197989 A, US5197987 A, US5181929 A, US5181925 A, US5171276 A, US5156631 A, US5151521 A, US5147408 A, US5147406 A, US5146933 A, US5133763 A, US5133762 A, US5116374 A, US5108451 A, US5108449 A, US5108446 A, US5098437 A, US5080678 A, US5080677 A, US5080675 A, US5049393 A, US5041140 A, US5032134 A, US5026280 A, US5019107 A, US5011497 A, US5002581 A, US5002579 A, US4997447 A, US4997444 A, US4963154 A, US4963153 A, US4955919 A, US4955912 A, US4950298 A, US4938773 A, US4938771 A, US4936856 A, US4919678 A, US4919674 A, US4910674 A, US4908035 A, US4904269 A, US4892551 A, US4888020 A, US4883490 A, US4874389 A, US4865603 A, US4824674 A, US4822365 A, US4813962 A, US4808186 A, US4795474 A, US4795470 A, US4735625 A, US4733654 A, US4715859 A, US4664668 A, US4662889 A, US4661112 A, US4650491 A, US4624674 A, US4570270 A, US4433440 A, US4344193 A, US4292695 A, US4279041 A, US4272855 A, US4195409 A, US4089071 A, US3938198 A, US3879767 A, US3879393 A, US3875594 A, US38348302 P, US3600718 A, US3600717 A, US3576133 A, US35175502 P, US33834901 P, US2765787 A, US2004015238 AA, US2001039455 AA, GB2246957 A1, GB2126096 A1, GB2069338 A1, FR2684544 A1, EP1208819 A1, EP0761182 A2, EP0698382 A2, EP0382395 A1, EP0308081 B1, EP0308081, EP0269256 A1, EP0253941, EP0190446 B2, EP0190446, EP0066092, EP0010527, DE923383 A, DE3215583 A1, DE2247721, DE20003360 U1, DE20003360 U, DE20003360, CH626249 B, CH626249 A3, CH626249,

Forward Citations: WO17009655, WO14094785, WO14094785, WO14052150, WO14043236, WO13025927, WO13025927, WO12108610, WO11156510, WO11156510, WO11005202, WO11005193, WO09136284, WO09000774, WO08144725, WO08037751, WO08037751, USRE43282, US9668745, US9662126, US9655730, US9649117, US9642709, US9642632, US9616205, US9610164, US9603711, US9597194, US9579211, US9579110, US9566157, US9566075, US9561354, US9539097, US9495483, US9492200, US9486226, US9474621, US9474614, US9468448, US9452061, US9451972, US9445915, US9445904, US9445903, US9439767, US9408617, US9408615, US9398956, US9398955, US9398954, US9393121, US9387081, US9387080, US9387079, US9381025, US9375316, US9375222, US9364330, US9358056, US9358029, US9358018, US9357989, US9351745, US9345580, US9339389, US9333085, US9326863, US9326780, US9320620, US9320606, US9314256, US9308091, US9308053, US9308005, US9295482, US9295481, US9286686, US9283076, US9271838, US9241725, US9241724, US9220517, US9220516, US9216025, US9204967, US9204873, US9186254, US9186161, US9180015,

US9144497, US9125673, US9125672, US9119722, US9113921, US9113914, US9107754, US9107680, US9107679, US9089342, US9084617, US9078900, US9072531, US9066802, US9066728, US9066716, US9055955, US9055953, US9044343, US9023112, US9023050, US9020788, US9017334, US9011547, US9011456, US9005307, US9005306, US8998915, US8979939, US8979938, US8979926, US8974539, US8965088, US8961614, US8956366, US8951260, US8951259, US8945230, US8936648, US8932363, US8926706, US8926615, US8920501, US8906107, US8894717, US8888861, US8888860, US8882847, US8864827, US8862202, US8849621, US8845746, US8845741, US8845740, US8845739, US8840676, US8834233, US8828088, US8828081, US8808303, US8795378, US8784865, US8771365, US8768028, US8735773, US8715356, US8709089, US8702803, US8702767, US8700198, US8690945, US8682052, US8663230, US8658195, US8657827, US8641716, US8634617, US8623026, US8617242, US8617172, US8585708, US8568480, US8568479, US8562618, US8562616, US8562611, US8561278, US8556983, US8556972, US8556907, US8556906, US8556902, US8551181, US8551169, US8551103, US8551102, US8551099, US8545569, US8540717, US8535324, US8529936, US8529630, US8523872, US8512413, US8500740, US8480754, US8480751, US8475505, US8460304, US8460274, US8439978, US8439926, US8388624, US8377129, US8369926, US8366771, US8361163, US8361159, US8361147, US8357389, US8343528, US8343218, US8337507, US8337501, US8328873, US8317870, US8308812, US8308810, US8306601, US8303977, US8292967, US8287601, US8266780, US8265730, US8257444, US8234097, US8206734, US8197550, US8192491, US8187280, US8177841, US8163028, US8157869, US8147559, US8128703, US8123815, US8123814, US8122582, US8112142, US8105330, US8083745, US8077950, US8070823, US8066778, US8066708, US8062302, US8036729, US8029574, US8029566, US8021432, US8016884, US7991599, US7981158, US7951163, US7914580, US7914545, US7901408, US7896885, US7896883, US7881768, US7857817, US7828853, US7799077, US7780740, US7758653, US7726969, US7717956, US7713305, US7678151, US7635447, US7618462, US7611653, US7604641, US7597715, US7534263, US7510558, US7497874, US7468075, US7445639, US2016030337, US2015366668, US2015245918, US2015216668, US2015190232, US2015045905, US2014296991, US2014296986, US2014207234, US2013231750, US2013123932, US2013046310, US2012239160, US2012221115, US2012136443, US2012116527, US2012046750, US2012035733, US2011251692, US2011236456, US2011184376, US2011130763, US2010324691, US2010312348, US2010262250, US2010243429, US2010222892, US2010179663, US2010125341, US2010080835, US2009299228, US2009287311, US2009259314, US2009259313, US2009259312, US2009259311, US2009254193, US2009208540, US2009192620, US2009149965, US2009125108, US2009048679, US2008294266, US2008286721, US2008234830, US2007202462, US2007179613, US2006235539, US2006085006, US2004015170, KR20120008018, KR101707791, FR2906147, EP3111891, EP2985003, EP2451382, EP2451382, EP2400927, EP1992304, EP1917984, EP1854430, EP1680049, EP1680049, DE102011001590, CN104887333, CN104321036, CN103957845, CN103945795, CN103379879, CN103379879, CN103281990, CN103260553, CN103203815, CN103203815, AU2013362290,

Abstract:
Source: US2005085915A The present invention seeks to provide improved joint implants and methods relating to joint implantation.

153) Family number: 25104300 (US3854906A) © PatBase

Title: DEVICE FOR VENTING AND AERATING CLOSED CIRCULATORY WATER FLOW SYSTEMS

Priority: DE19722200904 19720108 DE19722260349 19721209 NL19730000125 19730104 US19730321970 19730108 NL19780004643 19780428 US19750581662 19750528 US19740526314 19741122

Family:

Publication number	Publication date	Application number	Application date
AU197362919 A1	19750529	AU19730062919	19731127
BE793755 A1	19730502		19730108
CA991503 A1	19760622	CA19730160616	19730105
DE2200904 A1	19730719	DE19722200904	19720108
DE2200904 B2	19771027	DE19722200904	19720108
DE2200904 C3	19780615	DE19722200904	19720108
DE2260349 A1	19740612	DE19722260349	19721209
FR2173932 A1	19731012	FR19730000201	19730104
FR2173932 B1	19770902	FR19730000201	19730104
GB1368554 A	19740925	GB19730000990	19730108
IE37087 B	19770427	IE19730000023	19730108
IE37087 L	19730708	IE19730000023	19730108
IT976768 A	19740910	IT19730047545	19730105
JP1004437 C3	19800630	JP19730004595	19730106
JP49006756 A2	19740121	JP19730004595	19730106
JP54035020 B4	19791030	JP19730004595	19730106
NL156225 B	19780315	NL19730000125	19730104
NL156225 C	19780815	NL19730000125	19730104
NL171087 B	19820901	NL19780004643	19780428
NL171087 C	19830201	NL19780004643	19780428
NL7300125 A	19730710	NL19730000125	19730104
NL7804643 A	19781031	NL19780004643	19780428
US3854906 A	19741217	US19730321970	19730108
US4027691 A	19770607	US19750581662	19750528
YU201980 A	19840831	YU19800002019	19800811
YU2973 A	19810228	YU19730000029	19730108
YU37222 B	19840831	YU19730000029	19730108

Probable Assignee: SPIRO RESEARCH NV

Assignee(s):(std): RESEARCH NV SPIRO ; SPIRO RESEARCH NV ; SPIRO RESEARCH N V TE HELMOND ; SPIRO N V RESEARCH ; N V SPIRO RESEARCH HELMOND

Assignee(s): N V SPIRO RESEARCH HELMOND NIEDERLANDE ; N V SPIRO RESEARCH INDUMAWEG 6 A HELMOND PAYS BAS ; N V SPIRO RESEARCH ; ROFFELSEN FRANCISCUS ; SPIRO RESEARCH HELMOND NIEDERLANDE NV ; SPIRO RESEARCH TE HELMOND NV ; SPIRO RESEARCH NV NL ; SPIRO RES NV NL

Inventor(s):(std): FRANCISCUS ROFFELSEN ; ROFFELSEN F ; ROFFELSEN FRANCISCUS

Inventor(s): ROFFELSEN FRANCISCUS HELMOND NIEDERLANDE ; ROFFELSEN F NL

International class (IPC 8–9): B01D19/00 F16K24/04 F16L55/07 F24D19/08 F24D3/10 (Advanced/Invention); B01D19/00 F16K24/00 F16L55/07 F24D19/00 (Core/Invention)

International class (IPC 1–7): B01D19/00 C02B C11D1/22 C11D7/02 E03B1/00 E03B7/07 F16K11/00 F16K24/00 F16K24/02 F16K24/04 F16K31/20 F16K45/00 F16K45/02 F16L55/06 F24D3/02 F24D3/10 F24H9/00 F24H9/20

CPC:	F24D19/08 F24D19/083 F16K24/048 F16L55/07 Y10T137/3099 Y10T137/783 Y10T137/7936
European class:	F16K24/04B2 F16L55/07 F24D19/08 F24D19/08D2
US class:	137/202 137/505.46 137/543.17 55/159 96/165 96/167 96/204 96/208

Classification Explorer

Cited documents:	US3768504 A, US3668822 A, US3662781 A, US3586032 A, US3342207 A, US3168103 A, US3077206 A, US2898930 A, US2745511 A, US2638925 A, US2518387 A, US2217655 A, US2106512 A, US1424756 A, US1075780 A, JP46033032 U1, JP39003488 Y1,
Forward Citations:	WO9638694, WO8203259, WO13151416, WO13151415, US8419842, US8177975, US7364609, US6893485, US6119951, US5676740, US5660618, US5601635, US5490874, US5123938, US4612962, US4417907, US4381928, US3952765, US2011107915, US2008006580, US2006086388, US2005155925, US2005132889, US2003221560, NL1000494, JP62197557, JP61091303, JP58500373, FR2606116, FR2579903, EP1772677, EP0391484, EP0197860, DE3543355, DE3422788, DE3237446, DE3208998, DE3012078,

Abstract:
Source: US3854906A A venting and aerating arrangement for closed flow systems for water of fluctuating temperature is disclosed. A vent casing, defining an air collecting chamber, extends upwardly from a horizontal conduit of the system. A float controlled vent valve is arranged in the upper portion of the casing. A grid of spaced rods is arranged in the junction between casing and conduit and extends into the flow passage of the conduit to break up bubbles of air and other gases with the liberated gas ascending into the air collecting chamber. An improved valve construction is also disclosed.

154) Family number: 23434032 (US4787846A) © PatBase

Title: Device for shutting off suction generated through the single tubes of dental surgery equipment

Priority: IT19860040076 19860724

Family:

Publication number	Publication date	Application number	Application date
AU198775967 A1	19880128	AU19870075967	19870721
AU590433 B2	19891102	AU19870075967	19870721
DE3775296 D1	19920130	DE19873775296	19870612
EP0254687 A1	19880127	EP19870830222	19870612
EP0254687 B1	19911218	EP19870830222	19870612
IT1201707 A	19890202	IT19860040076	19860724
IT8640076 A0	19860724	IT19860040076	19860724
JP63046149 A2	19880227	JP19870185329	19870724
US4787846 A	19881129	US19870058562	19870605

Probable Assignee: AUGUSTO CATTANI AND C OFF SPA

Assignee(s):(std)**:** AUGOSTO CATTANI AND C SPA OFF ; AUGUST KATSUTANI E CO OFF SPA ; AUGUST KATSUTANI E CO SPA OFF ; OFFICINE AUGUSTO CATTANI AND C S P A ; OFFICINE AUGUSTO CATTANI AND C SPA ; OFF AUGUST KATSUTANI E CO SPA ; CATTANI OFF AUGUSTO AND CO ; CATTANI SPA

Assignee(s): OFFICINE AUGOSTO CATTANI AND C SPA ; CATTANI S P A ; CATTANI S P A PARMA IT ; AUGUSTO CATTANI AND C OFF SPA

Inventor(s):(std)**:** AUGUSTO CATTANI ; AUGUSUTO KATSUTANI ; CATTANI AUGUSTO

Inventor(s): CATTANI AUGUSTO I 43100 PARMA IT

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD

Designated states: CH DE FR GB LI SE

International class (IPC 8–9): A61C1/00 A61C17/06 A61C17/08 A61C3/00 (Advanced/Invention); A61C1/00 A61C17/06 A61C3/00 (Core/Invention); A61C (Subclass/Invention)

International class (IPC 1–7): A61C1/00 A61C17/04 A61C17/06 A61C3/00

CPC: A61C17/04

European class: A61C17/04

US class: 433/28 433/95

Classification Explorer

Cited documents: US4340368 A, US4226590 A, US4212300 A, US4015336 A, US3988134 A, US3645497 A, US3482313 A, US3476144 A, US3232578 A, US2590290 A, FR849232 A, EP0040181 A1,

Forward Citations: WO9505787, JP4864894, EP0445091, AT399452,

Abstract:
Source: US4787846A The invention relates to a device for shutting off suction generated through the single tubes of dental surgery equipment, which comprises a rotary mechanical obturator (5) located in the grip (1) of the suction tube (2) and attached to a pin (3) that engages in a helical groove (6) offered by the holder (4) in which the grip is replaced whenever the tube is not in use. Pin and obturator rotate as one between an open position and a closed position, the obturator being biased permanently toward the open position by a coil spring (7).

0) US2757582A – SEPARATION OF GAS AND UNDESIRED PARTICLES FROM ...

155) Family number: 30995926 (US2757582A) © PatBase

Title: SEPARATION OF GAS AND UNDESIRED PARTICLES FROM LIQUIDS

Priority: CA19520636687 19520924 US19520324561 19521206 US19520324562 19521206 US19530331062 19530113 US19530331061 19530113 US19540425942 19540427

Family:

Publication number	Publication date	Application number	Application date
CH319593 A	19570228		19530916
CH330376 A	19580531		19550427
DE1069116 B	00000000		00000000
DE1069116 C	00000000		00000000
FI40262 B	19680731	FI19530001445	19530924
FI40770 B	19690131	FI19680000103	19680116
FR1083274 A	19550106		19530911
FR68617 E	19580505		00000000
GB740588 A	19551116	GB19530023717	19530827
GB768537 A	19570220	GB19550012193	19550427
NL181479 C	00000000		00000000
US2757581 A	19560807	US19530331061	19530113
US2757582 A	19560807	US19540425942	19540427
US2816490 A	19571217	US19520324562	19521206
US2849930 A	19580902	US19520324561	19521206
US2920761 A	19600112	US19530331062	19530113

Probable Assignee: NICHOLS ENGINEERING AND RES CO

Assignee(s):(std)**:** HORACE FREEMAN ; JOHN DOUGLAS BOADWAY ; NICHOLS ENG AND RES CORP ; NICHOLS ENGINEERING AND RES CO ; NICHOLS ENGINEERING AND RESEARCH CORP

Inventor(s):(std)**:** JOHN DOUGLAS BOADWAY ; HORACE FREEMAN ; FREEMAN HORACE ; FREEMAN H ; BOADWAY JOHN DOUGLAS ; BOADWAY JOHN D ; BOADWAY J

Inventor(s): DOUGLAS BOADWAY JOHN

International class (IPC 8–9)**:** B01D19/00 B01D21/00 B04C3/00 B04C5/081 B04C5/107 B04C5/12 B04C5/14 B04C5/15 B04C5/18 B04C5/185 D21D5/18 D21D5/24 D21D5/26 (Advanced/Invention); B01D19/00 B01D21/00 B04C3/00 B04C5/00 D21D5/00 (Core/Invention)

International class (IPC 1–7)**:** B01D19/00 B01D21/26 B04C3/00 B04C5/081 B04C5/107 B04C5/12 B04C5/14 B04C5/15 B04C5/185 D21D5/24

CPC: Y10S261/54 B01D21/0087 B01D21/34 B01D21/267 B01D21/0003 D21D5/26 B01D19/0057 B01D21/2411 B04C3/00 B04C5/081 B04C5/107 B04C5/12 B04C5/14 B04C5/15 B04C5/18 B04C5/185 D21D5/18 D21D5/24 B04C3/06 B01D21/2427 B01D21/00

European class: B01D19/00P4B B01D21/00 B01D21/00B B01D21/24A2 B01D21/26 B04C3/00 B04C5/081 B04C5/107 B04C5/12 B04C5/14 B04C5/15 B04C5/18 B04C5/185 D21D5/18 D21D5/24 D21D5/26

US class: 209/17 209/725 209/729 209/730 209/731 209/732 209/733 209/734 210/512.1 261/DIG.54 55/459.5 55/460 95/261 95/266 96/195 96/209 96/210

Classification Explorer

Cited documents: US960725 A, US2878934 A, US2737857 A, US2685937 A, US2655263 A, US2648433 A, US2645347 A, US2642950 A, US2614656 A, US2578568, US2571219 A, US2506298 A, US2401079, US2393112 A, US2377524 A, US2346005 A, US2312706 A, US2187646 A, US2102525 A, US2098608 A, US1766666 A, US1570040 A, US1197946, GB607787 A, GB507412, GB429028, FR948737, DE874581, DE827491, DE687966, CH238137 A,

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Abstract:
Source: US2757582A 740,588. Centrifugal separators. FREEMAN, H., and BOADWAY, J. D. Aug. 27, 1953 [Sept. 24, 1952; Dec. 6, 1952; Dec. 6, 1952; Jan. 13, 1953; Jan. 13, 1953], No. 23717/53. Class 23. Solids and gases are removed from liquids in a process in which a non−rotary separator is operated so that a liquid−free core is formed, gas being evacuated from the core to maintain subatmospheric pressure in the core. Fig. 1 shows a separator suitable for purifying paper pulp and comprising a convergent inlet 11 directing the pulp tangentially into a separating chamber 10, an outlet 21 for purified pulp and some gas connected to suction means, an outlet 18 for gas connected to suction means and an outlet 20 for solids separated from the pulp. In the modification shown in Fig. 12 the purified pulp and separated solids are discharged under pressure so that gas is only evacuated by suction means. As the separated solids pass a gas outlet 107 into a chamber 123 some of their kinetic energy is converted into pressure energy so that they are discharged at pressure through the outlet 111. The purified pulp and some of the separated gas pass upwardly through the outlet 115 to a chamber 120, some of the kinetic energy of the pulp being converted into potential energy before discharge through a divergent outlet 121 and the gas being discharged through an outlet 108. In a further modification, Fig. 14 (not shown), the gas is discharged from both ends of the separator, the pulp to be separated first passing through a disclike chamber before entering a cylindrical separating chamber and the pulp and separated solids being discharged from the end of the separator remote from the inlet by means of two disc−like chambers having tangential outlets. In the modification shown in Fig. 16 all the separated gas is evacuated through an outlet 158 adjacent the inlet 151, and the pulp and solids are removed from the separator from the end remote from the inlet, the outlet for pulp being connected to a suction pipe 166 and the separated solids being discharged through a pipe 164. In a modification of the construction shown in Fig. 16 a body is centrally placed in the separator adjacent the outlet 164, to prevent gas entraining with the separated pulp. In a modification, Fig. 19 (not shown), the separator comprises a hydro−cyclone having the tapering part discharging into a vacuum chamber, the purified pulp discharging through a concentric outlet adjacent the inlet, and the separated solids and gas discharging into the vacuum chamber from which they are separately removed. In the plant shown in Fig. 2 pulp, at about 100? F., from a pipe 31 first passes through a separator 10a similar to that shown in Fig. 1, the purified pulp and separated gas from the separator 10a being directed to a separator 33 which separates the gas from the purified pulp and is as shown in Fig. 8. The gas outlet of the separator 33 is connected by pipes 34, 35, 36 to a vacuum pump 37. Cold water is supplied at 41 to condense any vapour present in the gas, the condensed vapour falling through a pipe 42 and a further pipe 43 which is over 32 feet long and into the top of which gas from the separator 10a is discharged. The purified pulp from the separator 33 is discharged into the head box 40 of a paper making machine by means of a pipe 38 over 32 feet long. The pulp discharged from the separator 10a with the separated solids is separated in a hydrocyclone 80 and discharged into the headbox. Up to 90 per cent of the gas is usually separated from the pulp. In modifications of the plant shown in Fig. 2, any of the modification of the hydro−cyclone shown in Fig. 1 may be used for the separator 10a. In the separator 33, Fig. 8, the tapering lower part of the separator and the inclination of the tangential pulp inlet 32 are so shaped and arranged that the inner parts of the layer of pulp in the lower part of the separator tend to move upwardly and the outer parts of the layer tend to move downwardly. The separated gas is withdrawn through the outlet pipe 34 connected to the suction means, and the pulp free of gas is withdrawn

by the suction pipe 38. Dimensions and performance figures for the apparatus are given in the Specification.

0) US2005217667A – AEROSOL DELIVER APPARATUS IV

156) Family number: 32284171 (US2005217667A) © PatBase

Title: AEROSOL DELIVER APPARATUS IV

Priority: US20040812618 20040330 US20060535596 20060927 WO2005US10274 20050329

Family:

Publication number	Publication date	Application number	Application date
CA2561179 AA	20060926	CA20052561179	20050329
US2005217667 AA	20051006	US20040812618	20040330
US2007068516 AA	20070329	US20060535596	20060927
US7743764 BB	20100629	US20060535596	20060927
WO05097242 A2	20051020	WO2005US10274	20050329
WO05097242 A3	20060615	WO2005US10274	20050329

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Agent(s): SMART AND BIGGAR; SUNIL DHUPER; DARBY AND DARBY PC; LEASON ELLIS 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 KP KR KZ LC 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 SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): A61M11/00 A61M15/00 (Advanced/Invention); A61M11/00 A61M15/00 (Core/Invention)

International class (IPC 1–7): A61M11/00 A61M15/00

CPC: A61M15/0088 A61M15/0086 A61M15/009

European class: A61M15/00K K61M15/00K2 K61M15/00P

US class: 128/200.14 128/200.22 128/200.23 128/203.15

Classification Explorer

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Abstract:
Source: US2005217667A A multipurpose aerosol medication delivery apparatus that includes a

collapsible/expandable, or a fixed volume, or a combination of partially fixed volume and partially collapsible/expandable holding chamber for use with a metered dosed inhaler (MDI) and/or any standard small volume nebulizer. The holding chamber is designed to deliver−aerosol medication particles generated by an MDI; aerosol medication particles generated by a nebulizer; a single gas or a mixture of gases; a single gas or a mixture of gases that can yield a gas density that will enhance aerosol delivery of medication with both MDI and nebulizer; a single gas or a mixture of gases that will yield and deliver an oxygen concentration to a patient ranging from room air concentration to 100 percent. The device includes a reservoir that stores nebulized aerosol generated during exhalation to be inhaled during the next breath. The device also included a one way valve to prevent carbon dioxide generated during exhalation from rebreathing by not allowing the exhaled air from entering the holding chamber. The device includes an exit port with a second one way valve that allows the exhaled air to exit the device but closes during inhalation to prevent any entrainment of room air gas. The exit port may instead have a filter with one−way valve to trap the exhaled aerosol particles while allowing the exhaled gases to escape. The filter valve will similarly close during inhalation to prevent entrainment of room air gas. The holding chamber will allow a uniform mixture of aerosol medication and gases to flow together during inhalation to the patient via a mouthpiece or a facemask. The holding chamber is connected to a nebulizer chamber with a single or multiple connecting tubes that allow gas mixtures with varying density, viscosity, humidity and concentration of oxygen to flow into the holding chamber from the nebulizer chamber. The pattern of flow of the gas(es) does not disturb the flow of the nebulized medication from the nebulizer chamber to the holding chamber or interfere with the plume generated by an MDI. The device also serves as a facemask for delivering precise concentrations of oxygen or as a 100 percent non−rebreather mask. The device also serves to deliver precise concentrations of different density gases i.e. nitrogen, helium, oxygen, etc. This will allow varying fractions of inspired oxygen to deliver aerosol medication via MDI or a nebulizer. Thus, the device has the ability to deliver aerosol medication with an MDI or a nebulizer while retaining the ability to simultaneously deliver different density gas mixtures and varying fraction of inspired oxygen without interrupting one for the other.

0) US5243988A – INTRAVASCULAR IMAGING APPARATUS AND METHODS FOR...

157) Family number: 8826099 (US5243988A) © PatBase

Title: INTRAVASCULAR IMAGING APPARATUS AND METHODS FOR USE AND MANUFACTURE

Priority: CA19932090069 19930222 JP19920510598 19920313 US19910668919 19910313 US19920840917 19920221 JP20000037776 19930222 JP19930032121 19930222 US19920926182 19920807 US19920895094 19920608 US19940275022 19940713 WO1992US02117 19920313

Family:

Publication number	Publication date	Application number	Application date
CA2082161 AA	19921104	CA19922082161	19920313
CA2090069 AA	19930822	CA19932090069	19930222
CA2090069 C	20001010	CA19932090069	19930222
EP0529069 A1	19930303	EP19920910470	19920313
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JP2000189421 A2	20000711	JP20000037776	19930222
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JP3411929 B2	20030603	JP19930032121	19930222
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JP3507391 B2	20040315	JP20000037776	20000216
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US5445155 A	19950829	US19940275022	19940713
WO9216147 A1	19921001	WO1992US02117	19920313

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Agent(s): BARRIGAR AND MOSS; CASSAN MACLEAN

Designated states: AT BE CA CH DE DK ES FR GB GR IE IT JP LI LU MC NL PT SE

International class (IPC 8–9)**:** A61B1/00 A61B1/04 A61B8/00 A61B8/12 A61B8/14 A61M25/01 G01B17/00 G01S15/89 G01S7/52 (Advanced/Invention); A61B1/00 A61B8/12 G01B17/00 G01S15/00 G01S7/52 (Core/Invention)

International class (IPC 1–7)**:** A61B1/00 A61B1/04 A61B8/00 A61B8/12 A61B8/14 A61M25/01 G01B17/00 G01S15/89 G01S7/52

CPC: Y10S128/925 A61B8/445 G01S15/8956 A61B8/12 A61B8/4461 A61B8/4488 G01S7/52034 G01S15/8938 G01S15/899

European class: A61B8/12 A61B8/44N6 G01S15/89D2B G01S15/89D3C G01S15/89D8 G01S7/52S2E K61B8/12 K61B8/44R2

US class: 128/660.07 128/661.04 128/661.08 128/662.03 128/662.06 128/772 128/925 600/443 600/450 600/459 600/462 600/463 600/467 600/585

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Abstract:
Source: US5243988A A device for ultrasonic imaging, and methods for the use an manufacture thereof, particularly of small coronary vessels. The device comprises an elongate member with a distal end that can be positioned within a small vessel of a patient's body while a proximal end is located outside the body, a transducer located at a distal end of the elongate member and operable to scan the distal coronary vessels with ultrasonic pulses, and a signal processor connected to a proximal end of the elongate member and to the transducer for generating and receiving pulses to and from the transducer. A motor may be also connected to the proximal end of the elongate member for rotating the transducer.

158) Family number: 54633334 (US2013226289A) © PatBase

Title: PERCUTANEOUS ANNULOPLASTY SYSTEM WITH ANTERIOR–POSTERIOR ADJUSTMENT

Priority: US20120604856P 20120229 US20120734904P 20121207 US20130779478 20130227 US20130799642 20130313 WO2013US28065 20130227 US20150886175 20151019 WO2013US73552 20131206

Family:

Publication number	Publication date	Application number	Application date
EP2819619 A1	20150107	EP20130755441	20130227
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US2013226289 AA	20130829	US20130779478	20130227
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US2016038286 AA	20160211	US20150886175	20151019
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WO13130641 A1	20130906	WO2013US28065	20130227
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Probable Assignee: VALCARE INC

Assignee(s):(std)**:** VALCARE INC

Assignee(s): VALCAREINC

Inventor(s):(std)**:** DUMONTELLE JEFFREY ; YELLIN NADAV ; SHAOLIAN SAMUEL M ; PACKHAM VICTOR S ; DUMONTELLE JEFFREY P ; CAO HUNG H

Agent(s): BRADLEY ADRIAN; PEPPER HAMILTON LLP; BARKER AARON D; HELMSEN JOSEPH T

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

International class (IPC 8–9): A61F A61F2/24 A61M A61M25/01 A61M25/088 A61M39/22 (Advanced/Invention); A61F A61M (Subclass/Invention)

CPC: A61F2250/001 A61F2210/0014 A61F2/2448 A61F2220/0016 A61F2/2427 A61F2/2466 F04C2270/0421

US class: 1/1 623/2.11 623/2.37

Classification Explorer

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Forward Citations: US9662209, US9662206, US9655722, US9636224, US9622861, US9610162, US9592122, US9585751, US9579198, US9579196, US9572662, US9561104, US9526613, US9474606, US9433503, US9421098, US9414921, US9414919, US9402721, US9387075, US9358108, US9351830, US9295552, US9277994, US9265608, US9192472, US9180008, US9155620, US9125740, US9119719, US9039757, US9034033, US9034032, US8926695, US8858623, US2016338830, US2015257882, US2015257880, US2014013602,

Abstract:
Source: US2013226289A Apparatus, systems, and methods are provided for repairing heart valves through percutaneous transcatheter delivery and fixation of annuloplasty rings to heart valves. An annuloplasty ring includes an outer hollow body member including a plurality of regions. Adjacent regions cooperate with one another to change the body member from an elongate insertion geometry to an annular operable geometry. Adjacent regions are coupled by a biasing element or a stepped connector to allow expansion to an expanded state and contraction to a contracted state in the annular operable geometry. The annuloplasty ring also includes an internal anchor member located at least partially within the body member and having a plurality of anchors configured to attach the annuloplasty ring to tissue of a heart valve annulus. An angled ring closure lock allows coupling of the ends of an annuloplasty ring at an apex of a D−shape annular operable geometry.

159) Family number: 14416587 (US5186713A) © PatBase

Title: EXTRACORPOREAL BLOOD OXYGENATION SYSTEM AND METHOD FOR PROVIDING HEMOPERFUSION DURING TRANSLUMINAL BALLOON ANGIOPLASTY PROCEDURES

Priority: US19900609301 19901101 WO1992US02449 19920326

Family:

Publication number	Publication date	Application number	Application date
US5186713 A	19930216	US19900609301	19901101
WO9318815 A1	19930930	WO1992US02449	19920326

Probable Assignee: JOSTRA BENTLEY INC

Assignee(s):(std): BAXTER INT

Assignee(s): BAXTER INT INC ; BAXTER INT INC DEERFIELD IL A DE CORP ; BAXTER INTERNATIONAL INC ; EDWARDS LIFESCIENCES CORP ; JOSTRA BENTLEY INC

Inventor(s):(std): RAIBLE DONALD A

Designated states: AT BE CA CH DE DK ES FR GB GR IT JP LU MC NL SE

International class (IPC 8–9): A61M1/16 A61M25/01 (Advanced/Invention); A61M1/16 A61M25/01 (Core/Invention)

International class (IPC 1–7): A61M1/16 A61M29/02 A61M37/00

CPC: A61M1/1625 A61M1/1698 A61M25/01

European class: A61M1/16S A61M25/01 K61M1/16B1C

US class: 604/4 604/6.14 604/96 606/191 606/194

Classification Explorer

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Forward Citations: WO9938560, WO09059371, WO09059371, USRE37379, USRE35352, US9510855, US9278201, US9248265, US9101711, US9078982, US8900115, US8545754, US7993260, US7614997, US7591778, US7588531, US7513863, US7491163, US7445592, US7294278, US7008535, US6974435, US6951555, US6932792, US6913600, US6902556, US6896663, US6866650, US6759008, US6746417, US6622367, US6607698, US6602468, US6589206, US6582387, US6482171, US6481439, US6451004, US6436087, US6435189, US6423031, US6398752, US6383172, US6312647, US6295990, US6293920, US6251093, US6248087, US6248086, US6224619, US6159178, US6090096, US6056723, US6044845, US5997505, US5971973, US5941894, US5935103, US5885453, US5885238, US5879499, US5868702, US5865789, US5863366, US5814016, US5810757, US5800375, US5795325, US5792094, US5769812, US5765568, US5762624, US5759170, US5755687, US5725496, US5702368, US5640995, US5584803, US5433700, US5391142, US2016015955, US2010318178, US2010094075, US2010094074, US2009093751, US2006276681, US2006270965, US2006270895, US2006270892, US2006270891, US2006264694, US2006264693, US2006264689, US2006054554, US2005277870, US2005277804, US2005277803, US2005148997, US2005113631, US2004236172, US2004138519, US2004019319, US2003225359, US2002188167, US2002161321, EP1129744,

Abstract:
Source: US5186713A A method, device and system for providing a flow of oxygenated perfusion fluid (e.g. oxygenated whole blood) through a balloon angioplasty catheter to perfuse tissues which would normally be deprived of blood flow when the balloon of the angioplasty catheter is inflated. In accordance with the invention, an extracorporeal membrane oxygenation device is fluidly connected to the angioplasty catheter such that oxygenated fluid (e.g. oxygenated whole blood) may be passed through the catheter and caused to exit the catheter distal to the angioplasty balloon. The patient's own blood may be withdrawn, oxygenated by the extracorporeal membrane oxygenation device and subsequently reinfused through the angioplasty catheter. A dual–lumen introducer sheath may be employed for the dual function of a) facilitating insertion of the catheter and b) allowing withdrawal of blood for subsequent oxygenation and reinfusion through the angioplasty catheter.

0) US5752825A – ENDODONTIC TREATMENT SYSTEM

160) Family number: 29440389 (US5752825A) © PatBase

Title: ENDODONTIC TREATMENT SYSTEM

Priority: EP19950302902 19950428 EP19980202438 19950428 JP19950106540 19950428
US19940234290 19940428 US20010845599 20010426 US19960653492 19960524
US19960653323 19960524 US19960653355 19960524 US19960653324 19960524

Family:

Publication number	Publication date	Application number	Application date
DE69507912 D1	19990401	DE19956007912	19950428
DE69507912 T2	19990812	DE19956007912T	19950428
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Inventor(s): BUCHANAN LEONARD STEPHEN SANTA BARBARA CALIF

Agent(s): HENRY M

Designated states: CH DE ES FR GB IT LI SE

International class (IPC 8–9): A61C3/00 A61C5/02 (Advanced/Invention); A61C5/02 A61C5/04 (Advanced/Non–invention); A61C3/00 (Core/Non–invention)

International class (IPC 1–7): A61C19/00 A61C3/00 A61C5/02 A61C5/02

CPC: A61C5/42 A61C5/55

European class: A61C5/02B1 K61C5/04H

US class: 433/102 433/224 433/32

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Abstract:
Source: US5752825A An endodontic system of shaping instruments, irrigation cannulas, filling instruments and materials designed to safely create specific tapers of root canal preparations and to clean, dry, seal, and restore them. The shaping instruments are a series of reamers, files, and handpiece burs, made of stainless steel,

nickel–titanium, or other alloys, which impart several different specifically–tapered apertures in root canals. The instruments have one or more safety features to eliminate perforating curved roots, including shorter flute length as the angle of taper increases and variable sharpness along the length of the flute portion, as well as variable flute pitch along the length of the flute portion to maximize cutting efficiency and resistance to breakage, and a rounded tip to eliminate ledging. The hand instruments have a handle designed to optimize use of the instruments in apically directed, rotary cutting motions. The irrigation cannulas, the condensation heat carriers, pluggers, injection needles, and backfillers, and the materials, including drying paper points, filling materials, and restorative post systems, have shapes which match the canal tapers created by the shaping instruments.

0) US2006217697A – APPARATUS AND METHOD FOR REGULATING TISSUE WELD...

161) Family number: 33397868 (US2006217697A) © PatBase

Title: APPARATUS AND METHOD FOR REGULATING TISSUE WELDER JAWS

Priority: JP20080503183 20060324 US20050090330 20050325 US20110047778 20110314 US20120549367 20120713 US20140148671 20140106 WO2006US10569 20060324 US20150629423 20150223 US20170432699 20170214

Family:

Publication number	Publication date	Application number	Application date
AT481048 E	20101015	AT20060739388T	20060324
CA2602381 AA	20070918	CA20062602381	20060324
DE602006016921 D1	20101028	DE200660016921T	20060324
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US2006217697 AA	20060928	US20050090330	20050325
US2011257643 AA	20111020	US20110047778	20110314
US2013018373 AA	20130117	US20120549367	20120713
US2014194876 AA	20140710	US20140148671	20140106
US2015164575 AA	20150618	US20150629423	20150223
US2017156782 AA	20170608	US20170432699	20170214
US7918848 BB	20110405	US20050090330	20050325
US8623003 BB	20140107	US20120549367	20120713
US8961503 BB	20150224	US20140148671	20140106
US9610113 BB	20170404	US20150629423	20150223
WO06104836 A2	20061005	WO2006US10569	20060324
WO06104836 A3	20070104	WO2006US10569	20060324

Probable Assignee: MAQUET CARDIOVASCULAR LLC

Assignee(s):(std)**:** ABBOTT RYAN ; ABBOTT RYAN C ; CALLAS PETER ; CALLAS PETER L ; DANG KENNY ; DANG KENNY L ; LAU LIMING ; LIN ARTHUR M ; HO SAM ; ESCANO ARNOLD M ; JARRARD JERRY ; LAMBERTI JOSEPH N ; LIN ARTHUR ; ESCANO ARNOLD ; LAMBERTI JOSEPH ; MAQUET CARDIOVASCULAR LLC ; HO SAMUEL ; HO SAMNUEL ; MCQUISTON JESSE ; STEWART MICHAEL C ; WILLIAMS JUSTIN N ; YEE KRISTOPHER ; ORIGIN MEDSYSTEMS INC ; WILLIAMS JUSTIN ; STEWART MICHAEL ; YEE CHRISTOPHER

Assignee(s): ORIGIN MEDSYSTEMS LLC

Inventor(s):(std)**:** ABBOTT RYAN ; ABBOTT RYAN C ; BARKMAN KIMBERLY D ; CALLAS PETER ; CALLAS PETER L ; DANG KENNY ; DANG KENNY L ; ESCANO ARNOLD ; ESCANO ARNOLD M ; HO SAM ; HO SAMNUEL ; HO SAMUEL ; JARRARD JERRY ; LAMBERTI JOSEPH ; LAMBERTI JOSEPH N ; LAU LIMING ; LIN ARTHUR ; LIN ARTHUR M ; MCQUISTON JESSE ; OTTO KIMBERLY D ; STEWART MICHAEL ; STEWART MICHAEL C ; WILLIAMS JUSTIN ; WILLIAMS JUSTIN N ; WILLIS GEOFFREY H ; YEE CHRISTOPHER ; YEE KRISTOPHER

Agent(s): SIM AND MCBURNEY; LIESEGANG EVA; GUY CUMBERBATCH; VISTA IP LAW GROUP LLP; KIRK; GRACE; WESLEY SCOTT

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

International class (IPC 8–9): A61B1/00 A61B17/00 A61B17/14 A61B17/28 A61B17/29 A61B17/32 A61B18/00 A61B18/04 A61B18/08 A61B18/12 A61B18/14 A61B18/18 A61B18/20 (Advanced/Invention); A61B17/00 A61B17/29 A61B17/34 A61B18/14 A61B19/00 A61B90/00 (Advanced/Non–invention); A61B1/00 A61B17/14 A61B17/28 A61B17/32 A61B18/00 A61B18/04 A61B18/12 A61B18/20 (Core/Invention)

CPC: A61B18/085 A61B17/29 A61B18/1445 A61B2017/00084 A61B2017/00353 A61B2017/00504 A61B2017/2912 A61B2017/2936 A61B2017/2945 A61B2017/3445 A61B2018/1432 A61B18/082 A61B90/03 A61B2018/00601

European class: A61B17/29 A61B18/08B4 K61B17/00C1T K61B17/00E6 K61B17/00L6 K61B17/29H6 K61B17/29J6C4 K61B17/29J8 K61B17/34G4M K61B18/14C12C K61B18/14F2 K61B19/30

US class: 606/28 606/28P 606/29 606/29P 606/46 606/48 606/52

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US2002058938 AA, US2002019631 AA, JP7508666 T2, JP532000 A2, JP4966959 B2, JP2011521723 T2, JP2008534069 T2, JP2008534068 T2, JP2005514102 T2, JP2005058553 A2, JP2003144451 A2, JP2000139943 A2, JP2000135222 A2, JP10511030 T2, EP2285305 A2, EP2106762 A1, EP1894535 A3, EP1894535 A2, EP1885270 B1, EP1878399 A1, EP1861034 B1, EP1632192 B1, EP1632192 A1, EP1330991 B1, EP1330991 A1, EP0538984 B1, EP0538984 A3, EP0538984 A2, DE10328514 B3, CA2602381 AA, CA2602015 AA, AU2006229913 BB,

Forward Citations: WO16153873, WO16100664, WO16068204, WO14158458, WO14151633, WO14148281, WO14004246, WO13156400, WO13036407, WO11159802, WO09032623, WO09032623, WO08150582, USD748259, USD680220, USD652924, USD649247, US9662110, US9655674, US9655624, US9655614, US9655539, US9649111, US9649110, US9636163, US9629814, US9629629, US9629623, US9615826, US9610113, US9603598, US9603595, US9592054, US9592053, US9592052, US9592050, US9585663, US9585658, US9585657, US9579146, US9574644, US9572623, US9572577, US9572574, US9566108, US9566061, US9561038, US9561032, US9554794, US9549775, US9549732, US9545290, US9545262, US9522029, US9517068, US9517063, US9510895, US9510830, US9510828, US9504513, US9498246, US9498242, US9498219, US9492223, US9492167, US9486214, US9480522, US9480476, US9468438, US9463067, US9463060, US9452015, US9451958, US9445868, US9445813, US9439728, US9439717, US9439666, US9439649, US9433419, US9427255, US9421062, US9414838, US9408606, US9408604, US9402679, US9402626, US9398911, US9393015, US9386988, US9386984, US9386983, US9375271, US9375270, US9375268, US9375267, US9375255, US9375227, US9370364, US9370358, US9364233, US9364230, US9358005, US9358003, US9351730, US9351727, US9351726, US9345535, US9345481, US9345477, US9332987, US9332984, US9332974, US9326770, US9326769, US9326768, US9326767, US9320563, US9320523, US9320521, US9320520, US9320518, US9314620, US9314247, US9314246, US9308009, US9307989, US9307988, US9307986, US9307965, US9301759, US9301753, US9301752, US9289256, US9289206, US9283054, US9282974, US9282966, US9282962, US9277957, US9277919, US9272406, US9271799, US9265552, US9254169, US9254122, US9241714, US9237891, US9233241, US9232941, US9226772, US9226751, US9220526, US9220501, US9220500, US9216019, US9211121, US9211120, US9204880, US9204879, US9204878, US9198662, US9198643, US9192433, US9186143, US9179912, US9179911, US9168052, US9138225, US9125662, US9119900, US9119657, US9113940, US9113938, US9113874, US9101385, US9101358, US9095339, US9084606, US9084601, US9078662, US9072536, US9072535, US9072515, US9060770, US9055941, US9050084, US9050083, US9049987, US9044230, US9028519, US9028494, US9028493, US9028483, US9011431, US9005230, US9005198, US8998058, US8991677, US8986199, US8978954, US8973804, US8961503, US8939897, US8931682, US8925788, US8915910, US8911471, US8906035, US8899465, US8898888, US8894638, US8893949, US8888792, US8858554, US8852228, US8844789, US8828031, US8820603, US8789741, US8771260, US8763879, US8763875, US8752749, US8752747, US8747238, US8746530, US8746529, US8734445, US8684253, US8679003, US8672208, US8668130, US8657178, US8657174, US8652150, US8636687, US8622274, US8616431, US8608652, US8608045, US8602288, US8602287, US8597296, US8591506, US8590762, US8585736, US8584919, US8579897, US8579894, US8573465, US8568444, US8568411, US8568410, US8562598, US8551088, US8540749, US8540130, US8540128, US8529563, US8523898, US8506564, US8496574, US8491626, US8491625, US8491624, US8480689, US8480657, US8469992, US8469991, US8457714, US8454602, US8449538, US8430877, US8425505, US8409247, US8409246, US8409200, US8403926, US8361112, US8361066, US8353487, US8337394, US8317806, US8298231, US8262680, US8262655, US8262563, US8252057, US8241204, US8211125, US8172772, US8157834, US8114119, US8114072, US8100922, US8075572, US8070759, US8037591, US8029504, US8027714, US7873402, US7873401, US7869854, US7815662, US7769427, US7655004, US7431642, US2016310207, US2015209102, US2014276731, US2014025052, US2013296843, US2013218199, US2013190569, US2012203240, US2012116262, US2011092808, US2011091853, US2011060335, US2011046439, US2009275828, US2009270854, US2009198228, US2009030428, US2008297287, US2006223435, JP5840326, JP5663710, JP2016007542, JP2014148281, JP2014138879, JP2013215507, JP2013135839, JP2012510350, JP2011526157, EP3138520, EP2977018, EP2753260, EP2664286, EP2514385, EP2502596, EP2425792, EP2392282, EP2392271, EP2198790, EP2090246, CN105188572, CN104703555, CN104039256, CN104039256, AU2012251937, AU2011268411, AU2011218767, AU2011202553,

Abstract:
Source: US2006217697A A surgical apparatus and methods for severing and welding tissue, in particular blood vessels. The apparatus includes an elongated shaft having a pair of relatively movable jaws at a distal end

thereof. A first heating element on one of the jaws is adapted to heat up to a first temperature and form a welded region within the tissue, while a second heating element on one of the jaws is adapted to heat up to a second temperature and sever the tissue within the welded region. The first and second heating elements may be provided on the same or opposite jaws. A control handle provided on the proximal end of the elongated shaft includes controls for opening and closing the jaws, and may include an actuator for sending current through the first and second heating elements. The first and second heating elements may be electrically connected in series, and the first heating element may be bifurcated such that it conducts about one half of the current as the second heating element. A force−limiting mechanism provided either within the control handle, in the elongated shaft, or at the jaws limits the pressure applied to the tissue by the jaws to ensure that the tissue is severed and the ends effectively welded within a short amount of time.

0) US4943275A – INSERTABLE BALLOON WITH CURVED SUPPORT

162) Family number: 4937987 (US4943275A) © PatBase

Title: Insertable balloon with curved support

Priority: US19880253663 19881005 US19880253678 19881005 US19900594852 19901009 US19880259056 19881018 US19880257752 19881014

Family:

Publication number	Publication date	Application number	Application date
EP0363203 A2	19900411	EP19890310201	19891005
EP0363203 A3	19901003	EP19890310201	19891005
JP2297381 A2	19901207	JP19890257996	19891004
US4943275 A	19900724	US19880257752	19881014
US4968300 A	19901106	US19880253678	19881005
US5090957 A	19920225	US19900594852	19901009

Probable Assignee: ABIOMED INC

Assignee(s):(std): ABIOMED INC ; ABIOMED LTD ; ABIOMEDO LTD PAATONAASHITSUPU

Assignee(s): ABIOMED PARTNERSHIP A PARTNERSHIP OF MA LTD ; ABIOMED PARTNERSHIP LTD ; ABIOMED INC A DE CORP ; ABIOMED INC A MA CORP ; ABIOMED LIMITED PARTNERSHIP

Inventor(s):(std): FUREDERITSUKU ERU MAIRUDAA ; MILDER FREDRIC L ; MOUTAFIS TIMOTHY E ; SOORU SUTORITSUKAA ; STRICKER SAUL ; TEIMOSHI II MUUTAFUISU

Designated states: AT BE CH DE ES FR GB GR IT LI LU NL SE

International class (IPC 8–9): A61F2/958 A61M1/10 A61M25/00 (Advanced/Invention); A61M25/00 (Advanced/Non–invention)

International class (IPC 1–7): A61M1/10 A61M25/00 A61M25/10 A61M29/00

CPC: A61M1/1072 A61M25/0041 A61M25/10 A61M25/1002 A61M2025/0063

European class: A61M1/10E51D A61M25/10 K61M25/00R2 K61M25/00S10 K61M25/10A

US class: 600/18 604/103.07 604/914 604/915 604/96 604/96.01 606/194

Classification Explorer

Cited documents: WO8800844 A1, WO8600010 A1, US4741328 A, US4644936 A, US4552127 A, US4483340 A, US4444186 A, US4403612 A, US4315512 A, US4292974 A, US4276875 A, US4077394 A, US4033331 A, US3799172 A, US3380448 A, US2556783 A, EP0277369 A2, EP0194338 A2, EP0047465 A1,

Forward Citations: WO9520341, WO9320861, WO9305706, WO16001440, WO09140213, WO09136034, WO09136034, WO09135174, WO09109801, WO08000066, WO04045676, WO0035358, USRE35352, US9669194, US9649477, US9636258, US9629684, US9629656, US9615775, US9610428, US9603506, US9579488, US9572480, US9561375, US9555176, US9554691, US9468362, US9463068, US9457175, US9439662, US9433715, US9433437, US9399121, US9387031, US9370649, US9351750, US9308361, US9302081, US9295513, US9265407, US9241834, US9220879, US9198736, US9179823, US9167961, US9155492, US9131956, US9119908, US9113911, US9107574, US9101384, US9089282, US9089258, US9084876, US9072626, US9055965, US9050440, US9042979, US9039712, US9039680, US9039657, US9028441, US8979888, US8968269, US8961495, US8961398, US8951225, US8945088, US8932276, US8905922, US8894614, US8870893, US8864787, US8858586, US8852143, US8828041, US8777926, US8777833, US8764786, US8764729, US8764726, US8764709, US8747389, US8740929, US8734387, US8721591, US8715169, US8702689, US8702626, US8702583, US8591394, US8571658, US8540618, US8485199, US8469873, US8454663, US8439687, US8435290, US8425457, US8425397, US8414473, US8388642, US8333731, US8323217, US8317816, US8216122, US8206278, US8190389, US8182432, US8172828, US8146400, US8142422, US8123722, US8118757, US8114113, US8114062, US8100933, US8090433, US8088101, US8080000, US8034071, US8016739, US8002691, US7976518, US7963929, US7955248, US7938835, US7914436, US7909827, US7887478, US7879038, US7862499,

US7799078, US7264622, US7169163, US7156861, US7066914, US6951555, US6932792, US6913600, US6902556, US6866650, US6740104, US6623505, US6589206, US6533770, US6517514, US6482171, US6451004, US6423031, US6398752, US6348048, US6293920, US6280456, US6251093, US6248086, US6224619, US6159178, US6135982, US6090096, US6083198, US6056723, US6027460, US5997505, US5972015, US5971973, US5968068, US5941894, US5935103, US5928193, US5916196, US5885238, US5879499, US5868702, US5865721, US5863366, US5814016, US5810757, US5800375, US5797930, US5795325, US5792094, US5769812, US5765568, US5762624, US5759175, US5759173, US5759170, US5755687, US5755685, US5728063, US5725496, US5722979, US5718861, US5711754, US5702368, US5697906, US5690642, US5683347, US5593419, US5584803, US5569197, US5545138, US5522834, US5514073, US5489271, US5470315, US5458574, US5453076, US5439444, US5433700, US5415639, US5409458, US5381786, US5354276, US5334143, US5308325, US5307814, US5169386, US5100386, US5087246, US2014276406, US2014142559, US2013165818, US2013006291, US2011196499, US2011054452, US2011021987, US2011021986, US2010318087, US2010168755, US2010069881, US2010030113, US2009306700, US2009275919, US2009171284, US2009082698, US2008306441, US2008243140, US2008140084, US2008097154, US2008004652, US2007055277, US2007021769, US2006106461, US2006100635, US2005148997, US2005090936, US2005043737, US2004236366, US2004210231, US2004162519, US2004152945, US2004064083, US2004010263, US2003236495, US2003195547, KR20110055564, KR101653180, JP2011520515, FR2929523, EP2962720, EP2431068, EP2431067, EP1338300, EP0835639, EP0812603, EP0804902, EP0744163, EP0462801, AU767637,

Abstract:
Source: US4943275A A balloon assembly has an intrinsic curvature adapted to a passage in a blood vessel, and is straightened by a removable stiff member extending within the catheter to facilitate insertion along the passage. When the balloon is at a curved portion of the passage, the stiff member is retracted, allowing the balloon and adjacent support to conform to the curved passage and advance further without trauma to the vessel. The curved balloon may be stably positioned in a curved arterial passage and pumped with a pulsatile inflation source.

0) US2016220259A – DELIVERY OF A CLAMPING IMPLANT VIA A PUNCTURE

163) Family number: 63038384 (US2016220259A)

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Title:	DELIVERY OF A CLAMPING IMPLANT VIA A PUNCTURE
Priority:	US20150614018 20150204

Family:

Publication number	Publication date	Application number	Application date
US2016220259 AA	20160804	US20150614018	20150204

Probable Assignee:	NORDEN MEDICAL BV
Assignee(s):(std)**:**	NORDEN MEDICAL BV
Inventor(s):(std)**:**	ABBRING DREWES PIETER ; KALMANN MENNO ; KAPTEIN WIEGER GERARD ; SCHULTING EDWIN ALEXANDER ; SMITS JOHAN
International class (IPC 8–9):	A61B17/122 A61B17/128 A61B17/34 (Advanced/Invention)
CPC:	A61B17/1285 A61B17/122 A61B17/00008 A61B17/3468 A61B17/06066 A61B17/1227 A61B2017/06076 A61B2017/061
US class:	606/215

Classification Explorer

Abstract:
Source: US2016220259A A tool is described for delivering and applying a clamping implant (9; 109) via a puncture in skin tissue (3) and underlying tissue (2) of a patient, comprising a hollow needle (4; 104) bounding a lumen (5; 105) and forming a helix, a plunger (6; 106) of which a distal portion extends in longitudinal direction inside the lumen (5; 105), and a plunger operating member (7; 107) engaging a proximal portion of the plunger (6; 106) projecting from the needle (4; 104), for screwing the plunger (6; 106) further into or out of the needle (4; 104) by screwing rotation of the needle (4; 104) relative to the plunger (6; 106). A system is also described, including such a tool, and a method is also described for delivering and applying a clamping implant (9; 109) using such an instrument.

0) US5047025A – THERMAL ATHERECTOMY DEVICE

164) Family number: 3113206 (US5047025A) © PatBase

Title: Thermal atherectomy device

Priority: US19900464399 19900112 US19900593790 19901005 WO1991US00024 19910109 US19900593790 19901015

Family:

Publication number	Publication date	Application number	Application date
AT164746 E	19980415	AT19910903102T	19910109
CA2038930 AA	19910403	CA19912038930	19910109
DE69129211 D1	19980514	DE19916029211	19910109
DE69129211 T2	19981105	DE19916029211T	19910109
EP0466872 A1	19920122	EP19910903102	19910109
EP0466872 A4	19920624	EP19910903102	19910109
EP0466872 B1	19980408	EP19910903102	19910109
JP4504373 T2	19920806	JP19910503333T	19910109
US5047025 A	19910910	US19900464399	19900112
US5087256 A	19920211	US19900593790	19901005
WO9110405 A1	19910725	WO1991US00024	19910109

Probable Assignee: DELAWARE CAPITAL FORMATION INC

Assignee(s):(std): METCAL INC ; MINNESOTA MINING AND MFG

Assignee(s): METCAL INC A CORP OF CA ; MINNESOTA MINING AND MFG CO A CORP OF DE ; TAYLOR JAMES M ; WIRT DAVID F ; MINNESOTA MINING AND MANUFACTURING COMPANY ; METCAL INC MENLO PARK CALIF US ; BANQUE PARIBAS ; COWELL MARK J ; DOVER TECHNOLOGIES INT ; DELAWARE CAPITAL FORMATION INC ; DOVER TECHNOLOGIES INT INC ; GAY ERIC L

Inventor(s):(std): COWELL MARK ; COWELL MARK J ; GAY ERIC L ; GAY ERIC ; TAYLOR JAMES M ; WIRT DAVID F ; TAYLOR JAMES ; WIRT DAVID

Inventor(s): TAYLOR JAMES M MOUNTAIN VIEW CA 94040 US ; WIRT DAVID F ST PAUL MN 55133 3427 US ; GAY ERIC L ST PAUL MN 55133 3427 US ; COWELL MARK J SAN CARLOS CA 94070 US

Agent(s): BERESKIN AND PARR

Designated states: AT BE CA CH DE DK ES FR GB GR IT JP LI LU NL SE

International class (IPC 8–9): A61B18/00 A61B18/08 A61B18/20 A61M25/00 A61N5/06 (Advanced/Invention); A61B17/22 (Advanced/Non–invention); A61B18/00 A61B18/04 A61B18/20 A61N5/06 (Core/Invention); A61B17/22 (Core/Non–invention)

International class (IPC 1–7): A61B17/36 A61B17/38 A61M25/00 A61N5/06

CPC: A61B18/082 A61B2017/22001

European class: A61B18/08B K61B17/22A

US class: 128/401 606/28 606/29 606/31

Classification Explorer

Cited documents: US4978346 A, US4899741 A, US4839501 A, US4807620 A, US4790311 A, US4785815 A, US4769519 A, US4760845 A, US4748979 A, US4747405 A, US4745264 A, US4708136 A, US4691703 A, US4685458 A, US4672962 A, US4654024 A, US4643186 A, US4627436 A, US3903891 A, EP0352955 A2, DE1284528 B,

Forward Citations: WO9733522, WO9315654, WO9217121, WO13157011, WO13157011, WO11013118, WO03037202, USRE37651, USD654727, US9566456, US9549774, US9526558, US9402678, US9326786, US9320560, US9265556, US9265555, US9265554, US9265553, US9220557, US9149321, US9131977, US9107666, US9078655, US9028417, US8932279, US8915909, US8911452, US8858545, US8858544,

US8852178, US8845656, US8721634, US8696581, US8636729, US8627897, US8617151, US8529602, US8523852, US8523851, US8523850, US8506561, US8491578, US8435236, US8430870, US8425503, US8419724, US8414569, US8377052, US8372072, US8372066, US8366706, US8328791, US8321019, US8317760, US8292879, US8265110, US8192445, US8116850, US8083753, US8043285, US7998128, US7981120, US7963962, US7963961, US7918806, US7896889, US7867242, US7857820, US7837678, US7837677, US7833231, US7828809, US7828793, US7828790, US7815651, US7803163, US7799011, US7794460, US7794444, US7744606, US7704260, US7699854, US7658879, US7637915, US7636596, US7616989, US7559935, US7497863, US7422588, US7378048, US7366561, US7361173, US7255693, US7254946, US7235084, US7048756, US7048716, US6993394, US6985770, US6911017, US6872203, US6850804, US6780177, US6752812, US6485430, US6463317, US6451044, US6387052, US6355001, US6272370, US6267769, US6190379, US6131579, US6063081, US5964759, US5857976, US5830224, US5807395, US5807269, US5800493, US5746758, US5743900, US5720293, US5693080, US5665098, US5665062, US5643298, US5643297, US5611798, US5593406, US5578008, US5571153, US5553622, US5520684, US5480398, US5480397, US5470307, US5445635, US5425731, US5385148, US5342355, US5329085, US5098429, US2015032093, US2012071873, US2011034981, US2011022059, US2010268216, US2010268215, US2010268214, US2010268213, US2010268212, US2010268211, US2010268210, US2010268209, US2010268208, US2010268207, US2010268206, US2010268205, US2010228241, US2010211057, US2010063516, US2010057008, US2010030102, US2009125056, US2008319373, US2008167643, US2008108935, US2008091214, US2008082108, US2008039869, US2008021495, US2008009831, US2007250077, US2007250076, US2007250075, US2007239134, US2007213710, US2007208332, US2007191867, US2007096863, US2007055223, US2007050000, US2006235376, US2006195119, US2006192319, US2006167445, US2006127561, US2006122629, US2006122627, US2005215885, US2005192594, US2005159727, US2005119645, US2004267284, US2004167543, US2004167542, US2004122494, US2004054335, US2004044337, US2004044336, US2003226804, US2003055449, US2002193785, US2002156372, US2002115958, US2002065493, US2001053879, NL1004160, EP0834289, EP0637941,

Abstract:
Source: US5047025A A catheter is provided with a heated temperature self regulating tip for insertion in an artery to ablate an atherosclerotic plaque obstruction particularly in coronary and peripheral arteries. The heater is located at the distal end of the catheter and has a winding of fine wire around a ferro−magnetic core with the wire being connected via a transmission line to a high frequency constant alternating current source in the megahertz range. The catheter which may or may not employ a guide wire is inserted into and through the lumen of a vessel and guided usually with the assistance of fluoroscopy to the location of the stenosis. The heater is energized to ablate the plaque, the temperature not exceeding a desired temperature as determined by the Curie temperature of the ferromagnetic material.

0) US2001025170A – APPARATUS FOR EXTRACTING FLUIDS

165) Family number: 28102788 (US2001025170A) © PatBase

Title: APPARATUS FOR EXTRACTING FLUIDS

Priority: IT1996UD00161 19960816 WO1997EP04382 19970812

Family:

Publication number	Publication date	Application number	Application date
AT277650 E	20041015	AT19970937568T	19970812
AU199740147 A1	19980306	AU19970040147	19970812
DE69730981 D1	20041104	DE19976030981	19970812
DE69730981 T2	20051117	DE19976030981T	19970812
EP0935475 A1	19990818	EP19970937568	19970812
EP0935475 B1	20040929	EP19970937568	19970812
IT1288975 B1	19980925	IT1996UD00161	19960816
ITUD960161 A1	19980216	IT1996UD00161	19960816
JP2001504360 T2	20010403	JP19980510350T	19970812
JP3949171 B2	20070725	JP19980510350T	19970812
US2001025170 AA	20010927	US19990242422	19990420
US6491682 BB	20021210	US19990242422	19990420
WO9807460 A1	19980226	WO1997EP04382	19970812

Probable Assignee: CRB NEDERLAND BV

Assignee(s):(std)**:** CRB NEDERLAND B V ; CRB NEDERLAND BV ; PADERNI VALTER

Assignee(s): CRB NEDERLAND OLYMPIC PLAZA BUILDING FREDERIK ROES ; CRB NEDERLAND B V AMSTERDAM

Inventor(s):(std)**:** PADERNI VALTER ; VALTER PADERNI

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CZ DE DK EE ES FI FR GA GB GE GH GN GR HU IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SL SZ TJ TM TR TT UA UG US UZ VN YU ZW

International class (IPC 8–9): A61M1/00 A61M1/02 (Advanced/Invention); A61M1/00 (Advanced/Non–invention); A61M1/00 A61M1/02 (Core/Invention)

International class (IPC 1–7): A61M1/00 A61M1/02

CPC: A61B5/150038 A61B5/150045 A61M1/02 A61M2202/0413 A61M2210/1458 A61M2210/1466

European class: A61M1/02 K61M202/04E K61M210/14D6 K61M210/14D8

US class: 604/317 604/540 604/540P 604/541

Classification Explorer

Cited documents: WO9203180 A1, US5620008 A, US5599331 A, US5356373 A, US5156602 A, US5073164 A, US5053025 A, US4769017 A, US4228798 A, US3777757 A,

Forward Citations: WO14057353, WO10011204, WO06059958, WO04080304, US9421347, US8882699, US8771221, US8747887, US8540687, US8517973, US8486034, US8398577, US8394048, US8350116, US8246592, US8168848, US8157774, US8021348, US7988680, US7927318, US7910791, US7909790, US7896864, US7896856, US7867206, US7794438, US7763000, US7723560, US7678090, US7654968, US7534927, US7419483, US7338482, US7322971, US7276051, US7267671, US7264616, US7252659, US7244251, US7241287, US7195624, US6855135, US2009318844, US2009035845, US2008154173, US2006217685, US2006217684, US2005096582, US2004254432, US2004230179, US2004230132, US2004230118, US2004172512, JP4857280, JP2011206575, JP2008521545, GB2506889, EP1819377, EP1819377,

Abstract:
Source: US2001025170A An apparatus (1) for extracting fluids from a body tissue or organ having an aperture, including a seat (26) for positioning said tissue, and a pressure means (17,22) for applying pressure to said tissue while leaving said tissue aperture open for the exit of said fluids. The surface (23) of the supporting surface of the tissue is shaped as a funnel or cone, so that the apex is directed downward and the base (29) delimits the supporting surface of the tissue; the apex region being constituted by a hollow cylinder (22) in order to allow the passage of the umbilical cord of a placenta or of the vessel for the drainage of fluids from the placenta or organ or tissue; the supporting surface being provided so as to avoid producing obstructions or collapse of the surface vessels of the placenta or organ or tissue, so as to avoid hindering the flow of blood or fluid.

166) Family number: 28672937 (US2001025157A) © PatBase

Title: IMPLANTABLE DISPENSING DEVICE FOR CONTROLLABLY DISPENSING MEDICINAL FLUID

Priority: US19970919147 19970827 US19990387447 19990901 US19990390219 19990903 US20010760128 20010112 US20000489426 20000121 US20000645815 20000824 US20000645818 20000824 US20000607519 20000628 US20000607519 20000628 WO1998US17766 19980827 WO2000US23674 20000829 WO2001US01906 20010119 WO2001US20541 20010627

Family:

Publication number	Publication date	Application number	Application date
AU199889228 A1	19990316	AU19980089228	19980827
AU200069447 A5	20010410	AU20000069447	20000829
AU2001229663 AA	20010731	AU20010229663	20010119
AU2001271552 AA	20020408	AU20010271552	20010627
AU200129663 A5	20010731	AU20010029663	20010119
AU200171552 A5	20020408	AU20010071552D	20010627
BRPI9815587 A	20011113	BR1998PI15587	19980827
CA2302696 AA	20000228	CA19982302696	19980827
EP1023103 A1	20000802	EP19980941085	19980827
EP1023103 A4	20010207	EP19980941085	19980827
JP2001513409 T2	20010904	JP20000507426T	19980827
US2001025157 AA	20010927	US20010760128	20010112
US5961492 A	19991005	US19970919147	19970827
US6174300 BA	20010116	US19990387447	19990901
US6200293 BA	20010313	US20000489426	20000121
US6245042 BA	20010612	US19990390219	19990903
US6485462 BA	20021126	US20000645815	20000824
US6527744 BA	20030304	US20000607519	20000628
US6537250 BA	20030325	US20000645818	20000824
WO0117580 A2	20010315	WO2000US23674	20000829
WO0117580 A3	20020131	WO2000US23674	20000829
WO0152918 A2	20010726	WO2001US01906	20010119
WO0152918 A3	20020418	WO2001US01906	20010119
WO0152918 C2	20021031	WO2001US01906	20010119
WO0226282 A2	20020404	WO2001US20541	20010627
WO0226282 A3	20020725	WO2001US20541	20010627
WO9910040 A1	19990304	WO1998US17766	19980827

Probable Assignee: PESCADERO BEACH HOLDINGS CORP

Assignee(s):(std)**:** SCIENCE INC

Assignee(s): REVOCABLE TRUST OF EDWIN C GAGE C O MR JOHN K FLOTTMEIER TONKAWA ; THOMPSON THOMAS N ; ARLEEN M CARLSON ; ARLEEN M CARLSON 2000 BCG CLAT C O MR JOHN K FLOTT ; ARLEEN M CARLSON 2000 BCG CLAT C O MR JOHN K FLOTTMEIER TONKAWA ; ARLEEN M CARLSON 2000 MCN CLAT C O MR JOHN K FLOTT ; ARLEEN M CARLSON 2000 MCN CLAT C O MR JOHN K FLOTTMEIER TONKAWA ; BRATTAIN DONALD ; EVERS MICHAEL J ; FARLEY WILLIAM F ; OK ENA PARTNERSHIP V 8 BRUCE C LUECK PRESIDENT ; OKABENA PARTNERSHIP V ; HODDER WILLIAM A ; GROSSMAN INVESTMENTS ATTN LARRY WALLER ; REVOCABLE TRUST OF BARBARA C GAGE C O MR JOHN K FL ; MCGLYNN BURTON J ; LUECK BRUCE C ; POCKET A NOMINE PARTNERSHIP C O MR RANDALL J SUKOV ; REVOCABLE TRUST OF EDWIN C GAGE C O MR JOHN K FLOT ; PESCADERO BEACH HOLDINGS CORP ; FARLEY WILLIAM F D B A LIVINGSTON CAPITAL ; OKABENA PARTNERSHIP V 8 BRUCE C LUECK PRESIDENT ; KRIESELL

MARSHALL S ; POCKET A NOMINE PARTNERSHIP C O MR RANDALL J SUKOVICH BURR OAK GROUP INC ; REVOCABLE TRUST OF BARBARA C GAGE C O MR JOHN K FLOTTMEIER TONKAWA ; KRIESEL MARSHALL S ; WALLIN FAMILY FOUNDATION WINSTON R WALLIN ; TORGERSON PAUL M ; SIT INVESTMENT ASSOCIATES INC ; SIT INVESTMENT ASSOCIATES INC EUGENE C SIT

Inventor(s):(std): KRIESEL MARSHALL S ; KRIESELL MARSHALL S ; THOMPSON THOMAS N

Inventor(s): MARSHALL S KRIESEL ; THOMAS N THOMPSON

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; GOUDREAU GAGE DUBUC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN 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 NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

International class (IPC 8–9): A61K9/00 A61K9/22 A61M31/00 A61M37/00 A61M5/142 A61M5/145 (Advanced/Invention); A61K9/22 A61M37/00 A61M5/142 (Advanced/Non–invention); A61K9/00 A61K9/22 A61M31/00 A61M37/00 A61M5/145 (Core/Invention); A61M5/142 (Core/Non–invention); A61M (Subclass/Invention)

International class (IPC 1–7): A61K9/22 A61M37/00 A61M5/145

CPC: A61M5/145 A61K9/0004 A61K9/0068 A61M2205/3613 A61M2250/00 Y10S128/12 A61M5/14248 A61M5/14586 A61M31/002 A61M5/1452 A61M5/14276 A61M2205/36

European class: A61K9/00L4 A61M31/00D A61M5/142P10 A61M5/142P2 A61M5/145B A61M5/145D K61K9/00M18G K61M205/36 K61M205/36B K61M250/00 K61M5/142P2 K61M5/145

US class: 128/DIG.12 604/132 604/132P 604/153 604/890.1 604/891.1 604/892.1 604/892.100S 604/95.03

Classification Explorer

Cited documents: WO9640082 A2, WO9640032 A1, WO9602276 A2, USRE35068 E, US6048328 A, US6030442 A, US6001090 A, US5976109 A, US5961492 A, US5935593 A, US5876741 A, US5840338 A, US5840071 A, US5840069 A, US5830207 A, US5820589 A, US5800421 A, US5797898 A, US5779676 A, US5721382 A, US5693108 A, US5693018 A, US5651979 A, US5616127 A, US5603955 A, US5595706 A, US5575770 A, US5562915 A, US5545139 A, US5505706 A, US5443450 A, US5431919 A, US5403893 A, US5399162 A, US5368570 A, US5354278 A, US5277912 A, US5267980 A, US5263323 A, US5198222 A, US5176641 A, US5162116 A, US4978338 A, US4963141 A, US4959218 A, US4886499 A, US4732930 A, US4717800 A, US4692147 A, US4679561 A, US4416659 A, US4381780 A, US4350155 A, US4251506 A, US4221219 A, US4166107 A, US4140122 A, US3951147 A, US3934584 A, US3845770 A, US3731681 A, US3692027 A, US3527220 A, US35068 A,

Forward Citations: WO14028427, WO14028427, WO12098468, WO11028279, WO07010522, WO06123329, WO06123329, WO06123329, WO05058394, WO04110526, WO02068013, WO02068013, USD776265, USD776264, USD776263, USD776262, USD774640, USD767120, USD711527, USD693455, USD692997, USD692552, USD603502, US9656029, US9636070, US9623174, US9616171, US9603997, US9597450, US9592336, US9579461, US9555187, US9492624, US9399216, US9364606, US9333297, US9308124, US9283322, US9271866, US9265958, US9259582, US9240630, US9211381, US9205190, US9199035, US9173994, US9162024, US9119912, US9107995, US9089712, US9050407, US9011376, US8961469, US8945071, US8920387, US8920372, US8870742, US8845586, US8834454, US8821011, US8790596, US8764708, US8753587, US8747363, US8708961, US8685093, US8636691, US8609023, US8590387, US8512287, US8499793, US8487738, US8444604, US8444599, US8442611, US8403915, US8398612, US8389222, US8313462, US8298172, US8226605, US8226293, US8221439, US8211092, US8202267, US8152710, US8148377, US8147773, US8137619, US8126736, US8119639, US8105280, US8095197, US8062253, US7994197, US7942851, US7926514, US7910151, US7901397, US7896837, US7892221, US7892213, US7887505, US7879068, US7879019, US7857131, US7803141, US7776024, US7740611, US7678079, US7648677, US7614135, US7611504, US7604628, US7601162, US7544196, US7540864, US7537590, US7534620, US7534241, US7510551, US7497846, US7488316, US7481826, US7481763, US7473248, US7455667, US7439069, US7422905, US7417205, US7410616, US7399637, US7351240, US7326882, US7309607, US7307245, US7303549, US7276675, US7250037, US7238171, US7214221, US7144384, US7137964, US7128727,

US7115108, US7090658, US7070591, US7041941, US7031602, US7029455, US7018360, US6974587, US6960192, US6945128, US6830558, US6824528, US6768425, US6768085, US6758835, US6749587, US6740059, US6722782, US6692457, US6669669, US6660974, US6566631, US6537250, US6537249, US6527744, US6467953, US6416713, US6376805, US6174300, US6126637, US6063058, US2015057611, US2015017493, US2014065919, US2012267561, US2012247218, US2012046644, US2011275891, US2011171141, US2011168744, US2011137255, US2011126918, US2011106048, US2011098673, US2011088693, US2011054285, US2010331826, US2010284940, US2010191088, US2010191071, US2010137696, US2010100048, US2010099130, US2010081664, US2010081663, US2010042075, US2010030251, US2009234214, US2009204179, US2009203064, US2009192493, US2009155812, US2009131860, US2009118682, US2009093772, US2009069792, US2009030404, US2009005703, US2008287871, US2008287870, US2008287451, US2008257410, US2008234630, US2008221557, US2008215015, US2008206880, US2008168921, US2008161754, US2008115559, US2008115361, US2008086086, US2008047926, US2008041453, US2008029158, US2007299385, US2007253913, US2007215018, US2007203454, US2007167672, US2007161952, US2007156090, US2007130981, US2007015975, US2007000910, US2006291533, US2006288125, US2006269978, US2006253075, US2006217798, US2006190185, US2006184119, US2006178633, US2006178617, US2006171989, US2006161186, US2006100608, US2006057737, US2006041229, US2006024358, US2005277974, US2005267500, US2005267440, US2005255601, US2005238507, US2005233466, US2005233460, US2005196748, US2005182366, US2005171512, US2005149000, US2005143715, US2005135972, US2005124979, US2005096587, US2005077584, US2005070959, US2005070847, US2005070845, US2005065760, US2005065472, US2005065466, US2005055014, US2005038406, US2005021005, US2004240520, US2004220551, US2004170409, US2004153032, US2004143236, US2004138612, US2004127844, US2004121486, US2004116866, US2004106914, US2004092946, US2004064096, US2004064088, US2004054352, US2003212386, US2003187394, US2003097092, US2002147426, US2002110494, US2002034456, JP2015513352, JP2015186598, JP2015051304, JP2006527611, JP2005349192, GB2424374, GB2424374, EP2626094, EP2425820, EP2425819, EP2266643, EP2179754, EP1681041, EP1633414, EP1600120, EP1600119, EP1583585, EP1372763, CN104768591, CN102573949, CN102573949, AU2005201894, AU2004298287,

Abstract:
Source: US2001025157A A compact, small−volume, very low flow rate fluid dispensing device for precisely dispensing medicinal fluids into a patient at a very low, controlled flow rate over long periods of time. The dispensing device is readily implantable into the patient's body and includes a novel heat stimulatable polymer gel material which uniquely functions as an internal energy source for controllably expelling the medicinal fluids from the device.

0) US5377483A – PROCESS FOR SINGLE STAGE PREMIXED CONSTANT FUEL...

167) Family number: 15030824 (US5377483A) © PatBase

Title: PROCESS FOR SINGLE STAGE PREMIXED CONSTANT FUEL/AIR RATIO COMBUSTION

Priority:

US19930086833	19930707	US19930086883	19930707	US19940178848	19940107
US19940253567	19940603	US19940264844	19940705	US19940261256	19940614
US19960030313P	19961104	US19960021920P	19960717	US19960022241P	19960722
US19960032922P	19961206	US19950450948	19950523	US19950394037	19950224
US19950376360	19950123	US19940348829	19941129	US19970895456	19970716
US19970892397	19970715	US19970779350	19970106	US19970038943P	19970307
US19970001628	19971231	US19980033615	19980303	US19960654936	19960529

Family:

Publication number	Publication date	Application number	Application date
CN1065947 C	20010516	CN19951009188	19950705
CN1121557 A	19960501	CN19951009188	19950705
DE69412191 D1	19980910	DE19946012191	19940624
DE69412191 T2	19990121	DE19946012191T	19940624
DE69528862 D1	20030102	DE19956028862	19950105
EP0635681 A1	19950125	EP19940109802	19940624
EP0635681 B1	19980805	EP19940109802	19940624
EP0691512 A2	19960110	EP19950100116	19950105
EP0691512 A3	19970507	EP19950100116	19950105
EP0691512 B1	20021120	EP19950100116	19950105
EP0731316 A1	19960911	EP19960101611	19960205
EP0863369 A2	19980909	EP19980104023	19980306
EP0863369 A3	20000329	EP19980104023	19980306
JP11201454 A2	19990730	JP19980205225	19980721
JP11230548 A2	19990827	JP19980096539	19980306
JP3527779 B2	20040517	JP19940173420	19940630
JP7180838 A2	19950718	JP19940173420	19940630
JP8247462 A2	19960927	JP19950048976	19950213
JP8303256 A2	19961119	JP19960056958	19960220
KR100378566 B1	20030609	KR19950019514	19950704
KR19960004725 A	19960223	KR19950019514	19950704
US5377483 A	19950103	US19940178848	19940107
US5477671 A	19951226	US19940253567	19940603
US5481866 A	19960109	US19940261256	19940614
US5572862 A	19961112	US19940348829	19941129
US5613357 A	19970325	US19960654936	19960529
US5628182 A	19970513	US19950450948	19950523
US5638674 A	19970617	US19940264844	19940705
US5765363 A	19980616	US19970779350	19970106
US5924276 A	19990720	US19970892397	19970715
US5988589 A	19991123	US19970895456	19970716
US6220034 BA	20010424	US19980033615	19980303

Probable Assignee: HIJA HOLDING BV

Assignee(s):(std)**:** MOWILL ROLF JAN ; VERICOR POWER SYSTEMS LLC

Assignee(s): R JAN MOWILL ; AARU JIYAN MOUIRU ; HIJA HOLDING BV ; MOWILL R JAN ; MOWILL R JAN HENGELO NL

Inventor(s):(std)**:** R JAN MOWILL ; AARU JIYAN MOUIRU ; MOWILL R JAN

Inventor(s): MOWILL R JAN HENGELO NL

Designated states: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

International class (IPC 8–9): F01D17/14 F02C1/00 F02C3/05 F02C3/10 F02C3/14 F02C7/18 F02C7/22 F02C7/232 F02C9/18 F02C9/50 F16K1/22 F16K1/226 F23C99/00 F23L1/00 F23L13/02 F23N1/02 F23R3/10 F23R3/12 F23R3/26 F23R3/28 F23R3/30 F23R3/34 F23R3/42 F23R3/50 F23R3/52 F23R3/54 (Advanced/Invention);
F02C1/00 (Advanced/Non–invention);
F01D17/00 F02C7/16 F02C7/22 F02C9/00 F16K1/22 F16K1/226 F23L13/00 F23N1/02 F23R3/00 F23R3/02 F23R3/04 F23R3/28 F23R3/30 (Core/Invention)

International class (IPC 1–7): F01D25/12 F02C1/00 F02C3/05 F02C3/10 F02C3/14 F02C7/18 F02C7/22 F02C7/232 F02C9/26 F02C9/50 F23C11/00 F23L1/00 F23N1/02 F23R3/10 F23R3/12 F23R3/16 F23R3/26 F23R3/28 F23R3/30 F23R3/32 F23R3/34 F23R3/42 F23R3/50 F23R3/52 F23R3/54 F61K1/22 H04N1/409

CPC: F01D17/145 F02C9/18 F16K1/221 F16K1/2268 F23L13/02 F05D2250/322 F23R3/346 F23R3/42 F02C9/50 F23R3/26 F23R3/286 F23R3/50 F23R3/54

European class: F01D17/14B3 F02C9/18 F02C9/50 F16K1/226D F16K1/22B F23L13/02 F23R3/26 F23R3/28D F23R3/34D F23R3/42 F23R3/50 F23R3/54 R05B250/322

US class: 251/305 431/188 464/84 60/39.03 60/39.06 60/39.23 60/39.27 60/39.36 60/39.37 60/727 60/737 60/739 60/773 60/776 60/782 60/804 607/370

Classification Explorer

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Forward Citations: WO9961842, WO9947859, WO9906771, WO9846861, WO9823902, WO9738218, WO9738218, WO15150088, WO14134182, WO14134182, WO14026719, WO11033244, WO09127507, WO09121820, WO05085615, WO03006888, WO0212691, WO0198713, WO0171251, WO0140713, WO0123807, US9670841, US9669495, US9631815, US9631542, US9618261, US9617914, US9611756, US9599070, US9599021, US9587510, US9581081, US9574496, US9551491, US9512759, US9500369, US9476305, US9463417, US9416974, US9353682, US9297305, US9267437, US9222671, US9222592, US9217370, US9181813, US9181812, US9175856, US9140455, US9115586, US9097424, US9074530, US9033670, US9027321, US9010120, US8984857, US8950188, US8925323, US8919137, US8894359, US8887390, US8863525, US8789375, US8734545, US8702420, US8689562, US8689561, US8601820, US8549862, US8529646, US8365534, US8356486, US8347630, US8306373, US8281601, US8225611, US8171716, US8117846, US8079804, US7975487, US7950233, US7926279, US7870741, US7770396, US7762085, US7712314, US7707836, US7658075, US7654094, US7574865, US7540154, US7322198, US7162874, US7146813, US7093438, US7089745, US7065954, US7007478, US7003958, US6983600, US6971227, US6959550, US6931862, US6925809, US6923642, US6901760, US6868676, US6796130, US6793487, US6786047, US6745558, US6722133, US6718769, US6691515, US6625971, US6568188, US6543231, US6532742, US6460326, US6453673, US6442945, US6442939, US6438961, US6363724, US6357216, US6327860,

US6324828, US6308513, US6253538, US6250066, US6233915, US6220035, US6220034, US6178737, US6082093, US6070406, US5997595, US5971026, US5924276, US5816041, US5765363, US5669218, US5613357, US5558069, US2016326913, US2016245523, US2016053721, US2015338101, US2015198149, US2015184766, US2014305128, US2014053566, US2013232980, US2013081407, US2012210728, US2012185144, US2012137697, US2012023964, US2010313573, US2010300103, US2010290733, US2010236249, US2010223932, US2010154435, US2010068043, US2010050646, US2010003624, US2009211090, US2009056334, US2008115502, US2008072602, US2007277530, US2007254966, US2007227150, US2007151988, US2007125091, US2007107437, US2007033919, US2006154189, US2006130486, US2006107647, US2006101801, US2006059903, US2006021354, US2006000217, US2005144960, US2005079462, US2004206088, US2004139748, US2004134194, US2004112065, US2004088982, US2004011042, US2004011041, US2002104316, KR101400602, KR100825180, JP5542486, JP4559616, JP2010223222, JP2008185254, JP2008185253, JP2001221437, GB2352505, GB2352505, FR2950109, EP2321508, EP2321508, EP2113692, EP2110602, EP2107314, EP1865261, EP1363077, EP1363077, EP1363077, EP1319896, EP1260768, EP1036988, EP1036988, EP0891482, EP0878665, EP0877156, EP0731316, EP0691512, DE102005062079, DE102005062079, CN106164446, CN103528093, CN103244241, CN102549341, CN102549341, CN101737103,

Abstract:
Source: US5377483A An annular combustor system is disclosed in use with a radial turbine−type gas turbine engine module, the system having an annular housing defining a single stage combustor, an external fuel/air premixer system having a mixing chamber and a compressed air valve and a fuel valve both under the control of a controller, to provide a preselected lean fuel/air ratio mixture for introduction to the combustion zone of the annular housing. Compressed air conduits are used to channel a portion of the total compressed air flow to the premixer and the remainder to the dilution zone of the combustor, and a fuel conduit is used to deliver all of the fuel to the premixer. Convection cooling of the annular housing is accomplished using compressed air without diluting the fuel air ratio in the combustion zone. The premixer includes a venturi, a fuel nozzle for spraying fuel into the venturi inlet along the venturi axis, and a premixer housing integrating the compressed air valve, the venturi axis being aligned substantially tangentially to the annular housing axis to provide a swirling admission of the premixed fuel/air mixture to the combustion zone.

0) US2003164952A – METHOD AND APPARATUS FOR THREE–DIMENSIONAL OPTI...

168) Family number: 29763213 (US2003164952A) © PatBase

Title: METHOD AND APPARATUS FOR THREE–DIMENSIONAL OPTICAL SCANNING OF INTERIOR SURFACES

Priority: DK20000001258 20000825 DK20000001258 20000825 US20000244561P 20001031 WO2001DK00561 20010824 WO2001DK00564 20010824

Family:

Publication number	Publication date	Application number	Application date
AT431541 E	20090515	AT20010960205T	20010824
AU2001281761 AA	20020304	AU20010281761	20010824
AU2001283812 AA	20020304	AU20010283812	20010824
AU200181761 A5	20020304	AU20010081761	20010824
AU200183812 A5	20020304	AU20010083812	20010824
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EP1314000 B1	20090513	EP20010960205	20010824
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WO0216865 A2	20020228	WO2001DK00564	20010824
WO0216865 A3	20020620	WO2001DK00564	20010824
WO0216867 A1	20020228	WO2001DK00561	20010824

Probable Assignee: 3SHAPE APS

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Assignee(s): 3SHAPE A S

Inventor(s):(std)**:** CLAUSEN TAIS ; DEICHMANN NIKOLAJ ; FISKER RUNE ; BARTHE CHRISTOPHE VASILJEV ; VASILJEV BARTHE CHRISTOPHE

Inventor(s): CHRISTOPHE VASILJEV BARTHE ; NIKOLAJ DEICHMANN ; RUNE FISKER ; TAIS CLAUSEN

Agent(s): HOEIBERG A S; JACOBSON HOLMAN PLLC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 NE NL NO NZ PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

International class (IPC 8–9): A61B1/00 A61B1/04 A61B1/05 A61B1/227 G01B11/24 G01B11/25 G01B3/30 (Advanced/Invention); A61B5/107 (Advanced/Non–invention); A61B1/00 A61B1/04 A61B1/05 A61B1/227 G01B11/24 G01B3/30 (Core/Invention); A61B5/107 (Core/Non–invention)

International class (IPC 1–7): A61B1/05 G01B11/00 G01B11/24 G01B11/25 G01B3/30

CPC: G06T7/521 A61B5/4547 B33Y50/00 A61B1/05 A61B1/227 A61B5/1076 G01B3/30 G01B11/24 G01B11/25 B33Y80/00

European class: A61B1/05 A61B1/227 G01B11/24 G01B11/25 G01B3/30 G06T7/00R3 K61B5/107J K61B5/45R2B

US class: 356/603 600/103 600/117 600/129

Classification Explorer

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Abstract:
Source: US2003164952A The invention concerns the three−dimensional scanning of interior surfaces or cavities of limited dimensions or with restricted accessibility by providing a probe−shaped non−contact adpated to perform a scan 360 degrees around the axis of the probe and a method for scanning. The invention furthermore relates to the creation of high precision three−dimensional replicas of real objects using 3−D scan data obtainable with the scanner according to the invention. Furthermore, the invention relates to a specific embodiment for scanning the human ear and ear canal.

0) US2004210249A – EMBOLIZATION DEVICE AND A METHOD OF USING THE S...

169) Family number: 30584352 (US2004210249A) © PatBase

Title: EMBOLIZATION DEVICE AND A METHOD OF USING THE SAME

Priority: US20020293139 20021112 US20080340483 20081219 US20120569348 20120808 WO2003US36373 20031112 US20130058986 20131021 US20150657888 20150313 US20160990666 20160107

Family:

Publication number	Publication date	Application number	Application date
AU2003290869 AA	20040603	AU20030290869	20031112
AU2003290869 AH	20040603	AU20030290869	20031112
US2004210249 AA	20041021	US20020293139	20021112
US2009105748 AA	20090423	US20080340483	20081219
US2012303108 AA	20121129	US20120569348	20120808
US2014088690 AA	20140327	US20130058986	20131021
US2015182228 AA	20150702	US20150657888	20150313
US2016113658 AA	20160428	US20160990666	20160107
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WO04043241 A2	20040527	WO2003US36373	20031112
WO04043241 A3	20040624	WO2003US36373	20031112

Probable Assignee: FOGARTY THOMAS J

Assignee(s):(std)**:** DREWS MICHAEL J ; FOGARTY THOMAS J ; HOLMGREN NEIL ; HOLMGREN NEIL B ; HOLMGREN NEIL D ; MODESITT D BRUCE ; WILLIS DAVID B

Inventor(s):(std)**:** DREWS MICHAEL J ; FOGARTY THOMAS J ; HOLMGREN NEIL ; MODESITT D BRUCE ; WILLIS DAVID B ; HOLMGREN NEIL D ; HOLMGREN NEIL B

Inventor(s): NEIL HOLMGREN ; THOMAS J FOGARTY ; D BRUCE MODESITT ; DAVID B WILLIS ; MICHAEL J DREWS

Agent(s): LEVINE BAGADE HAN 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 KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ 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

International class (IPC 8–9): A61B17/12 A61B19/00 A61B90/00 A61F2/06 A61F2/07 A61F2/82 A61M29/00 (Advanced/Invention); A61B17/00 A61F2/06 A61F2/88 A61F2/90 (Advanced/Non–invention); A61B (Subclass/Invention)

International class (IPC 1–7): A61B A61M29/00

CPC: A61B17/12022 A61B17/1214 A61B17/12163 A61B2017/1205 A61F2/88 A61F2/90 A61F2002/065 A61F2002/077 A61B2017/00004 A61B17/12118 A61F2/07 A61B90/39 A61B2090/3966

European class: A61B17/12P A61B17/12P5B1S A61B17/12P7C A61B17/12P7S A61F2/07 K61B17/12P2 K61F2/06D K61F2/07D

US class: 604/107 606/191 606/194 606/200 606/200P 623/1.1 623/1.13 623/1.22 623/1.38

Classification Explorer

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Abstract:
Source: US2004210249A Non−expandable space−occupying devices for treating voids within the body are disclosed. The devices can have multiple non−expandable space−occupying elements connected to a flexible leader. Methods of making and using the devices are also disclosed.

0) US6179809B – DRUG DELIVERY CATHETER WITH TIP ALIGNMENT

170) Family number: 15743323 (US6179809B) © PatBase

Title: Drug delivery catheter with tip alignment

Priority: CA19982248025 19980922 CA19982248328 19980922 US19980080175 19980516 US19980156963 19980918 US19970059892P 19970924 US19970059892P 19970924 US19990314459 19990518 US19990326118 19990604 WO1999US10692 19990514 US20000697672 20001026 US19980156964 19980918

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Agent(s): GRIFFITH HACK; CASSAN MACLEAN

Designated states: AT AU BE CA CH CY DE DK ES FI FR GB GR IE IT JP LI LU MC NL PT SE

International class (IPC 8–9): A61B17/00 A61B17/34 A61B18/00 A61B18/20 A61M25/00 A61M25/01 A61M25/092 A61M31/00 A61M5/315 A61M5/32 (Advanced/Invention); A61B17/00 A61B18/00 A61B18/20 A61M25/00 A61M25/01 A61M31/00 A61M5/32 (Advanced/Non–invention);

A61B17/34 A61B18/00 A61B18/20 A61M25/00 A61M25/01 A61M25/092 A61M31/00 A61M5/315 (Core/Invention);
A61B17/00 A61M25/00 A61M25/01 A61M5/32 (Core/Non–invention)

International class (IPC 1–7): A61B17/02 A61B17/36 A61B18/18 A61M25/00 A61M25/01 A61M25/092 A61M31/00 A61M37/00 A61M5/00 A61M5/06

CPC: A61B8/06 A61B8/12 A61M25/0084 A61M25/0136 A61M25/0147 A61M2025/0089 A61B17/3478 A61B2017/00243 A61B2017/00247 A61B2018/00392 A61M5/31531 A61M5/31553 A61M5/31561 A61M5/31563 A61M5/31581 A61M5/31593 A61M5/3287 A61M2005/3125 A61M2025/0039 A61M25/0026 A61M25/0138 A61M25/0141 A61M25/0144

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Abstract:
Source: US6179809B A steerable drug delivery catheter and method of use, particularly adapted for percutaneous use. The distal end of the drug delivery catheter is deflectable. The catheter has a relative movement compensation mechanism for maintaining positioning between the distal end of the drug delivery catheter and the distal end of the drug delivery device therein.

0) US3004397A – METHOD AND APPARATUS FOR DEHYDRATION

171) Family number: 22454984 (US3004397A) © PatBase

Title: METHOD AND APPARATUS FOR DEHYDRATION

Priority: US19580730746 19580417

Family:

Publication number	Publication date	Application number	Application date
US3004397 A	19611017	US19580730746	19580417

Probable Assignee: UNION CARBIDE CORP

Assignee(s):(std)**:** UNION CARBIDE CORP

Inventor(s):(std)**:** WENZELBERGER ELWOOD P

International class (IPC 8–9)**:** A23L2/12 A23L3/40 (Advanced/Invention); A23L2/02 A23L3/40 (Core/Invention)

CPC: A23L2/12 A23L3/405

European class: A23L2/12 A23L3/40C

US class: 62/123 62/185 62/225 62/434 62/540 62/544 62/67

Classification Explorer

Cited documents: US2800001 A, US2764880 A, US2346469 A, US2140744 A,

Forward Citations: US3910997, US3395867, US3335575, US3323730, US3283522,

Abstract:
Source: US3004397A (Claim 1) 1. An apparatus for dehydrating a heat sensitive liquid composition of relatively low solids content comprising a plurality of interconnected refrigerating tanks for receiving said liquid composition, said tanks including elongated stationary freezing cylinders spacedly arranged therein, said cylinders comprising a hollow outer shell wall for the passage of refrigerant, a central passageway for refrigerant communicating with said hollow outer shell, a pipe line for connecting said central passageway of one of said freezing cylinders with a source of refrigerant, conduit means for connecting said freezing cylinders of each tank in series for the passage of refrigerant through said cylinders and to a discharge line connected to the last freezing cyiinder of said series, electrically operated valve means disposed in said pipe line for alternately admitting and restricting the passage of refrigerant to said freezing cylinders and through said hollow shell walls, means operable in response to temperature changes of the refrigerant in the freezing cylinders for actuating said valve, said last–mentioned means including a thermometer bulb disposed in said discharge line of the last freezing cylinder, means for introducing the liquid composition to be dehydrated into said refrigerating tanks, electrically operated valve means operatively connected to each tank for discharging the refrigerated mixture to a centrifuge, and means comprising a common header arranged above and discharging into said centrifuge for collecting said refrigerated mixture discharged from said plurality of tanks.

0) US6355051B – GUIDEWIRE FILTER DEVICE

172) Family number: 29674593 (US6355051B) © PatBase

Title: GUIDEWIRE FILTER DEVICE

Priority: US19980076971P 19980304 US20000601673 20001228 WO1999US05163 19990304

Family:

Publication number	Publication date	Application number	Application date
AU199929944 A1	19990920	AU19990029944	19990304
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US6355051 BA	20020312	US20000601673	20001228
WO9944510 A1	19990910	WO1999US05163	19990304

Probable Assignee: BIOGUIDE CONSULTING INC

Assignee(s):(std)**:** BIOGUIDE CONSULTING INC ; SISSKIND STEVEN J ; VU DAC

Inventor(s):(std)**:** SISSKIND STEVEN J ; VU DAC

Inventor(s): DAC VU ; STEVEN J SISSKIND

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW

International class (IPC 8–9)**:** A61B17/22 A61F2/01 (Advanced/Invention); A61B17/22 (Advanced/Non–invention); A61F2/01 (Core/Invention); A61B17/22 (Core/Non–invention)

International class (IPC 1–7)**:** A61B17/00 A61M29/00

CPC: A61F2230/0006 A61F2230/008 A61M25/09 A61M2025/09183 A61F2/01 A61B17/22 A61B2017/22042 A61F2/013 A61F2002/011 A61F2002/018

European class: A61F2/01 A61F2/01D K61B17/22 K61B17/22G3 K61F2/01B K61F2/01N K61M25/09 K61M25/09T1

US class: 606/200

Classification Explorer

Cited documents: US6277139 BA, US6277138 BA, US6190332 BA, US6179859 BA, US6171328 BA, US6168579 BA, US6165200 A, US6152946 A, US6142987 A, US6136016 A, US6059814 A, US6053932 A, US6022336 A, US5695519 A, US5100423 A, US5053008 A, US4723549 A, UA5695519,

Forward Citations: WO16049529, WO15123671, WO14165754, WO12065625, WO06091195, WO05000163, WO05000163, WO04026175, WO03088805, WO03084436, WO03059202, WO03059202, WO03030750, WO0230271, WO0230271, WO02071979, WO02071979, WO0150982, WO0149208, WO0145592, WO0145590, WO0145590, WO0139673, WO0110346, USRE43902, USRE43882, US9656046, US9649115, US9610181, US9572584, US9561122, US9561094, US9539081, US9526604, US9510929, US9498604, US9492265, US9492262, US9452070, US9445895, US9398946, US9393021, US9351716, US9320590, US9314249, US9308075, US9301831, US9301829, US9295568, US9295540, US9283066, US9259305, US9168121, US9157174, US9138307, US9125659, US9119706, US9114001, US9107734, US9095343, US9089668, US9089404, US9089341, US9050205, US9005236, US9005138, US8979870, US8974445, US8968350, US8961555, US8945169, US8920458, US8864793, US8852226, US8845711, US8845677, US8845583, US8845552, US8840641, US8834519, US8821528, US8821478, US8814925, US8801746, US8795328, US8795315, US8728114, US8715318, US8715313, US8696700, US8696699, US8696698, US8690911, US8679149, US8663273, US8657849, US8647359, US8636764, US8632562, US8628564, US8623067, US8617234, US8617201, US8603131, US8591541, US8591540, US8579957, US8556926, US8545447, US8535371, US8535344, US8535343, US8523897, US8500774, US8486104, US8480629, US8469990, US8468678, US8460336, US8444669, US8444665, US8430901, US8419748, US8403912, US8398701, US8394119, US8388644, US8382786, US8377093, US8377092, US8366736, US8337519,

US8328842, US8323309, US8308753, US8303618, US8292829, US8287564, US8282668, US8277470, US8267956, US8262690, US8262689, US8252018, US8252017, US8241319, US8241315, US8236024, US8226678, US8221448, US8221446, US8221434, US8216270, US8216269, US8216209, US8211140, US8187298, US8182508, US8177791, US8162972, US8152833, US8152831, US8142442, US8137377, US8137291, US8133190, US8123779, US8123777, US8123776, US8118827, US8114115, US8109962, US8100936, US8080032, US8075497, US8070769, US8062326, US8062258, US8057504, US8052716, US8052712, US8043329, US8038696, US8029530, US8016854, US8007510, US8002790, US7998163, US7992565, US7987994, US7981134, US7976562, US7976560, US7972359, US7972356, US7972352, US7959647, US7959646, US7959584, US7931666, US7927349, US7918820, US7909847, US7901427, US7901426, US7901367, US7896861, US7892251, US7887561, US7879065, US7879063, US7875050, US7867273, US7867247, US7850708, US7846176, US7846175, US7842066, US7842064, US7842063, US7837704, US7837701, US7837676, US7833242, US7819893, US7815660, US7811238, US7799051, US7798980, US7794472, US7785344, US7785342, US7785275, US7780697, US7780694, US7780611, US7776062, US7771452, US7766934, US7762403, US7758565, US7749246, US7740644, US7735493, US7731693, US7722641, US7722638, US7713282, US7708770, US7704266, US7699866, US7699865, US7695465, US7691123, US7678131, US7678129, US7662166, US7662165, US7655016, US7651520, US7651514, US7625389, US7621943, US7621904, US7618434, US7618433, US7597704, US7585309, US7572272, US7563272, US7537601, US7537600, US7537598, US7517352, US7510565, US7491216, US7491215, US7481823, US7479153, US7478465, US7476236, US7473265, US7459080, US7452496, US7425215, US7410491, US7371249, US7338510, US7331973, US7326226, US7326224, US7320698, US7320697, US7306619, US7306618, US7252675, US7244267, US7241304, US7235061, US7226464, US7217255, US7204464, US7189229, US7174636, US7172614, US7169165, US7163550, US7163549, US7153320, US7152605, US7144408, US7137991, US7128073, US7118539, US7115138, US7097652, US7094249, US7066946, US7060082, US7052500, US7044958, US7044134, US7037320, US7029440, US7014647, US7001407, US7001406, US6997939, US6997938, US6994092, US6991642, US6974469, US6969396, US6964673, US6964672, US6962598, US6960370, US6951570, US6945977, US6936059, US6932830, US6918921, US6887257, US6887256, US6878291, US6866677, US6840950, US6837898, US6818006, US6814740, US6808524, US6793666, US6755847, US6752819, US6726702, US6726701, US6702830, US6689151, US6663652, US6663651, US6660014, US6652505, US6645224, US6620182, US6620148, US6616681, US6616679, US6579302, US6565591, US6562058, US6544280, US6544279, US6537295, US6530939, US6527791, US6511497, US6454775, US6432122, US6383206, US6371971, US6371970, US6371969, US6361546, US6346116, US6165200, US2016100928, US2016022464, US2014236220, US2014025083, US2013204291, US2011208233, US2011196410, US2011160764, US2011125182, US2011118632, US2011046716, US2011022079, US2010324588, US2010324587, US2010324586, US2010324585, US2010312270, US2010312268, US2010228285, US2010228279, US2010152711, US2010130892, US2010063535, US2009259295, US2009182371, US2009149881, US2009143814, US2009112249, US2009099596, US2009099593, US2008302368, US2008221609, US2008188884, US2008167677, US2008091229, US2008082155, US2008039891, US2007282369, US2007250107, US2007244505, US2007244504, US2007239200, US2007233181, US2007233180, US2007233179, US2007233175, US2007225790, US2007225788, US2007213685, US2007208373, US2007173883, US2007162069, US2007123931, US2007106322, US2007100372, US2007088381, US2007060946, US2007016246, US2007016245, US2007005096, US2006293704, US2006287670, US2006259069, US2006206201, US2006190024, US2006184194, US2006129182, US2006122645, US2006122644, US2006089663, US2006079930, US2006074446, US2006025804, US2006004403, US2005283185, US2005283184, US2005267568, US2005228437, US2005165442, US2005126979, US2005113862, US2005101988, US2005096692, US2005085848, US2005080447, US2005055046, US2005015111, US2004220612, US2004199203, US2004176757, US2004167566, US2004164030, US2004127934, US2004073198, US2004054362, US2004039411, US2004034385, US2003225435, US2003212429, US2003187474, US2003144688, US2003144687, US2003139763, US2003135162, US2003130684, US2003032977, US2003009189, US2003004541, US2003004540, US2002107541, GB2503013, EP2636423, EP2636423, EP1623680, EP1557137, EP1557137, EP1489994, EP1277447, EP1250107, EP1247501, EP1084685, CN104523351, CN103200984, CN103200984, AU2010364209, AU2002238569,

Abstract:
Source: US6355051B A guidewire filter (10) has an elongate hollow tube (12) with a proximal end, a distal end, an inside, an outside surface, and a lumen formed therethrough. The hollow tube (12) has a plurality of longitudinal slots (14) forming a plurality of longitudinal rib portions (16) near the distal region of the hollow tube (12). An actuating wire (24) with a proximal end, and a distal end is provided. Filter material (20) is positioned within the

lumen in the hollow tube (12). An activation handle (38) on the proximal end of the device (10) is provided for pulling the actuating wire (24) relative to the hollow tube (12).

0) US2004122366A – DRUG DELIVERY APPARATUS

173) Family number: 30670045 (US2004122366A) © PatBase

Title: DRUG DELIVERY APPARATUS

Priority: US20020328491 20021223 US20070818232 20070613 WO2003US41086 20031222

Family:

Publication number	Publication date	Application number	Application date
AU2003299849 AA	20040722	AU20030299849	20031222
AU2003299849 AH	20040722	AU20030299849	20031222
BRPI0317676 A	20051122	BR2003PI17676	20031222
EP1596896 A2	20051123	EP20030800123	20031222
EP1596896 A4	20060920	EP20030800123	20031222
IN02757DN2005 A	20070119	IN2005DN02757	20050621
IN08273DN2007 A	20071130	IN2007DN08273	20071025
IN219557 B	20080627	IN2005DN02757	20050621
IN261216 B	20140620	IN2007DN08273	20071025
JP2006514850 T2	20060518	JP20040563997T	20031222
JP4970730 B2	20120711	JP20040563997	20031222
US2004122366 AA	20040624	US20020328491	20021223
US2008033359 AA	20080207	US20070818232	20070613
US7270648 BB	20070918	US20020328491	20021223
US8394061 BB	20130312	US20070818232	20070613
WO04058327 A2	20040715	WO2003US41086	20031222
WO04058327 A3	20060105	WO2003US41086	20031222

Probable Assignee: KAZEMZADEH FARHAD

Assignee(s):(std)**:** KAZEMZADEH FARHAD

Assignee(s): FARHAD KAZEMZADEH

Inventor(s):(std)**:** FARHAD KAZEMZADEH ; KAZEMZADEH FARHAD

Agent(s): NIKOLAI AND MERSEREAU PA; NIKOLAI AND MERSEREAU P A; THOMAS J

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 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 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 UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): A61M37/00 A61M39/00 A61M5/145 A61M5/148 A61M5/168 A61M5/20 (Advanced/Invention); A61M5/14 A61M5/168 (Advanced/Non–invention); A61M5/145 A61M5/20 (Core/Invention); A61M5/14 A61M5/168 (Core/Non–invention)

International class (IPC 1–7): A61M A61M1/00 A61M37/00 A61M5/145

CPC: A61M5/141 A61M5/1454 A61M5/1456 A61M5/16804 A61M5/16881 A61M2005/14506

European class: A61M5/145B A61M5/145B4 K61M5/145A2 K61M5/145B10 K61M5/14C K61M5/168A K61M5/168F1

US class: 604/135 604/135P

Classification Explorer

Cited documents: WO9728835 A1, WO8810129 A1, WO0197901 A2, US6605066 BA, US5529463 A, US4921487 A, US4863429 A, US4857056 A, US4180067 A, US3685697 A, US2295849 A, US2295489 A, US2004034276 AA, US2001056259 AA, US2001021830 AA, JP5245197 A2, JP2002526192 T2, EP0344895 A2,

Forward Citations:

WO16040990, WO15167201, WO14001311, WO12012758, WO12012758, WO11079278, WO09021020, WO07053779, WO07053779, US9642932, US9629780, US9526830, US9504508, US9480804, US9320846, US9180245, US9173996, US9107668, US8715238, US8708376, US8641669, US8585377, US8574196, US8545445, US8529513, US8496646, US8491570, US8414765, US8414563, US8414522, US8412310, US8343132, US8343099, US8267892, US8262616, US8223028, US8182444, US8113244, US8088105, US8066672, US8034026, US8016789, US8002753, US7713232, US7635351, US2012022451, US2011301538, US2011301534, US2011028908, US2010324531, US2009247985, US2009218535, US2008294110, US2008294096, US2008147007, US2008108955, US2008108954, US2007282294, US2007119508, US2007112326, US2007106208, US2007017512, US2007010789, US2006278112, US2006270987, US2005215850, US2003217986, KR101524678, JP2016025924, JP2015231532, JP2013525061, EP2776089, EP2776089, EP2579918, EP2579918, EP2515968, EP2515968, EP2314259, EP1782852, EP1704886, EP1704885, EP1704884, EP1704883, CN103037932, CN103037932, AU2008283868,

Abstract:
Source: US2004122366A A drug to be infused into a patient is contained in a syringe or vial having a displaceable plunger for ejecting the drug out through an injection port into an administration set. Motion of the plunger of the drug delivery syringe/vial is controlled by a driver syringe having a piston or plunger for ejecting either a compressible or an incompressible fluid through a flow resistance element. Motive power for the piston of the drive syringe is provided by a constant load spring. A suitable linkage is provided for coupling the piston of the drive syringe to the plunger of the drug delivery syringe. Several types of flow rate control elements for use with the driver syringe are disclosed.

0) US5078727A – CATHETERS

174) Family number: 3333693 (US5078727A) © PatBase

Title: CATHETERS

Priority: GB19890016158 19890714

Family:

Publication number	Publication date	Application number	Application date
AU199057795 A1	19910117	AU19900057795	19900625
AU627326 B2	19920820	AU19900057795	19900625
DE69003042 D1	19931007	DE19906003042	19900615
DE69003042 T2	19931216	DE19906003042T	19900615
DK0408198 T3	19931101	DK19900306543T	19900615
EP0408198 A1	19910116	EP19900306543	19900615
EP0408198 B1	19930901	EP19900306543	19900615
ES2044445 T3	19940101	ES19900306543T	19900615
GB2233562 A1	19910116	GB19900013592	19900618
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GB8916158 A0	19890831	GB19890016158	19890714
GB9013592 A0	19900808	GB19900013592	19900618
JP3057464 A2	19910312	JP19900184372	19900713
US5078727 A	19920107	US19900542081	19900622

Probable Assignee: SMITHS INDUSTRIES PLC

Assignee(s):(std)**:** CARPENTER PETER ; HANNAM PETER H ; SMITHS IND PLC ; SMITHS INDUSTRIES PLC

Assignee(s): SMITHS INDUSTRIES PLC LONDON GB ; SMITHS INDUSTRIES PUBLIC LIMITED COMPANY ; SMITHS IND PUBLIC CO LTD

Inventor(s):(std)**:** HANNAM PETER H ; HANNAM PETER HENRY ; CARPENTER PETER ; PIITAA HENRII HANNAMU ; PIITAA KAAPENTAA

Inventor(s): CARPENTER PETER SWANBOURNE PERTH AU ; HANNAM PETER HENRY WORTHING WEST SUSSEX GB ; PETER CARPENTER ; PETER HENRY HANNAM

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD

Designated states: DE DK ES FR IT SE

International class (IPC 8–9): A61M25/00 A61M29/02 (Advanced/Invention); A61M25/00 A61M29/02 (Core/Invention)

International class (IPC 1–7): A61M25/00 A61M25/10 A61M29/02

CPC: A61M25/1036 A61M25/104 A61M2025/0004

European class: A61M25/10G3 A61M25/10P K61M25/00C

US class: 604/103.09 604/913 606/194

Classification Explorer

Cited documents: WO8700442 A1, US4943278 A, US4820349 A, US4813934 A, US4798586 A, US4702252 A, US4323071 A, US4276874 A, GB2172205 A1, GB2130093 A1,

Forward Citations: WO9722378, WO9423781, WO11080778, WO06127929, WO06127929, US9640850, US9278190, US9259559, US9211391, US9119737, US8911450, US8900215, US8864704, US8814899, US8753351, US8747353, US8728110, US8685074, US8636717, US8597240, US8353868, US8323242, US8313601, US8292874, US8236221, US8221485, US8221351, US8216498, US8206372, US8192477, US8105275, US8092634, US8066666, US8012123, US8002744, US8002741, US7985236, US7985235, US7942849, US7927443, US7914487, US7815627, US7815625, US7794448, US7785439, US7785318, US7780629, US7744586, US7744574, US7682335, US7658723, US7635347, US7628769, US7625353,

US7544201, US7491213, US7485108, US7468051, US7252650, US7201763, US7115183, US7115183, US6960187, US6702802, US6659977, US6623504, US6589274, US6517515, US6475209, US6471673, US6464683, US6319228, US6315757, US6264630, US6165166, US6156254, US6115716, US6113579, US6048338, US6027477, US5964778, US5961765, US5906606, US5891110, US5820613, US5531689, US5522834, US5470322, US5466222, US5460416, US5454789, US5425712, US5334148, US5217434, US5129887, US2012273120, US2011172678, US2011098690, US2011082489, US2011054513, US2010318029, US2010243135, US2010241154, US2010234802, US2010217189, US2010185145, US2010179581, US2010094210, US2009294031, US2009247947, US2009171277, US2009149700, US2009137954, US2009043254, US2008255511, US2008188805, US2008183132, US2008177227, US2007213760, US2007118169, US2007112407, US2007093865, US2007059466, US2007005009, US2006217682, US2006135979, US2006085024, US2006015064, US2005154414, US2005123702, US2004109964, US2004092866, US2004082965, US2003088265, US2003078613, EP0853937, EP0823262, EP0778037, EP0724891, EP0634188, DE102008012744, CN102686262,

Abstract:
Source: US5078727A A balloon dilatation catheter has a flexible, hollow inner shaft and an outer, braided shaft with a balloon that is inflatable by fluid introduced between the outer and inner shaft. The inner shaft is fixed relative to the outer shaft at both ends such that, when the balloon is inflated, the outer shaft shortens and the excess length of the inner shaft is accommodated by the inner shaft bending into a coil within the balloon.

0) US5336570A – HYDROGEN POWERED ELECTRICITY GENERATING PLANAR ...

175) Family number: 11695632 (US5336570A) © PatBase

Title: HYDROGEN POWERED ELECTRICITY GENERATING PLANAR MEMBER

Priority: US19920929706 19920821 US19930015411 19930209 WO1995US09947 19950804 US19940286131 19940804 US19940285945 19940804

Family:

Publication number	Publication date	Application number	Application date
EP0804814 A2	19971105	EP19950929394	19950804
US5336570 A	19940809	US19930015411	19930209
US5458989 A	19951017	US19940285945	19940804
US5509942 A	19960423	US19940286131	19940804
WO9405051 A1	19940303	WO1993US07916	19930823
WO9604690 A1	19960215	WO1995US09947	19950804

Probable Assignee: CLEVELAND E DODGE JR

Assignee(s):(std)**:** DODGE CLEVELAND E ; DODGE JR CLEVELAND E

Assignee(s): CLEVELAND E DODGE JR ; CLEVELAND E DODGE JR 2005 REVOCABLE TRUST

Inventor(s):(std)**:** DODGE CLEVELAND E ; DODGE JR CLEVELAND E

Designated states: AT BE CA CH DE DK ES FR GB GR IE IT JP LU MC NL PT SE

International class (IPC 8–9)**:** H01M8/02 H01M8/10 H01M8/24 (Advanced/Invention); H01M8/02 H01M8/10 H01M8/24 (Core/Invention)

International class (IPC 1–7)**:** B05D5/12 H01M6/00 H01M8/00 H01M8/10

CPC: Y10T29/4911 H01M8/1072 H01M2250/20 Y02T90/32 H01M8/0271 H01M8/1004 H01M8/1023 H01M8/1039 H01M8/241 H01M8/247 Y02P70/56 H01M2300/0082 H01M8/1007 Y02E60/521

European class: H01M8/02D H01M8/10B H01M8/10E2B2 H01M8/10E2D H01M8/10E2P2 H01M8/24B2 H01M8/24D2 T01M250/20 T01M300/00B8C T01M8/10B2 T01M8/10E2B2 T01M8/10E2D Y02E60/52B Y02T90/32

US class: 29/623.2 427/115 429/31 429/33 429/35 429/465 429/468 429/492 429/494 429/497 429/505 429/508 429/513 429/517 429/523

Classification Explorer

Cited documents: US5171646 A, US5094928 A, US4975342 A, US4920015 A, US4824742 A, US4756718 A, US4477541 A, US4175165 A,

Forward Citations: WO9960642, WO9816963, WO9747052, WO9701194, WO9619015, WO9619015, WO9618217, WO9522179, WO9504382, WO15199740, WO12082747, WO11118188, WO10136214, WO08041922, WO07124391, WO07124391, WO07045652, WO07037351, WO07029879, WO06075119, WO06075119, WO05122303, WO05093889, WO05045974, WO03103079, WO03103079, WO03096470, WO03061041, WO03061041, WO03038935, WO03036748, WO03036748, WO03003490, WO03003490, WO0233770, WO0215308, WO0215308, WO02080298, WO02080298, WO0062363, WO0054358, USRE39556, US9583772, US9515334, US9299971, US9293778, US9276295, US9276271, US9225045, US9136552, US9083053, US9054387, US9005802, US8999538, US8927172, US8920998, US8900774, US8832914, US8796888, US8728676, US8709674, US8685557, US8658327, US8636828, US8608814, US8603660, US8597846, US8568915, US8563188, US8530069, US8410747, US8404395, US8389180, US8367271, US8309271, US8283079, US8279578, US8277997, US8262752, US8257466, US8247135, US8202668, US8202667, US8202657, US8178250, US8157900, US8133626, US8100211, US8097384, US8061651, US8057575, US8048576, US8043736, US8034512, US8026020, US8021446, US8003274, US7985510, US7972420, US7939211, US7939051, US7887958, US7846569, US7842428, US7837819, US7829213, US7819955, US7811690, US7803491, US7789941, US7771882, US7740966, US7736772, US7736596, US7727655, US7666386, US7659025, US7655332, US7625015, US7622212, US7601302, US7547483, US7544437, US7534513, US7527888, US7485381, US7482403, US7474075, US7470483, US7452622, US7445863, US7425382,

US7416802, US7410531, US7368195, US7326480, US7316794, US7303834, US7258946, US7232626, US7208241, US7195832, US7195663, US7150932, US7147677, US7101421, US7078361, US7052530, US7045243, US7008708, US7005208, US6994927, US6979507, US6972160, US6960402, US6893767, US6893762, US6887605, US6884745, US6878474, US6869713, US6869707, US6858341, US6846588, US6824907, US6824593, US6818335, US6811908, US6783741, US6767389, US6743536, US6733909, US6723156, US6719831, US6667128, US6632270, US6596057, US6562505, US6547858, US6537352, US6506511, US6495277, US6468682, US6465118, US6451464, US6428918, US6419728, US6387556, US6383670, US6376116, US6376113, US6300000, US6296961, US6265476, US6242120, US6221117, US6218035, US6159533, US6153327, US6152995, US6131851, US6096449, US6093502, US6080501, US6063517, US6060188, US6057051, US6040075, US6030718, US6001502, US6001500, US5997594, US5993987, US5861221, US5861137, US5789091, US5531956, US2016156047, US2014127599, US2013084514, US2012141903, US2012009490, US2011236785, US2011232491, US2011212352, US2011135975, US2011116985, US2011056758, US2011033765, US2010330442, US2010315759, US2010255398, US2010252421, US2010233586, US2010183904, US2010021789, US2010009228, US2010005881, US2009286130, US2009208836, US2009208802, US2009208791, US2009206194, US2009202874, US2009202873, US2009155642, US2009133259, US2009111015, US2009065127, US2009015009, US2008308975, US2008248366, US2008222954, US2008210088, US2008176118, US2008124611, US2008107930, US2008063916, US2008035252, US2008032170, US2007275275, US2007274904, US2007266631, US2007264546, US2007251387, US2007207375, US2007184312, US2007178340, US2007166589, US2007160887, US2007122667, US2007092785, US2007092767, US2007090786, US2007059576, US2006280662, US2006257313, US2006246337, US2006246331, US2006216562, US2006213369, US2006159977, US2006154120, US2006141138, US2006134473, US2006127734, US2006093890, US2006090397, US2006073368, US2006051643, US2006024540, US2005266285, US2005266284, US2005249993, US2005244687, US2005214624, US2005214613, US2005188843, US2005181248, US2005164052, US2005142404, US2005130007, US2005123817, US2005121500, US2005112436, US2005106431, US2005095490, US2005069752, US2005067471, US2005048346, US2005048343, US2005014054, US2004253495, US2004244591, US2004201122, US2004157092, US2004142203, US2004137312, US2004131920, US2004115503, US2004097640, US2004096727, US2004096718, US2004083890, US2004076868, US2004062978, US2004062977, US2004028990, US2004028581, US2004023101, US2004001988, US2004001986, US2003235745, US2003219639, US2003190514, US2003159354, US2003134171, US2003113601, US2003104266, US2003049502, US2003017374, US2002177025, US2002127447, US2002119353, US2002110721, US2002071983, US2002051902, US2002028367, US2002022167, TWI360908, KR100964432, JP4485201, JP2011204609, JP2005507150, JP2005072011, JP2001283892, GB2352557, GB2352557, FR2892237, FR2880994, FR2826781, ES2247928, EP1776729, EP1603179, EP1603179, EP1596457, EP1596457, EP1515387, EP1515387, EP1515386, EP1515386, EP1511106, EP1440489, EP1429410, EP1316120, EP1183748, EP1166382, EP1134830, EP1134830, EP1078409, EP0932914, EP0800709, EP0788172, DE19909930, DE19909930, DE10040282, CN102906919, CN102906919,

Abstract:
Source: US5336570A Disclosed is a hydrogen fuel cell which resists swelling of a proton−exchange membrane electrolyte by clamping the membrane between two catalytic electrodes in a tubular or frusto−conical configuration. Improved breathability and hydrogen sealing are obtained. The electrodes can be bonded to the solid electrolyte by employing an electrolytic proton−transporting polymer in the liquid−phase. Including finely divided platinum in the liquid phase provides an advantageous means of incorporating catalyst in the cell. Also disclosed is a blind tube porous carbon electrode assembly which can be manufactured by a method including coating a self−supporting electrode with a liquid−phase polymeric electrolyte material, for example, perfuorosulfonic acid, and curing it.

176) Family number: 13862872 (WO9900060A1) © PatBase

Title: ELECTROSURGICAL CATHETER FOR RESOLVING OBSTRUCTIONS BY RADIO FREQUENCY ABLATION

Priority: US19970882953 19970626

Family:

Publication number	Publication date	Application number	Application date
WO9900060 A1	19990107	WO1998US13382	19980626

Probable Assignee: ADVANCED CORONARY INTERVENTION

Assignee(s):(std)**:** ADVANCED CORONARY INTERVENTION

Inventor(s):(std)**:** JANSSEN W MICHAEL ; MCGARRY MICHAEL C ; STOCKMOE SCOTT

Inventor(s): JANSSEN W

Designated states: AT BE CA CH CY DE DK ES FI FR GB GR IE IT JP LU MC NL PT SE

International class (IPC 8–9): A61B18/14 (Advanced/Invention)

International class (IPC 1–7): A61B17/22

CPC: A61B18/1492 A61B2018/00214 A61B2018/1497

European class: A61B18/14V K61B18/00B14 K61B18/14Y

Classification Explorer

Cited documents: US5556405 A, US5429136 A,

Forward Citations: WO17087195, WO16075544, WO16075536, WO11094111, WO05041748, WO0247569, WO02056783, US9668811, US9655677, US9649156, US9649148, US9636174, US9636173, US9629679, US9610006, US9597142, US9597018, US9592386, US9586025, US9579149, US9579030, US9572623, US9554848, US9545290, US9526556, US9510901, US9510777, US9510773, US9492635, US9486355, US9486270, US9474563, US9463066, US9463062, US9456869, US9452017, US9452008, US9439726, US9439715, US9439708, US9433760, US9427255, US9420955, US9408661, US9402992, US9402684, US9399115, US9375268, US9364284, US9364280, US9358365, US9345900, US9345538, US9345530, US9339332, US9333031, US9327123, US9327122, US9327100, US9326817, US9326816, US9326751, US9320561, US9314644, US9314630, US9314620, US9308044, US9308043, US9297845, US9289255, US9277957, US9277955, US9265969, US9254169, US9241752, US9233241, US9226772, US9220561, US9220558, US9220526, US9192790, US9192766, US9192435, US9186213, US9186211, US9186210, US9186209, US9179974, US9174050, US9173696, US9162046, US9155590, US9155589, US9138292, US9138281, US9131978, US9125667, US9125666, US9125661, US9119632, US9119600, US9108040, US9095321, US9089350, US9084610, US9084609, US9079000, US9078662, US9072902, US9072527, US9066726, US9066720, US9066713, US9060761, US9060755, US9060754, US9050106, US9049987, US9044575, US9037259, US9028485, US9028483, US9028472, US9023037, US9023034, US9017317, US9011431, US9005198, US8998894, US8989859, US8986294, US8986199, US8983595, US8974451, US8961550, US8958871, US8956352, US8951296, US8951251, US8948865, US8945107, US8939970, US8939897, US8934978, US8920414, US8920369, US8906035, US8888792, US8888773, US8880186, US8880185, US8870863, US8852163, US8840601, US8818514, US8805545, US8805466, US8784463, US8777942, US8774922, US8774913, US8771260, US8768470, US8747400, US8740896, US8728138, US8728137, US8728075, US8721637, US8708953, US8696659, US8679003, US8663216, US8652133, US8608652, US8579897, US8568410, US8551096, US8529563, US8506564, US8496653, US8496574, US8480689, US8480657, US8449538, US8425505, US8409200, US8403926, US8401667, US8396548, US8364237, US8361112, US8361066, US8355799, US8353487, US8337394, US8323279, US8323241, US8317786, US8295902, US8262680, US8262655, US8262563, US8252057, US8241204, US8211125, US8012153, US7819863, US7742795, US7507236, US7445618, US7435247, US7429260, US7232438, US7137981, US7097644, US7047068, US6918906, US6896674, US6047700, JP2007504910, GB2477353,

GB2477353, EP3045136, EP2992850, EP2954868, EP2623060, EP2623060, EP2455035, EP2455035, EP2452648, EP2076198, EP1884214, EP1667595, EP1667595, EP1402837, CN104812322, AU2003246061,

Abstract:
A method and device (10) resolve occlusive deposits in a tubular passage of a subject by radio frequency ablation. The device (10) has a distal end (20) which is inserted within, along the lumen of a tubular body member, and may be manipulated therethrough to a desired position where the device will be operated. The device (10) includes an elongated flexible hollow tube (12) having a distal end, a proximal end, and a diameter smaller than the diameter of the tubular body member into which the device is being inserted. A number of electrodes (14) adjacent the distal end of the device, capability for selectively supplying radio frequency electrical current to at least one of said electrodes (14), and capability such as an inflatable balloon (30) for radially positioning the electrodes (14) with respect to the tube. Another embodiment includes electrodes (14) at varying radial positions so that at least one of such electrodes (14) will be capable of ablating material at varying positions within the lumen.

0) US2008194939A – MINIMALLY INVASIVE SURGICAL APPARTUS AND METHOD...

177) Family number: 31314777 (US2008194939A) © PatBase

Title: MINIMALLY INVASIVE SURGICAL APPARTUS AND METHODS

Priority: EP20050782767 20050908 GB20040019954 20040908 WO2005GB03480 20050908 US20080662128 20080103 US20130141913 20131227

Family:

Publication number	Publication date	Application number	Application date
DE602005048206 D1	20160218	DE200560048206T	20050908
EP1796549 A1	20070620	EP20050782767	20050908
EP1796549 B1	20151230	EP20050782767	20050908
GB200419954 A0	20041013	GB20040019954	20040908
US2008194939 AA	20080814	US20050662128	20050908
US2014236274 AA	20140821	US20130141913	20131227
WO06027599 A1	20060316	WO2005GB03480	20050908
WO06027599 C1	20060504	WO2005GB03480	20050908

Probable Assignee: LIMFLOW GMBH

Assignee(s):(std)**:** ADVOTEK MEDICAL DEVICES LTD ; DICKINSON ROBERT JULIAN ; JAIN AJAY KUMAR ; LIMFLOW GMBH ; PACEY ANDREW ROBERT ; ROTHMAN MARTIN TERRY ; SITE SPECIFIC THERAPIES LTD

Inventor(s):(std)**:** DICKINSON ROBERT JULIAN ; JAIN AJAY KUMAR ; PACEY ANDREW ROBERT ; ROTHMAN MARTIN TERRY

Agent(s): HERNANDEZ YORCK DIPL ING; CREASE DEVANAND JOHN; HOWARD AND HOWARD ATTORNEYS PC

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 KP KR KZ LC LI LK LR LS LT LU LV 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

International class (IPC 8–9): A61B17/00 A61B17/11 A61B17/22 A61B17/34 A61B19/00 A61F2/966 (Advanced/Invention); A61B17/00 A61B19/00 (Advanced/Non–invention); A61B17/00 A61B17/03 A61B17/22 A61B17/34 (Core/Invention); A61B17/00 A61B19/00 (Core/Non–invention)

CPC: A61F2/966 A61B17/2202 A61B17/3478 A61B2017/00252 A61B2017/1107 A61B2017/1139 A61B2017/22082 A61B34/20 A61B2034/2051 A61B2034/2063 A61B2090/3782 A61B2090/3786 A61B2090/3788 A61B2090/3929 A61B19/5244 A61B17/11

European class: A61B17/11 A61B17/22B2D A61B17/34Q K61B17/00E1C2B K61B17/11B K61B17/11Q K61B17/22S K61B19/52H12B4 K61B19/52H14B K61B19/52H14B4 K61B19/52H14B6 K61B19/54F2

US class: 600/3 600/3S 600/407 600/407P 604/164.12 604/164.120S 606/10 606/10S 606/170 606/170S 623/1.11

Classification Explorer

Cited documents: WO9713463 A1, WO0149187 A1, WO0045886 A2, US8109947 BB, US8090430 BB, US7966057 BB, US7955343 BB, US7892247 BB, US7892246 BB, US7749239 BB, US7736327 BB, US7729738 BB, US7722664 BB, US7722663 BA, US7722658 BB, US7704222 BB, US7670329 BB, US7655033 BB, US7648517 BB, US7387636 BB, US7374567 BB, US7357794 BB, US7351247 BB, US7316655 BB, US7214241 BB, US7191015 BB, US7179270 BB, US7159592 BA, US7094230 BB, US7083588 BA, US7059330 BA, US7056325 BA, US7025773 BB, US6929009 BB, US6926690 BB, US6881199 BB, US6863684 BB, US6858037 BB, US6746464 BA, US6746426 BA, US6726677 BA, US6719781 BA, US6711429 BA, US6709444 BA, US6685716 BA, US6685648 BB, US6610087 BA, US6602241 BB, US6589164 BA, US6579311 BA, US6569145 BA, US6561998 BA, US6544230 BA, US6517558 BB, US6511491 BB, US6511458 BB, US6508824 BA, US6475226 BA, US6432127 BA, US6379319 BA, US6375615 BA, US6283951 BA, US6280388 BA, US625116 A, US6241744 BA,

US6231587 BA, US6231546 BA, US6221049 BA, US6217527 BA, US6206912 BA, US6190353 BA, US6186972 BA, US6099542 A, US6071292 A, US6068638 A, US6036702 A, US6015405 A, US5938697 A, US5897495 A, US5797920 A, US5655548 A, US5443497 A, US5397339 A, US4757821 A, US4249539 A, US2012065652 AA, US2011160751 AA, US2011152994 AA, US2011054589 AA, US2011009740 AA, US2010174357 AA, US2010113919 AA, US2010094391 AA, US2010087732 AA, US2010069820 AA, US2010016709 AA, US2008009936 AA, US2007203572 AA, US2007185567 AA, US2007106147 AA, US2007055344 AA, US2006116625 AA, US2005038501 AA, US2004158143 AA, US2004097990 AA, US2002089262 AA, US2002068869 AA,

Forward Citations: WO16141281, WO16009337, US9545263, US9532803, US9326792, US9314329, US9108018, US8632585, US2013035758, GB2536362, GB2536362,

Abstract:
Source: US2008194939A Apparutus and methods are described for performing percutancous catheter−based interventional surgery. The apparatus comprises first and second devices that are located in adjacent body cavities, such as adjacent blood vessels, the first device being capable of transmitting a directional signal that can be received by the second device. The direction of the signal is correlated with the facility to direct therapy, such that improved accuracy in therapy placement is thereby achieved. Methods for treating patients utilising the means and apparatus are also provided.

0) US2008262518A – IMPLANTABLE DEVICE

178) Family number: 41679405 (US2008262518A) © PatBase

Title: IMPLANTABLE DEVICE

Priority: DE200610047494 20061005 DE200610050385 20061020 US20060853128P 20061020 US20070973267 20071004 EP20070818732 20071005 EP20130000018 20071005 WO2007EP08656 20071005

Family:

Publication number	Publication date	Application number	Application date
CN101460102 A	20090617	CN200780020740	20071005
CN101460102 B	20120627	CN200780020740	20071005
DE102006050385 A1	20080410	DE200610050385	20061020
DE502007014636 D1	20160428	DE200750014636T	20071005
DE502007014962 D1	20160901	DE200750014962T	20071005
EP2053976 A2	20090506	EP20070818732	20071005
EP2053976 B1	20160316	EP20070818732	20071005
EP2623039 A1	20130807	EP20130000018	20071005
EP2623039 B1	20160720	EP20130000018	20071005
ES2575879 T3	20160701	ES20070818732T	20071005
ES2599217 T3	20170131	ES20130000018T	20071005
IL197936 A0	20091224	IL20070197936	20071005
IL197936 A1	20170131	IL20070197936	20071005
IN01366KN2009 A	20090529	IN2009KN01366	20090413
IN274565 B	20160729	IN2009KN01366	20090413
JP2010505481 T2	20100225	JP20090530809T	20071005
JP5244112 B2	20130724	JP20090530809T	20071005
KR101489519 B1	20150203	KR20097006956	20071005
KR20090085027 A	20090806	KR20097006956	20071005
RU2009115370 A	20101110	RU20090115370	20071005
RU2452432 C2	20120610	RU20090115370	20071005
TR201608043 T4	20160721	TR20160008043T	20071005
TR201614426 T4	20161021	TR20160014426T	20071005
US2008262518 AA	20081023	US20070973267	20071004
US9179899 BB	20151110	US20070973267	20071004
WO08040555 A2	20080410	WO2007EP08656	20071005
WO08040555 A3	20080918	WO2007EP08656	20071005
WO08040555 A8	20090528	WO2007EP08656	20071005

Probable Assignee: PFM MEDICAL AG

Assignee(s):(std)**:** FREUDENTHAL FRANZ ; PFM MEDICAL AG ; PFM MEDIKAL AG ; PFM PROD F DIE MED AG ; PFM PROD FUER DIE MED AG ; PFM PRODUKTE FUER DIE MEDIZIN ; PFM PRUDUKTE FUER DIE MEDIZIN ; PFM PRODUKTE FUR DIE MEDIZIN A ; PFM PRUD FUER DIE MED AG ; PFM PRUD F DIE MED AG

Assignee(s): PFM PRODUKTE FUR DIE MEDIZIN AKTIENGESELLSCHAFT ; PFM PRODUKTE FUER DIE MEDIZIN AKTIENGESELLSCHAFT ; PFM PRUDUKTE FUR DIE MEDIZIN AG ; PFM PRODUKTE FUR DIE MEDIZIN AG ; PFM PRODUKTE FUER DIE MEDIZIN AG ; PFM PRUDUKTE F DIE MEDIZIN AG ; PFM PRUDUKTE FUER DIE MEDIZIN AKTIENGESELLSCHAFT ; PFM PRODUKTE F DIE MEDIZIN ; PFM PRODUKTE F DIE MEDIZIN AG

Inventor(s):(std)**:** FRANZ FREUDENTHAL ; FREUDENTHAL FRANZ ; FROJDENTAL FRANTS

Inventor(s): FROJDENTAL' FRANTS ; FREUDENTHAL FRANZ OBRAJES

Agent(s):

RING AND WEISBRODT PATENTANWALTSGESELLSCHAFT MBH; POLYPATENT; RING AND WEISBRODT; TORNER ELISABET; REINHOLD COHN AND PARTNERS; ISILAY SIMSEK CENGIZ TUNALI HILMI CAD NO 64 10 KAVAKLIDERE ANKARA; ISILAY SIMSEK CENGIZ MUSTAFA KEMAL MAH 2120 CADDE NO 6 4 CANKAYA ANKARA; ISILAY SIMSEK CENGIZ; DONN K HARMS PATENT AND TRADEMARK LAW CENTER; GROSSMAN TUCKER PERREAULT AND PFLEGER PLLC; LUEDCKE JOACHIM M

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 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 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 ZA ZM ZW

International class (IPC 8–9): A61B A61B17/00 A61B17/08 A61B17/12 A61B19/00 A61B90/00 A61F2/01 A61F2/02 A61F2/04 A61F2/06 A61F2/82 A61F2/86 A61F2/90 A61L31/02 A61L31/08 A61M29/00 (Advanced/Invention); A61B17/12 A61B19/00 A61B90/00 (Advanced/Non–invention); A61B17/00 A61B17/03 A61B17/12 A61B19/00 A61F2/01 A61F2/02 A61F2/04 A61F2/06 (Core/Invention); A61B17/12 A61B19/00 (Core/Non–invention); A61B (Subclass/Invention)

International class (IPC 1–7): A61B17/00 A61B19/00 A61F2/06

CPC: A61B17/0057 A61B17/12022 A61B17/12031 A61B17/12036 A61B17/12109 A61B17/12113 A61B17/12118 A61B17/12122 A61B17/12172 A61B2017/00575 A61B2017/00592 A61B2017/00597 A61B2017/00606 A61B2017/00615 A61B2017/00628 A61B2017/00867 A61B2017/00893 A61B2017/12054 A61L31/08 A61B90/39

European class: A61B17/00P A61B17/12P A61B17/12P1C A61B17/12P1P A61B17/12P5B A61B17/12P5B1 A61B17/12P5B1S A61B17/12P5H A61B17/12P7W1 A61L31/08 K61B17/00P5 K61B17/00P5E K61B17/00P5F K61B17/00P5H K61B17/00P5K K61B17/00P5T K61B17/00S12 K61B17/00S21 K61B17/12P2 K61B19/54

US class: 1/1 606/151 606/151P 623/11.11 623/11.110S

Classification Explorer

Cited documents: WO9912478 A1, WO9728774 A1, WO9728744 A1, WO9601591 A1, WO9527448 A1, WO9313712 A1, WO07054117 A1, US8100938 BB, US7842053 BB, US7757692 BB, US7727189 BB, US7665466 BB, US6797083 BB, US6719781 BA, US6599308 BB, US6506204 BB, US6468303 BA, US6425924 BA, US6334864 BA, US6149665 A, US6123715 A, US6077281 A, US5976174 A, US5846261 A, US5733294 A, US5725552 A, US5683411 A, US5433727 A, US5171259 A, US5108420 A, US3786816 A, US2008065146 AA, US2007112380 AA, US2007043391 AA, US2006247680 AA, US2006235463 AA, US2006224183 AA, US2006058872 AA, US2005228434 AA, US2005137698 AA, US2005070992 AA, US2004098095 AA, US2004073155 AA, US2003191495 AA, KR20010084836 A, JP2005261951 A2, JP2005230427 A2, JP2002248105 A2, EP0923912 A2, EP0474887 A1, DE69529338 T2, DE4222291 C1, DE4222291 A1, DE2822603 A1, DE10338702 B3, DE10302447 A1, DE10000137 A1, CA2627196 AA,

Forward Citations: WO16087504, WO15052172, WO15011239, WO14194241, WO14185230, WO14113632, WO13076276, WO13060855, WO13034764, WO12163882, WO12095314, WO11147784, WO11027003, WO10139771, WO10139771, WO09140195, US9650730, US9636094, US9597088, US9585644, US9510811, US9474517, US9468430, US9451939, US9381041, US9381006, US9364259, US9271736, US9220487, US9216082, US9173659, US9138208, US9017377, US9005240, US8979941, US8956389, US8940015, US8864809, US8840655, US8821529, US8777967, US8529597, US8454632, US8425539, US8343232, US8167894, US8052741, US2014309685, US2014094861, US2014012303, US2013178886, US2012053602, US2011054512, US2010324652, US2010324538, US2010241218, US2010069930, US2009082803, JP5719302, JP5696140, JP2015142790, JP2015061608, JP2013526951, JP2012529310, JP2012508070, JP2012501793, JP2011519709, EP3106108, EP2856946, EP2829301, EP2609873, EP2596754, EP2567663, EP2398395, EP2387951, EP2292147, EP2273942, EP2273942, EP2074953, DE102012107465, DE102011102955, DE102011102933, DE102011102039, DE102009060770, DE102009024390, CN105455922, CN105263422, CN104771200, CN104771200, CN104224246, CN104224246, CN104159526, CN104039241, CN103124524, CN103124524, CN102802539, CN102802539, CN102665572, CN102665572, AU2008261188,

Abstract:
Source: US2008262518A In an implantable device (1) for use in the human and/or animal body for closure or partial closure of defect openings (2), cavities, organ passages etc or for providing a defined communicating opening between walls, organs, cavities etc comprising a carrier structure (17) which in a primary form has a large ratio of length to transverse extent along an axis (x) and in a secondary form has a smaller ratio of length to transverse extent along the axis (x), wherein the carrier structure (17) has a proximal and a distal portion (10, 11) and is formed in the manner of a weft and/or mesh and/or layered cloth and/or gauze, at least the one portion (11) in the secondary form has a first part (14) facing outwardly away from the other portion (10) or towards same and a second part (13) which deploys first from the primary form into the secondary form and which is folded back in a direction towards the other portion (10) or inwardly on to the first part (14).

0) US3613668A – SPHYGMOMANOMETER WITH BUILT–IN TIMER

179) Family number: 150967 (US3613668A) © PatBase

Title: SPHYGMOMANOMETER WITH BUILT–IN TIMER

Priority: CH19680004943 19680401

Family:

Publication number	Publication date	Application number	Application date
CH476488 A	19690815	CH19680004943	19680401
DE1912386 A1	19691030	DE19691912386	19690312
FR1602916 A	19710222		19681128
GB1262955 A	19720209	GB19690016533	19690328
US3613668 A	19711019	US19690811940	19690401

Probable Assignee: PATINVEST PATENT UND INVEST AG

Assignee(s):(std)**:** BECK KG WALTER ; BECK WALTER KG ; PATINVEST PATENT U INVEST AG ; PATINVEST PATENT UND INVEST AG ; WALTER BECK KG KONTROLL UND FE

Assignee(s): PATINVEST PATENT UND INVESTMENT AG ; WALTER BECK KG ; WALTER BECK KG KONTROLL UND FERNMESSGERATE ; PATINVEST PATENT U INVESTMENT AG

Inventor(s):(std)**:** BECK CHARLOTTE ; CHARLOTTE BECK ; FRITZ KUMMER ; KARL ROLL ; KUMMER FRITZ ; ROLL KARL

International class (IPC 8–9): A61B5/0235 A61B5/024 (Advanced/Invention); A61B5/022 A61B5/024 (Core/Invention)

International class (IPC 1–7): A61B5/02

CPC: A61B5/0235 A61B5/024

European class: A61B5/0235 A61B5/024

US class: 128/205G 600/498 D24/166

Classification Explorer

Cited documents: US3482564 A, US3254671 A, US2934061 A, US2630796 A, US2560237 A, US2524470 A, DE230942 A, DD230942,

Forward Citations: US9126116, US9108108, US5741229, US3954099, US3906939, US3896791, US2008119745,

Abstract:
Source: GB1262955A 1,262,955. Measuring blood pressure. WALTER BECK K.G. KONTROLL–UND FERNMESSGERATE. 28 March, 1969 [1 April, 1968], No. 16533/69. Heading A5K. A blood pressure measuring instrument comprises a cylindrical handle 1 containing an air pump 6 connected through a non–return valve 17 to an occluding cuff 25 and an air release valve 62 actuated by an operating ring 71, a pressure responsive chamber 32 in communication with cuff 25, which, through a lever system 35, 40, 42 actuates a pointer 41 moving over a scale plate 54. The handle 1 comprises a core member 3, having a recess 4, on which there is fitted a hood 5 of elastic material incorporating integrally the pump 6 and a non–return inlet valve 12 therefor. The edge 7 of the hood is sealed by a cover ring 10 against the top portion 8 of core member 3. A middle part 26 is attached by a bayonet fixing 27, 28 to the top portion 8 against a sealing ring 29 to define a chamber 19, which connects with non–return valve 17 and a bore 21 in communication with the occluding cuff 25, the chamber 19 having a central bore 30 into which the pressure responsive chamber 32 is screwed. An air escape hole 61 extends radially from bore 30 into a radial bore 60 of larger diameter containing a push rod 64. Operating ring 71 has an inwardly projecting rib 73 which provides an eccentric surface (75, Fig. 5) which acts against the curved head (74, Fig. 4) of the push rod to force a cylindrical sealing part 62 of elastic material over the end of hole 61 and into a channel (76, Fig. 3) in the end wall of bore 30. In the operation of the device, the handle 1 is gripped by the user and the bellows operated with the fingers to inflate the cuff 25. The operating ring 71 is then turned until the sealing part 62 detaches from channel 76 and allows air to bleed off slowly. The chamber 32 carries on a threaded pin 33 a ring 34 which actuates arm 36 of an angle lever 35, whose other arm 38 has a hook 39 engaging a shackle of a chain 40, the other end of which is fixed to a shaft 42 carrying pointer 41 and a spiral return spring 43. The sensistivity of the instrument may be adjusted by moving ring 34 along the axis of pin 33, and by moving the angle lever mounting pin 53, which is mounted in a bow 51 attached to a leaf spring (48, Fig. 6), whose position may be altered by turning a screw (50, Fig. 6). An alternative arrangement is shown on Fig. 7. The instrument may include a means of indicating periods of time (91, Fig. 2) and a mechanism (Fig. 2) enabling it to be wound up by turning operating ring 71, as described in Specification 1,262,954.

180) Family number: 30062678 (WO03096932A1) © PatBase

Title: MEDICAL DEVICE FOR THE TREATMENT OF A BODY VESSEL OR ANOTHER TUBULAR STRUCTURE IN THE BODY

Priority: WO2002EP05515 20020517

Family:

Publication number	Publication date	Application number	Application date
AU2002367970 AA	20031202	AU20020367970	20020517
WO03096932 A1	20031127	WO2002EP05515	20020517

Probable Assignee: BIONETHOS HOLDING GMBH

Assignee(s):(std)**:** BADER AUGUSTINUS ; BIONETHOS HOLDING GMBH ; SIMMOTEIT ROBERT

Inventor(s):(std)**:** BADER AUGUSTINUS ; SIMMOTEIT ROBERT

Inventor(s): AUGUSTINUS BADER ; ROBERT SIMMOTEIT

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

International class (IPC 8–9): A61F2/04 A61F2/06 A61F2/24 A61L27/38 (Advanced/Invention); A61F2/30 (Advanced/Non–invention)

International class (IPC 1–7): A61F2/04 A61F2/06 A61M31/00

CPC: A61F2/04 A61F2/06 A61F2/2412 A61F2/2415 A61F2/2475 A61F2002/30583 A61F2210/0085 A61F2250/0003 A61L27/3882

European class: A61F2/04 A61F2/06 A61F2/24D A61F2/24D2 A61F2/24V A61L27/38D10 K61F2/30A3W18C K61F210/00P K61F250/00F

Classification Explorer

Cited documents: US6203551 BA, US5985307 A, US5397307 A, US4911717 A, US4755171 A, EP0467516 A1, DE3627487 A1, DE3422639 A1,

Forward Citations: WO15086037, WO14201452, WO08070244, WO08070244, WO08024621, WO07101159, WO06133294, US9603708, US9572661, US9545305, US9510941, US9468746, US9445897, US9308360, US9168134, US8840664, US8728156, US8608770, US8568477, US8556881, US8500799, US8430925, US8403981, US8377118, US8376865, US8308796, US8147541, US8142497, US8142492, US8133213, US8128692, US8012201, US7935144, US7785341, US7658762, US7641686, US7556645, US7534261, EP2425801, EP1988852, EP1988852, EP1887983, CN105473107,

Abstract:
The invention relates to a medical device for treating body vessels, particularly blood vessels or other tubular structures in the body, especially the urethra, trachea, and esophagus. Said medical device comprises a first, proximal sealing unit (3) and a second, distal sealing unit (4). The first sealing unit (3) is offset from the second sealing unit (4) in the longitudinal direction of the body vessel (13) when being inserted therein so as to create a separate treatment space (10). A duct which is disposed between the first sealing unit (3) and the second sealing unit (4) connects the space upstream from the first sealing unit (3) to the space downstream from the second sealing unit (4) in order to allow fluid to flow in the body vessel while the device is in use. The wall of the duct can be configured in a flexible manner such that the surrounding conditions can be transferred to the treatment space. A vessel dressing can be created or holes in the vessel wall can be repaired by introducing natural cells or a mixture of natural cells and a natural and/or artificial polymer, particularly fibrin or collagen, into the treatment space. The inside of the duct of the inventive device can be provided with form elements or a valve–type arrangement such that the device can replace degenerated venous valves as an implant. The inventive device can also be provided with hollow form elements which are connected to the treatment space such that a matrix is formed for creating venous valves made of natural cells when natural cells or a mixture of a polymer and natural cells is/are introduced into the treatment space.

0) US2787839A – COMBINATION PIVOTAL ELECTRODE VACUUM TUBE AND M...

181) Family number: 22716107 (US2787839A) © PatBase

Title: COMBINATION PIVOTAL ELECTRODE VACUUM TUBE AND MAGNETIC ACTUATING DEVICES

Priority: US19510225841 19510511

Family:

Publication number	Publication date	Application number	Application date
US2787839 A	19570409	US19510225841	19510511

Probable Assignee: TAYLOR EDWARD E

Assignee(s):(std)**:** TAYLOR EDWARD E

Inventor(s):(std)**:** TAYLOR EDWARD E

International class (IPC 8–9)**:** H01J21/08 (Advanced/Invention); H01J21/00 (Core/Invention)

CPC: H01J21/08

European class: H01J21/08

US class: 177/208 177/211 177/234 313/146 33/309 33/312 374/142 374/6 73/152.53 73/733

Classification Explorer

Cited documents: US2533686 A, US2439942 A, US2399420 A, US2362616 A, US2142857 A, US2109690 A, US2090178 A, US2078672 A, US2068775 A, US1928969 A, US1864214 A, US1467318 A, US1360235 A, US1318196 A, US127570 A,

Forward Citations: US4006530, US3264876,

Abstract:
Source: US2787839A (Claim 1) What is claimed is: l. In a device operable responsive to the magnitude of inclination of a well bore, the combination of, a housing, cable means connected thereto for lowering said housing into the well horc, with the longitudinal axis thereof to extend along the axis of said well bore, a vacuum tube mounted in said housing and comprising, an evacuated, non–magnetic, insulated envelope, a.

0) US2017120001A – COMPLIANT CATHETER ADAPTER HAVING SELF–SLITTING...

182) Family number: 65565257 (US2017120001A) © PatBase

Title: COMPLIANT CATHETER ADAPTER HAVING SELF–SLITTING NEEDLE

Priority: US20150247596P 20151028 US20150247599P 20151028 US20150247617P 20151028 US20150247607P 20151028 US20150247621P 20151028 US20150247624P 20151028 US20160286223 20161005 US20150247626P 20151028 US20160286198 20161005 US20160286212 20161005 US20160286168 20161005 US20160286188 20161005 US20160286162 20161005 US20160286159 20161005 US20160296383P 20160217 US20160296385P 20160217 US20160286281 20161005 US20160286287 20161005 US20160286292 20161005

Family:

Publication number	Publication date	Application number	Application date
CN106620939 A	20170510	CN201610958203	20161028
CN106620940 A	20170510	CN201610958775	20161028
CN106620941 A	20170510	CN201610958946	20161028
CN106620942 A	20170510	CN201610958947	20161028
CN106620943 A	20170510	CN201610959362	20161028
CN106620945 A	20170510	CN201610970332	20161028
CN106620946 A	20170510	CN201610970390	20161028
CN106620947 A	20170510	CN201610970709	20161028
CN106620995 A	20170510	CN201610970443	20161028
US2017120001 AA	20170504	US20160286223	20161005
US2017120011 AA	20170504	US20160286168	20161005
US2017120012 AA	20170504	US20160286198	20161005
US2017120013 AA	20170504	US20160286212	20161005
US2017120014 AA	20170504	US20160286281	20161005
US2017120015 AA	20170504	US20160286287	20161005
US2017120016 AA	20170504	US20160286292	20161005
US2017120017 AA	20170504	US20160286188	20161005
WO17074675 A1	20170504	WO2016US55837	20161006
WO17074676 A1	20170504	WO2016US55839	20161006
WO17074677 A1	20170504	WO2016US55844	20161006
WO17074678 A1	20170504	WO2016US55846	20161006
WO17074679 A1	20170504	WO2016US55854	20161006
WO17074680 A1	20170504	WO2016US55855	20161006
WO17074682 A1	20170504	WO2016US55859	20161006
WO17074683 A1	20170504	WO2016US55860	20161006
WO17074684 A1	20170504	WO2016US55861	20161006
WO17074685 A2	20170504	WO2016US55863	20161006
WO17074685 A3	20170608	WO2016US55863	20161006

Probable Assignee: BECTON DICKINSON CO

Assignee(s):(std)**:** BECTON DICKINSON CO

Assignee(s): BECTON DICKINSON AND CO

Inventor(s):(std)**:** BIHLMAIER BRYAN FRED ; BORNHOFT STEPHEN T ; DAVIS ERIC ; CHRISTENSEN COREY ; BURKHOLZ JONATHAN KARL ; CHIA NEVILLE ; ELLIS CARL ; HYER DANIEL KIRK ; MAUL CHRISTOPHER ; KUMAR JITHENDRA ; HARDING WESTON F ; LIU HUIBIN ; HU OLIVIA ; GARRISON MICHAEL ; WANG BIN ; PETERSON BART D ; SONDEREGGER RALPH L ; ZHANG YOUNG ; WARNER TYLER ; SINGH SIDDHARTH ; MITCHELL NATHAN

Agent(s): METCALF CRAIG 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 DJ 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 KW KZ LA LC 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

International class (IPC 8–9): A61M25/00 A61M25/01 A61M25/02 A61M25/06 A61M39/00 A61M39/04 A61M39/06 A61M39/12 A61M39/22 A61M5/14 A61M5/158 A61M5/32 F16L35/00 (Advanced/Invention); A61M25/00 A61M25/02 (Advanced/Non–invention)

CPC: A61M25/01 A61M25/0043 A61M25/0625 A61M25/065 A61M25/0054 A61M2025/0059 A61M39/22 A61M39/04 A61M5/3202 A61M5/158 A61M25/0102 A61M2005/1586 A61M2205/586 A61M2210/12 A61M2025/0098 F16L35/00 A61M5/3286 A61M5/3291 A61M39/06 A61M2039/062 A61M25/0618 A61M2025/0008 A61M2205/6063 A61M5/329 A61M39/0606 A61M2039/064 A61M2025/0266 A61M25/0606 A61M5/1626 A61M25/0631 A61M25/0113 A61M2005/1585 A61M25/0097 A61M25/0637 A61M25/0693 A61M39/12 A61M39/0613

Classification Explorer

Cited documents: WO9944654 A1, WO9842393 A1, WO9745151 A1, WO8807388 A1, WO16007442 A1, WO15133281 A1, WO11109542 A1, WO11055287 A2, WO10111285 A1, WO09055949 A1, WO07050788 A2, WO06067660 A1, WO04087247 A2, WO04032995 A2, WO02096495 A2, WO0147592 A1, WO0012171 A1, US9399120 BB, US8496623 BB, US6117108 A, US5676656 A, US5531720 A, US5330449 A, US5059186 A, US4805933 A, US4365630 A, US4311137 A, US4269186 A, US201662314262 P, US2014364809 AA, US201414295953, US2013237925 AA, US2013218082 AA, US2012053523 AA, US2012016307 AA, US2005277879 AA, US2004102735 AA, US1844023 A, JP2014108112 A2, GB2508466 A1, EP2327434 A1, EP2044970 A1, EP1944049 A1, EP0993839 A1, EP0732120 A1, DE821629 A, DE3314640 A1, DE29712676 U1, DE2104745 A1, CN203852671 U, CN102716541 A, CN102440822 A, CN101879341 A,

Abstract:
Source: US2017120001A A self–slitting open lumen cannula may be used with catheter adapters to reduce manufacturing complexity and costs, as well as improve the safety of the catheter adapters against fluid leakage. The open lumen cannula may also include one or more notches to facilitate flashback visualization. The catheter adapters may further include a catheter adapter body formed of a compliant material that houses one or more compression resistant septa with at least one lumen formed by the proximal end of the needle during a self–slitting process as the catheter adapter is assembled. The compression resistant septum may also be coupled to a compression cap that imparts a radial compression force on the one or more compression resistant septa such that the at least one lumen narrows and seals when the cannula is removed.

0) US2014148673A – METHOD OF ANCHORING PULLWIRE DIRECTLY ARTICULAT...

183) Family number: 55982419 (US2014148673A) © PatBase

Title: METHOD OF ANCHORING PULLWIRE DIRECTLY ARTICULATABLE REGION IN CATHETER

Priority: EP20130193922 20131121 US20120687275 20121128 US20120687319 20121128 US20120687294 20121128 US20150844099 20150903

Family:

Publication number	Publication date	Application number	Application date
DE602013007234 D1	20160616	DE201360007234T	20131121
EP2737922 A1	20140604	EP20130193922	20131121
EP2737922 B1	20160504	EP20130193922	20131121
EP3064244 A1	20160907	EP20160167501	20131121
US2014148673 AA	20140529	US20120687294	20121128
US2014148759 AA	20140529	US20120687275	20121128
US2015374956 AA	20151231	US20150844099	20150903
US8671817 BA	20140318	US20120687319	20121128
US8894610 BB	20141125	US20120687275	20121128

Probable Assignee: HANSEN MEDICAL INC

Assignee(s):(std)**:** HANSEN MEDICAL INC

Assignee(s): HANSEN MEDICAL INC MOUNTAIN VIEW

Inventor(s):(std)**:** BOGUSKY JOSEPH ; HSU JASON ; KADAKIA LEENA ; KOKISH ARKADY ; MACNAMARA FRANCIS ; MURTHY KIRAN ; ROMO ENRIQUE ; TRUONG HELEN

Inventor(s): TRUONG HELEN SUNNYVALE ; ROMO ENRIQUE DUBLIN ; MURTHY KIRAN SUNNYVALE ; MACNAMARA FRANCIS MOUNTAIN VIEW ; KOKISH ARKADY LOS GATIS ; KADAKIA LEENA FOSTER CITY ; HSU JASON MOUNTAIN VIEW ; BOGUSKY JOSEPH SAN JOSE

Agent(s): LECOMTE AND PARTNERS; VISTA IP LAW GROUP LLP

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

International class (IPC 8–9): A61B19/00 A61B34/00 A61B34/30 A61B34/37 A61B5/042 A61M25/00 A61M25/01 D04C3/48 (Advanced/Invention); A61B18/14 A61B19/00 (Advanced/Non–invention)

CPC: D04C3/48 A61M25/0012 A61M25/005 A61M2025/0034 A61M2025/004 A61M2025/0183 A61M25/0141 Y10T29/49117 Y10T29/49879 A61M2025/015 A61M2209/01 A61B18/1492 A61M25/0052 A61M2025/0161 A61M2205/50 A61M25/0147 A61B34/30 A61B34/37 A61B34/71 A61B2034/301 A61B2034/715

US class: 29/455.1 29/825 600/374 604/526 604/527 604/95.04 87/35

Classification Explorer

Cited documents: WO11132409 A1, WO10127162 A1, WO09120940 A2, WO08033589 A1, WO07149841 A2, WO06122061 A1, WO05081202 A1, WO05032637 A2, WO04039273 A2, WO0156457 A1, US8671817 BA, US83559207, US83559206 P, US83362407, US83362406 P, US8261648 BA, US8210085 BB, US8190238 BB, US8122809 BB, US8092397 BB, US8083691 BB, US8052636 BB, US7972298 BB, US7963288 BB, US7850642 BB, US7569052 BB, US7336305 A, US7192438 BB, US7008401 BB, US67800107, US6679152 BA, US6526859 BA, US6517477 BA, US6468260 BA, US64009906, US63795106, US6314856 BA, US6198974 BA, US5569220 A, US5320696 A, US5168864 A, US5146835 A, US4976812 A, US4925445 A, US48143306, US4748969 A, US41839806, US3572325 A, US2012221038 AA, US2012137491 AA, US2012071822 AA, US2011319910 AA, US2011162195 AA, US2011152880 AA, US201113173994, US2011048216 AA, US2010280525 AA, US2010280449 AA, US2010280320 AA, US2010168737 AA, US2010121138 AA, US2009099554 AA, US2009024141 AA, US2008281293 AA, US2008262480 AA, US2008255505 AA, US2008188890 AA, US2008033284 AA, US2007282167 AA, US2007270679 AA, US2007197896 AA, US2007156123 AA, US2007043338 AA, US2007016130 AA, US2006276775 AA, US2005222554 AA, US2005070844 AA, US2005059960 AA, US17900705, EP2204208

A2, EP1566150 A2, EP0904796 B1,

Forward Citations: WO16204954, US9566201, US9498291, US9364635, US8894610, US2015306343, US2015126852, US2015088060, US2014276934, US2014148759, US2013269109,

Abstract:
Source: US2014148673A A catheter comprises a flexible polymer catheter body including a proximal shaft section and a distal working section, a wire support structure embedded within the distal working section of the catheter body, a proximal adapter mounted to the proximal shaft section of the catheter body, and a wire disposed within the catheter body. The wire has a proximal end and a distal end. The proximal end of the wire being operably connected to the proximal adapter, and the distal end of the wire is anchored to the wire support structure.

0) US2017095624A – DRUG DOSE CARTRIDGE FOR AN INHALER DEVICE

184) Family number: 61321689 (US2017095624A) © PatBase

Title: DRUG DOSE CARTRIDGE FOR AN INHALER DEVICE

Priority:

US20140019225P 20140630 US20140035588P 20140811 US20140085772P 20141201
US20140086208P 20141202 US20140086208P 20141202 US20150164710P 20150521
WO2015IL50673 20150630 US20150308370 20150630 US20160391896 20161228
US20160362841 20161129 US20160362883 20161129 US20160386182 20161221
US20160382819 20161219 US20160375098 20161211 WO2015IL50675 20150630
WO2015IL50674 20150630 WO2015IL50677 20150630 WO2015IL50678 20150630
WO2015IL50676 20150630

Family:

Publication number	Publication date	Application number	Application date
AU2015283589 AA	20160107	AU20150283589	20150630
AU2015283590 AA	20160107	AU20150283590	20150630
AU2015283593 AA	20160107	AU20150283593	20150630
AU2015283594 AA	20160107	AU20150283594	20150630
CA2953069 AA	20161220	CA20152953069	20150630
CA2953073 AA	20161220	CA20152953073	20150630
CA2953074 AA	20161220	CA20152953074	20150630
CA2953082 AA	20161220	CA20152953082	20150630
CN106573118 A	20170419	CN201580045136	20150630
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CN106604755 A	20170426	CN201580045638	20150630
CN106659858 A	20170510	CN201580046016	20150630
EP3160552 A1	20170503	EP20150744363	20150630
EP3160553 A2	20170503	EP20150756490	20150630
EP3160554 A2	20170503	EP20150815982	20150630
EP3160558 A1	20170503	EP20150753782	20150630
EP3160565 A2	20170503	EP20150814472	20150630
IL249834 A0	20170330	IL20150249834	20150630
IL249835 A0	20170330	IL20150249835	20150630
IL249836 A0	20170330	IL20150249836	20150630
IL249837 A0	20170330	IL20150249837	20150630
KR20170024084 A	20170306	KR20177002721	20150630
KR20170026520 A	20170308	KR20177002343	20150630
KR20170026559 A	20170308	KR20177002682	20150630
US2017095624 AA	20170406	US20150308370	20150630
US2017106153 AA	20170420	US20160391896	20161228
US2017119979 AA	20170504	US20160362841	20161129
US2017119981 AA	20170504	US20160362883	20161129
US2017127727 AA	20170511	US20160386182	20161221
US2017136196 AA	20170518	US20160382819	20161219
US2017157343 AA	20170608	US20160375098	20161211
WO16001921 A2	20160107	WO2015IL50673	20150630
WO16001921 A3	20160324	WO2015IL50673	20150630
WO16001922 A1	20160107	WO2015IL50674	20150630
WO16001923 A2	20160107	WO2015IL50675	20150630
WO16001923 A3	20160303	WO2015IL50675	20150630
WO16001924 A2	20160107	WO2015IL50676	20150630
WO16001924 A3	20160324	WO2015IL50676	20150630

WO16001925 A1	20160107	WO2015IL50677	20150630	
WO16001926 A1	20160107	WO2015IL50678	20150630	

Probable Assignee: SYQE MEDICAL LTD

Assignee(s):(std)**:** SYQE MEDICAL LTD

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Inventor(s):(std)**:** DAVIDSON PERRY ; KINDLER SETH ; KROLL ASAF ; LIFSHITZ ROEE ; SCHORR AARON ; SCHWARTZ BENNY ; SCHWARTZ BINYAMIN ; ALMOG SHLOMO

Inventor(s): ASAF KROLL ; BINYAMIN SCHWARTZ ; AARON SCHORR ; SETH KINDLER ; SHLOMO ALMOG ; PERRY DAVIDSON ; ROEE LIFSHITZ

Agent(s): IP SENTINELS PATENT AND TRADEMARK ATTORNEYS; INTEGRAL IP; VOGEL ANDREAS; EHRLICH GAL 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

International class (IPC 8–9): A24F47/00 A61J1/03 A61K A61K31/05 A61K31/352 A61K31/465 A61K36/185 A61K36/81 A61K9/00 A61M A61M11/04 A61M13/00 A61M15/00 A61M15/06 A61M16/10 A61M16/14 A61M16/20 A61N65/00 G06F19/00 H05B1/02 (Advanced/Invention); A24F47/00 A61J1/03 A61M11/04 (Advanced/Non–invention)

CPC: A61M15/0065 A61K36/185 A61K9/007 H05B1/025 A24F47/008 A61M15/0028 A61M15/0045 A61K31/352 A61K9/0073 A61M2205/36 A61M2205/3334 A61M2205/3368 A61M15/0051 A61M2205/0216 A61M2205/52 A61K36/81 A61K31/465 A61M2205/3331 A61M15/0003 A61M16/14 A61M15/06 A61M2205/3303 A61M2205/502 A61M11/042 A61M15/002 A61M11/041 A61M15/005 A61M16/20 A61K31/05 A61M2205/3569 A61M2205/3592

Classification Explorer

Cited documents: WO13083636 A1, WO13057185 A1, WO12085919 A2, WO12026963 A2, WO11073306 A1, WO10015260 A2, WO09124552 A2, WO08116165 A2, WO08024490 A2, WO08024408 A2, US8235037 BB, US7987846 BB, US7169378 BB, US6703418 BB, US5655520 A, US5301666 A, US2015122252 AA, US2014238423 AA, US2014144429 AA, US2014100249 AA, US2014088045 AA, US2013333700 AA, US2013276799 AA, US2013081623 AA, US2012304990 AA, US2012252885 AA, US2011265806 AA, US2011036346 AA, US2011030706 AA, US2010326438 AA, US2010294278 AA, US2010250280 AA, US2010168228 AA, US2010035978 AA, US2010012118 AA, US2009320836 AA, US2009084865 AA, US2008181942 AA, US2008176885 AA, US2008078382 AA, US2007240712 AA, US2007102013 AA, US2007072938 AA, US2006258738 AA, US2006167084 AA, US2006120962 AA, US2005268911 AA, US2005268909 AA, US2005063686 AA, US2004099266 AA, US2004084044 AA, US2003168057 AA, US2002168322 AA, US2001027789 AA, GB2495771 A1, GB2340758 A1, AU708269 B2,

Abstract:
Source: US2017095624A Devices and methods are described for preparing, managing, and/or administering metered doses of substances for vaporized administration. In some embodiments, dose cartridges comprising at least one botanical substance include a heating element integrated into the cartridge in close contact with the botanical substance. In some embodiments, cartridge–mounted doses are stored in a magazine, optionally in carousel form, before use. Transport of a cartridge from a magazine to an electrically operated vaporizing chamber which activates the heating element is provided by a mechanical pickup means.

0) US6432117B – EAR CLEANING DEVICE

185) Family number: 15777996 (US6432117B) © PatBase

Title: Ear cleaning device

Priority: US19990464320 19991216 WO2000GB04806 20001214

Family:

Publication number	Publication date	Application number	Application date
AU200121975 A5	20010625	AU20010021975D	20001214
CA2394433 AA	20020614	CA20002394433	20001214
EP1237517 A1	20020911	EP20000985564	20001214
US6432117 BA	20020813	US19990464320	19991216
WO0143676 A1	20010621	WO2000GB04806	20001214

Probable Assignee: MURRAY JONATHAN AIDAN MUIR

Assignee(s):(std): MURRAY JONATHAN AIDAN MUIR

Assignee(s): JONATHAN AIDAN MUIR MURRAY

Inventor(s):(std): MURRAY JONATHAN AIDAN MUIR

Inventor(s): JONATHAN AIDAN MUIR MURRAY

Agent(s): MARKS AND CLERK

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

International class (IPC 8–9): A61F11/00 (Advanced/Invention); A61F11/00 (Core/Invention)

International class (IPC 1–7): A61F11/00

CPC: A61F11/006

European class: A61F11/00E

US class: 606/162

Classification Explorer

Cited documents: WO9842284 A1, US5888199 A, US4785796 A, US1450612 A, FR2531626 A2, EP0744168 A2, EP0184237 A1, DE9308737 U,

Forward Citations: WO06008432, USD701600, US8936562, US8740922, US7789845, US6764470, US2009163943, US2008195038, US2008142385, US2003105450, EP1778315,

Abstract:
Source: US6432117B A probe element with helical grooves is dimensioned to be inserted into the ear canal and stop short of the ear drum, the element being made of soft compressed cotton. A bulbous flexible plastic handle has an interior rod and a clutch for releasably receiving the element. Depressing the handle at the rod location forming an ejection button displaces the rod and an interior–coupling member for ejecting the probe element. The rigid smooth handle is rotated a quarter turn to remove wax from the ear canal. The element extends from the handle a predetermined length to not engage the eardrum, the handle having a blunt tip acting as a stop for the element during insertion.

0) GB413764A – IMPROVEMENTS IN OR RELATING TO WRITING IMPLEMEN...

186) Family number: 20000317 (GB413764A) © PatBase

Title: Improvements in or relating to writing implements

Priority: GB19330002941 19330131

Family:

Publication number	Publication date	Application number	Application date
GB413764 A	19340726	GB19330002941	19330131

Probable Assignee: ALBERT FRANK STANLEY KENT

Assignee(s):(std)**:** ALBERT FRANK STANLEY KENT

International class (IPC 8–9)**:** B43K8/14 (Advanced/Invention); B43K8/00 (Core/Invention)

International class (IPC 1–7)**:** B43K8/00

CPC: B43K8/143

European class: B43K8/14B

Classification Explorer

Forward Citations: US3424539, US3402008, US3361516, US2416896,

Abstract:
Source: GB413764A 2941 and 6007. [Class 146 (iii).] A self filling stylograph pen is provided with a solid writingpoint associated with a feed–bar, air–channels being provided in either or both the feedbar and the surrounding pointsection, and inkchannels being formed on or in the point and completed, if necessary, by other channels in the feed–bar. The point is of the type described in Specification 364,808, and consists of a member divided longitudinally into separate parts or of a number of separate elements such as wires, grouped together to form capillary channels, rounded and polished at the writing–end, and connected together for a portion of their length by soldering or other means to control the rigidity ; the point may be surrounded by a tube which may conform to the contour of the elements, and the tube may be formed with one or more internal constrictions or projections to control the flow of ink. The point e, Fig. 2, is preferably secured in position in an axial passage in the feed–bar d, but may be yieldingly mounted to facilitate movement of the tip over the surface. The feed–bar need not completely surround the point, but may be in the form of wings or projections at the forward end. Means may be provided for preventing inward movement of the point, and for preventing closing of the feed–passage in case the feed–bar is formed of insufficiently rigid material. The passage in the feed–bar may be continued directly through a passage c<1> in the point–section c into communication with the collapsable–sac reservoir b, or may be connected with the passage c<1> by means of a radial passage f<3> and a longitudinal spiral, or tortuous groove f<2> formed in, or in association with, the feed–bar. The bottom of the ink–feed channels may be grooved to facilitate flow, and the flow may be controlled by means of slots extending from the rear end of the feed–bar into communication with the point, the slots overlapping for a part of their length on being arranged at an angle to each other. Local reservoirs for ink may be formed in the feed–bar or point–section. The flow may also be regulated by the provision of a siphon arrangement either in the reservoir or in the passages formed in the feed–bar, or by the provision of a short length of tube adjustable on the point. An air passage f on the feed–bar may communicate directly with the reservoir through the passage c or through an air–tube g, g<1> arranged centrally or otherwise in the sac. The air–tube extends nearly to the rear end of the sac to facilitate filling, and is formed of soft rubber so as not to interfere with the action of the self–filling mechanism. The feed–bar may be provided with a coned rear end d<6>, Fig. 42, which on application of a cap s is forced against the action of a spring t, to close the ink–feed aperture c<1>. Alternatively, grooves may be formed in the point section and feed–bar to overlap for a small part of their length, so that relative rotation or longitudinal movement of the point–section and feed–bar will interrupt the communication and stop the flow of ink. According to one of the Provisional Specifications, the point may be formed of a piece of fluted wire or metal strip and wires or strips may be laid in the grooves, or the point may be made from a metal tube slit and bent inwardly at the free end to form a rounded tip with an interval feed–channel.

0) US2003120291A – TEMPORARY SEAL AND METHOD FOR FACILITATING ANAS...

187) Family number: 28690666 (US2003120291A) © PatBase

Title: TEMPORARY SEAL AND METHOD FOR FACILITATING ANASTOMOSIS

Priority: US20010033614 20011226 US20020123470 20020415 US20040952392 20040927 WO2002US41586 20021226 US20110033549 20110223 US20160139017 20160426

Family:

Publication number	Publication date	Application number	Application date
AU2002364249 AA	20030724	AU20020364249	20021226
AU2002364249 AH	20030724	AU20020364249	20021226
US2003120291 AA	20030626	US20010033614	20011226
US2006079915 AA	20060413	US20020123470	20020415
US2006206121 AA	20060914	US20040952392	20040927
US2011202077 AA	20110818	US20110033549	20110223
US2016310117 AA	20161027	US20160139017	20160426
US6814743 BB	20041109	US20010033614	20011226
US7544203 BB	20090609	US20040952392	20040927
US7947062 BB	20110524	US20020123470	20020415
US9345461 BB	20160524	US20110033549	20110223
WO03057062 A2	20030717	WO2002US41586	20021226
WO03057062 A3	20040304	WO2002US41586	20021226

Probable Assignee: MAQUET CARDIOVASCULAR LLC

Assignee(s):(std)**:** CHIN ALBERT K ; CHOI STEVEN B ; DAVIS JOHN W ; MAQUET CARDIOVASCULAR LLC ; MOREJOHN DWIGHT ; TAYLOR CHARLES S ; ORIGIN MEDSYSTEMS INC ; REIS EUGENE ; PINEDA EDWARD A ; PINEDA EDWARDA A ; WILLIS GEOFFREY H ; VEPA KUSHAL P ; VEPA KUSHALP P

Assignee(s): ORIGIN MEDSYSTEMS LLC

Inventor(s):(std)**:** CHIN ALBERT K ; CHOI STEVEN B ; DAVIS JOHN W ; PINEDA EDWARD A ; PINEDA EDWARDA ; REIS EUGENE ; TAYLOR CHARLES ; TAYLOR CHARLES S ; MOREJOHN DWIGHT ; VEPA KUSHAL P ; WILLIS GEOFFREY H ; VEPA KUSHALP P ; PINEDA EDWARDA A

Inventor(s): WILLIS GEOFFREY ; PINEDA EDWARD ; VEPA KUSHAL ; DWIGHT MOREJOHN ; DAVIS JOHN ; CHOI STEVEN ; ALBERT K CHIN ; CHARLES S TAYLOR ; CHIN ALBERT

Agent(s): FENWICK AND WEST LLP; LAW OFFICE OF ALAN W CANNON; KIRK; GRACE; WESLEY SCOTT

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

International class (IPC 8–9): A61B17/00 A61B17/08 A61B17/11 A61B17/12 A61B17/3205 (Advanced/Invention); A61B17/11 A61B17/12 A61B17/32 A61B17/3205 A61B17/34 A61M29/00 (Advanced/Non–invention); A61B17/00 A61B17/03 (Core/Invention); A61B17/03 A61B17/32 (Core/Non–invention)

International class (IPC 1–7): A61B17/04 A61B17/08 A61C A61D1/00

CPC: A61B17/12022 A61B17/12027 A61B17/1204 A61B2017/00575 A61B2017/0061 A61B2017/00632 A61B2017/00641 A61B17/0057 A61B2017/00362 A61B2017/00637 A61B2017/00659 A61B2017/1107 A61B17/12045 A61B17/12031 A61B17/12036 A61B17/32053

European class: A61B17/00P K61B17/00E9 K61B17/00P11J K61B17/00P7 K61B17/11B K61B17/3205G

US class: 1/1 60/621.3 606/151 606/153 606/153P 606/157 606/159 606/185 606/194 606/213

Cited documents: WO9962415 A1, WO9940851 A1, WO9847261 A1, WO9842262 A1, WO9807399 A1, WO9747261, WO9713463 A1, WO9625886 A1, WO9517127 A1, WO9212676 A2, WO9208513 A1, WO03030753 A1, WO0247561 A1, WO0247532 A2, WO0232324 A2, WO0232323 A2, WO0232293 A2, WO0223224 A2, WO02074188 A2, WO02058568 A1, WO0074579 A2, WO0069349 A1, WO0069346 A1, WO0059380 A2, WO0056226 A1, USD472318 S1, USD372310 S1, USD281721 S1, US6814743 BB, US6712831 BA, US6652555 BA, US6616684 BA, US6579225 BB, US6537300 BB, US6491705 BB, US6491704 BB, US6488636 BB, US6464712 BA, US646412 A, US6451034 BA, US6443965 BA, US6428555 BA, US6416527 BA, US6409739 BA, US6395016 BA, US6395015 BA, US6387105 BA, US6383897 BB, US6375671 BA, US6371965 BB, US6371964 BA, US6280460 BA, US6273861 BA, US6248119 BA, US6214029 BA, US6214022 BA, US6183496 BA, US6183486 BA, US6180848 BA, US6180848 B1, US6176413 BA, US6176413 B1, US6174322 BA, US6174322 B1, US6171329 BA, US6171329 B1, US6171321 BA, US6171321 B1, US6171319 BA, US6171319 B1, US6168623 BA, US6168623 B1, US6156050 A, US6142955 A, US6110187 A, US6093154 A, US6080176 A, US6080175 A, US6080173 A, US6036710 A, US6022367 A, US6010517 A, US6007495 A, US5984940 A, US5947998 A, US5944730 A, US5910153 A, US5904697 A, US5893369 A, US5881943 A, US5865802 A, US5827316 A, US5826251 A, US5817113 A, US5800455 A, US5797953 A, US5797933 A, US5788651 A, US5782860 A, US5772986 A, US5766220 A, US5749883 A, US5746760 A, US5702412 A, US5700277 A, US5695504 A, US5690674 A, US5688286 A, US5634936 A, US5630833 A, US5620461 A, US5593422 A, US5592433 A, US5592422 A, US5545178 A, US5515861 A, US5498332 A, US5496332 A, US5488958 A, US5478320 A, US5476469 A, US5470320 A, US5454833 A, US5423330 A, US5413571 A, US5403338 A, US5397331 A, US5395383 A, US5383897 A, US5383896 A, US5358488 A, US5350399 A, US5342393 A, US5330497 A, US5330446 A, US5323789 A, US5313958 A, US5312453 A, US5312435 A, US5312417 A, US5304193 A, US5290249 A, US5273519 A, US5258000 A, US5222974 A, US5214022 B1, US5197971 A, US5192594 A, US5192301 A, US5192294 A, US5176687 A, US5172702 A, US5147374 A, US5147305 A, US5129913 A, US5122122 A, US5116357 A, US5108421 A, US5108420 A, US5036868 A, US5018530 A, US5005585 A, US4961430 A, US4931042 A, US4921478 A, US4917091 A, US4917090 A, US4852568 A, US4819819 A, US4794928 A, US4785826 A, US4753637 A, US4744364 A, US4738261 A, US4733671 A, US4721109 A, US4699154 A, US4682606 A, US4652568 A, US4624257 A, US4607637 A, US4469109 A, US4388925 A, US4352358 A, US4314565 A, US4282884 A, US4243048 A, US4216776 A, US4122855 A, US4018228 A, US4010737 A, US4010543 A, US3993078 A, US3882849 A, US3874388 A, US3776623 A, US3776237 A, US3774615 A, US3683891 A, US3628524 A, US3561429 A, US3394699 A, US3254650 A, US3253594 A, US3104666 A, US3034680 A, US2919692 A, US2850007 A, US2453056 A, US2005080439 AA, US2004019360 AA, US2003065347 AA, US2003023251 AA, US2002188317 AA, US2002177885, US2002177865 AA, US2002173809 AA, US2002151914 AA, US2002111619 AA, US2002087175 AA, US2002082626 AA, US2002082614 AA, US2002077637 AA, US2002065474 AA, US2002042623 AA, US2002038127 AA, US2002029050 AA, US2002029049 AA, US2002029007 AA, US2002019643 AA, US2001047179 AA, US2001037129 AA, US2001023354 AA, US2001021856 AA, US2001016749 AA, US2001004698 AA, US2001004697 AA, US2001001825 AA, US2001001122 AA, US2001000903 AA, US1867624 A, US1151300 A, US1052374 A, SU125870, SU125870, EP1088519 A1, EP0894475 A1, EP0882429 A1, EP0544485 A1, EP0373927 A2, DE19650204 C2, DE19650204, DE1160573, AU270419, AU270419, AU270419,

Forward Citations: WO16007917, WO10118312, WO10118312, WO08137017, WO08137017, WO08137015, WO08137015, WO05051176, WO05041790, WO05041790, US9669195, US9662479, US9642994, US9629684, US9615907, US9572623, US9545505, US9545290, US9468431, US9433437, US9427255, US9427221, US9375268, US9345461, US9345460, US9314620, US9301776, US9277957, US9254169, US9241706, US9233241, US9226772, US9220526, US9149265, US9138214, US9078662, US9055932, US9049987, US9028483, US9011431, US9005198, US8992567, US8986335, US8986199, US8961541, US8951283, US8945235, US8939897, US8906035, US8888792, US8845683, US8845682, US8845663, US8828031, US8771260, US8758376, US8740970, US8728101, US8702727, US8685047, US8679003, US8672964, US8663321, US8652150, US8608652, US8603137, US8597345, US8585722, US8579897, US8568410, US8550086, US8529563, US8518063, US8506592, US8506564, US8496574, US8486094, US8480689, US8480657, US8460331, US8449538, US8444671, US8439944, US8435236, US8425505, US8409200, US8403926, US8372072, US8366706, US8361112, US8361066, US8353487, US8337394, US8317806, US8262680, US8262655, US8262563, US8252057, US8241210, US8241204, US8231619, US8226645, US8211125, US8172772, US8157834, US8114119, US8114072, US8100922, US8075572, US8070759, US8037591, US8029504, US7993366, US7981133, US7972265, US7947062, US7938842, US7914461, US7867163, US7815662,

US7803172, US7763037, US7655004, US7572274, US7544203, US2015196741, US2014081318, US2012109189, US2011144661, US2011130624, US2011106012, US2011087252, US2010312259, US2010152748, US2010016887, US2009306683, US2009299387, US2009299281, US2009275978, US2009093825, US2009076454, US2009054841, US2009043243, US2009018555, US2008275501, US2008275479, US2008154303, US2008140098, US2008114394, US2008109030, US2008097521, US2007198042, US2007123817, US2006241689, US2006212066, US2006190036, EP2145585, EP2145585, CN102458264,

Abstract:
Source: US2003120291A Forming a proximal anastomosis on an aortic wall includes method and instrumentation and apparatus for forming an aortic puncture and inserting a fluid−impervious sealing element with a lateral flange and central stem into the vessel through the puncture. An anastomosis of a graft vessel over the puncture is partially completed with the central stem of the sealing element protruding through the partial anastomosis. A removal instrument attaches to the central stem and retrieves the sealing element that disassembles in helical disassociation of the flange and stem into a continuous strand that is withdrawn from the partial anastomosis prior to completion of the procedure.

0) US2006237008A – MULTI–DOSE INHALER

188) Family number: 31478080 (US2006237008A) © PatBase

Title: MULTI–DOSE INHALER

Priority: EP20040743323 20040709 IN2003MU00700 20030709 WO2004GB02982 20040709

Family:

Publication number	Publication date	Application number	Application date
AP200603491 A0	20060228	AP20060003491	20040709
AT440630 E	20090915	AT20040743323T	20040709
AU2004255029 AA	20050120	AU20040255029	20040709
AU2004255029 BB	20100520	AU20040255029	20040709
BRPI0412427 A	20060905	BR2004PI12427	20040709
CA2531654 AA	20060106	CA20042531654	20040709
CA2531654 C	20110920	CA20042531654	20040709
CN1856336 A	20061101	CN200480025761	20040709
DE602004022810 D1	20091008	DE200460022810T	20040709
DK1641508 T3	20091005	DK20040743323T	20040709
EA009490 B1	20080228	EA20060000177	20040709
EA200600177 A1	20060825	EA20060000177	20040709
ECSP066356 A	20060830	EC2006SP06356	20060208
EG24469 A	20090802	EG20060000020T	20060108
EG24469 A	20090802	EG20060000020	20060108
EP1641508 A1	20060405	EP20040743323	20040709
EP1641508 B1	20090826	EP20040743323	20040709
ES2330439 T3	20091210	ES20040743323T	20040709
IL173031 A0	20060611	IL20060173031	20060109
IL173031 A1	20110831	IL20040173031	20040709
IN00069MN2006 A	20060929	IN2006MN00069	20060119
IN00700MU2003 A	20060303	IN2003MU00700	20030709
IN207851 B	20081017	IN2003MU00700	20030709
JP2007515997 T2	20070621	JP20060518367T	20040709
JP4616258 B2	20110119	JP20060518367T	20040709
KR101075962 B1	20111021	KR20067000519	20040709
KR20060026483 A	20060323	KR20067000519	20040709
MA27984 A1	20060703	MA20060028782	20060207
MXPA06000205 A1	20060321	MX2006PA00205	20040709
NO20060578 A	20060403	NO20060000578	20060203
NZ544638 A	20090331	NZ20040544638	20040709
PT1641508 T	20091023	PT20040743323T	20040709
RS20060005 A	20071231	YU20060000005	20040709
SI1641508 T1	20091231	SI20040031214T	20040709
TNSN06007 A1	20071003	TN2006SN00007	20060109
UA90997 C2	20100625	UA20060000363	20040709
US2006237008 AA	20061026	US20040563770	20040709
US7395821 BB	20080708	US20040563770	20040709
WO05004962 A1	20050120	WO2004GB02982	20040709
ZA200601125 A	20070425	ZA20060001125	20040709

Probable Assignee: CIPLA LTD

Assignee(s):(std)**:**

	CIPLA LTD ; LULLA AMAR ; MALHOTRA GEENA ; RAO XERXES ; WAIN CHRISTOPHER PAUL
Assignee(s):	CIPLA LIMITED
Inventor(s):(std)	AMAR LULLA ; GEENA MALHOTRA ; LULLA AMAR ; MALHOTRA GEENA ; RAO XERXES ; XERXES LULLA AMAR MALHOTRA GEE ; XERXES RAO
Inventor(s):	WO 2005 004962 ; LULLA AMAR MALHOTRA GEENA RAO XERXES
Agent(s):	GRIFFITH HACK; SIM AND MCBURNEY; BENNETT ADRIAN ROBERT J; REINHOLD COHN AND PARTNERS; DYKEMA GOSSETT PLLC
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
International class (IPC 8–9):	A61M13/00 A61M15/00 (Advanced/Invention); A61M13/00 A61M15/00 (Core/Invention); A61M (Subclass/Invention)
International class (IPC 1–7):	A61M A61M015/00 A61M15/00
CPC:	A61M15/0036 A61M15/0048 A61M15/0045 A61M2202/064 A61M15/0075
European class:	A61M15/00C2 K61M15/00C1P K61M15/00C1P1A K61M15/00C2B2 K61M202/06B
US class:	128/203.12 128/203.120 128/203.15 128/204.13
Classification Explorer	
Cited documents:	WO0253216, WO02053216 A2, US6116238 A, US5388572 A, US2002032409 AA, US2002032409, US0032409, JP9504455, JP5988158, JP2001524363 T2, JP2001524363,
Forward Citations:	WO09092591, WO08114034, WO08114034, WO07007110, USD646383, USD590939, US9636842, US9283337, US9211383, US9202164, US8763607, US8578933, US8479729, US8151793, US2011226243, US2011017205, US2010126507, LT6161, EP3042681, EP2239003, EP2239001,

Abstract:
Source: US2006237008A The present invention relates to an inhaler device and provides such a device comprising first and second compartments (4, 6) movable relative to one another such that, upon movement of said components (4, 6), operating means (16, 28, 40, 42, 44, 46) advances a cartridge compartment (140) into a predetermined position relative to medicament extraction facilitating means (14) and extends the medicament extraction facilitating means (14) into a position adjacent said advanced compartment (140) for allowing medicament extraction upon inhalation by a user.

0) US5041084A – SINGLE STAGE VENOUS CATHETER

189) Family number: 3156026 (US5041084A) © PatBase

Title: SINGLE STAGE VENOUS CATHETER

Priority: US19900564606 19900809

Family:

Publication number	Publication date	Application number	Application date
DE69103844 D1	19941013	DE19916003844	19910731
DE69103844 T2	19950209	DE19916003844T	19910731
EP0470495 A1	19920212	EP19910112858	19910731
EP0470495 B1	19940907	EP19910112858	19910731
US5041084 A	19910820	US19900564606	19900809

Probable Assignee: MEDTRONIC INC

Assignee(s):(std)**:** DLP INC

Assignee(s): DLP INC A CORP OF MI ; DLP INC GRAND RAPIDS MINN US ; MEDTRONIC INC

Inventor(s):(std)**:** DEVRIES JAMES H ; DEVRIES JAMES HOWARD ; JONKMAN KENNETH R ; JONKMAN KENNETH ROY

Inventor(s): JONKMAN KENNETH ROY GRAND RAPIDS MI 49504 US ; DEVRIES JAMES HOWARD GRAND RAPIDS MI 49504 US

Designated states: DE FR GB NL

International class (IPC 8–9): A61M25/00 (Advanced/Invention); A61M1/36 (Advanced/Non–invention); A61M25/00 (Core/Invention); A61M1/36 (Core/Non–invention)

International class (IPC 1–7): A61M25/00 A61M3/00

CPC: A61M1/3659 A61M25/007 A61M25/0069

European class: A61M25/00T10C A61M25/00T3 K61M1/36C7D K61M25/00T10A

US class: 604/169 604/264 604/280 604/43 604/523

Classification Explorer

Cited documents: US4863441 A, US4787882 A, US4596548 A, US4129129 A, US4030503 A, US3630207 A, EP0299622 A2, EP0230040 A2, EP0161045 A1, EP0159773 B1,

Forward Citations: WO9747230, WO9308864, USRE42758, US9622754, US9456872, US9332914, US9283040, US9149601, US9084850, US8888806, US8870908, US8790363, US8728142, US8652163, US8613706, US8591450, US8535345, US8500674, US8486082, US8298256, US8282677, US8257323, US8100918, US7972342, US7909794, US7780680, US7776054, US7740637, US7645275, US7578826, US7575582, US7326225, US7316701, US7255707, US7198613, US7147618, US7070608, US7066931, US7014616, US6966892, US6951555, US6913618, US6887235, US6872218, US6855155, US6835185, US6679903, US6656218, US6656201, US6638291, US6616617, US6595932, US6551305, US6500149, US6497671, US6478773, US6475169, US6432066, US6416541, US6383204, US6352531, US6319267, US6319244, US6306153, US6296622, US6293960, US6241691, US6221066, US6171326, US6168615, US6168570, US6165194, US6165140, US6159165, US6152911, US6149664, US6136015, US6102932, US6090125, US5984908, US5807328, US5333614, US5314418, US2014276683, US2011144620, US2010249823, US2010152663, US2010069948, US2010004731, US2009312687, US2009299275, US2009069836, US2008147076, US2008027334, US2007191879, US2007038170, US2006241686, US2006241682, US2006079926, US2005203425, US2005113863, US2004220522, US2004122502, US2003191521, US2002173839, FR2681789, ES2039304, AU732619,

Abstract:
Source: US5041084A A single stage catheter which is used in open heart surgery to by–pass blood from the heart to a life support machine. The single stage catheter has a spiral lead flute for insertion into the inferior vena cava of the heart and a root section with multiple openings to be positioned in the right atrium of the heart. The

flutes of the spiral lead to small quadrant openings in the end of the root section which also has long and short axial slot openings leading to the interior of the catheter. An obturator is designed to block the long and short axial slots during insertion to allow flow only through the quadrant openings to the interior of the obturator.

0) US4985022A – CATHETER HAVING DURABLE AND FLEXIBLE SEGMENTS

190) Family number: 7810194 (US4985022A) © PatBase

Title: Catheter having durable and flexible segments

Priority: CA19892003644 19891122 US19880275435 19881123 US19890458610 19891229

Family:

Publication number	Publication date	Application number	Application date
CA2003644 AA	19900523	CA19892003644	19891122
DE69016983 D1	19950323	DE19906016983	19901213
DE69016983 T2	19950706	DE19906016983T	19901213
EP0370785 A1	19900530	EP19890312112	19891122
EP0435518 A1	19910703	EP19900313604	19901213
EP0435518 B1	19950215	EP19900313604	19901213
ES2067700 T3	19950401	ES19900313604T	19901213
JP4122266 A2	19920422	JP19900413018	19901225
US4985022 A	19910115	US19880275435	19881123
US5069674 A	19911203	US19890458610	19891229

Probable Assignee: MEDICAL ENGINEERING AND DEV I

Assignee(s):(std)**:** EMU II DEI INST INC ; FEARNOT NEAL E ; HAWKINS MELVIN K ; SISKEN RICHARD B ; MEDICAL ENGINEERING AND DEV I ; MED INST INC ; COOK INC

Assignee(s): COOK INC A CORP OF IN ; COOK INC A CORP OF INDIANA ; MEDICAL ENGINERRING AND DEVELOPMENT INST ; MEDICAL ENGINEERING AND DEVELOPMENT INST ; MED INST INC WEST LAFAYETTE IND US ; MEDICAL ENGINERRING AND DEVELOPMENT INST INC A COR ; MEDICAL ENGINEERING AND DEVELOPMENT INST INC

Inventor(s):(std)**:** HAWKINS MELVIN K ; HAWKINS MELVIN KEM ; NIIRU II FUIANOTSUTO ; RICHIYAADO BII SHISUKEN ; SISKEN RICHARD B ; SISKEN RICHARD BRIAN ; FEARNOT NEAL E ; FEARNOT NEAL EDWARD

Inventor(s): FEARNOT NEAL EDWARD WEST LAFAYETTE INDIANA ; FEARNOT NEAL EDWARD WEST LAFAYETTE INDIANA 47906 U ; FEARNOT NEAL EDWARD WEST LAFAYETTE INDIANA 47906 US ; SISKEN RICHARD BRIAN WEST LAFAYETTE INDIANA ; SISKEN RICHARD BRIAN WEST LAFAYETTE INDIANA 47906 ; SISKEN RICHARD BRIAN WEST LAFAYETTE INDIANA 47906 US

Agent(s): KIRBY EADES GALE BAKER

Designated states: DE ES FR GB IT

International class (IPC 8–9): A61F2/06 A61F2/94 A61M25/00 A61M25/01 (Advanced/Invention)

International class (IPC 1–7): A61M25/00 A61M25/00 A61M25/01

CPC: A61M25/0045 A61M25/005 A61F2230/0091 A61F2/94 A61M25/0043 A61M25/0053 A61M2025/0007 A61M2025/0059

European class: A61F2/06S10 A61F2/94 A61M25/00S A61M25/00S1 A61M25/00S2 K61M25/00E K61M25/00S2C K61M25/00S7

US class: 604/282 604/288 604/523 604/524 604/525

Classification Explorer

Cited documents: US4985022 A, US4976720 A, US4917666 A, US4884573 A, US4842590 A, US4784639 A, US4737153 A, US4639252 A, US4596563 A, US4580568 A, US4547192 A, US4515587 A, US4425919 A, US4385635 A, US4368730 A, US4052989 A, US3913565 A, US3841308 A, US3757768 A, US3470876 A, FR478285 A, FR2505191 A1, FR2204430 A1, EP0259945 A2, DE3447642 C1,

Forward Citations: WO9904705, WO9621404, WO9603175, WO9600101, WO9523563, WO9424961, WO16061669, WO15054532, WO13101258, WO10104766, WO10104766, WO08051771, WO0137918, US9655677, US9649155, US9629687, US9610073, US9610006,

US9592363, US9586025, US9585725, US9579129, US9545268, US9539415, US9486227, US9474518, US9463012, US9445784, US9439642, US9421005, US9402668, US9375234, US9333031, US9302083, US9271779, US9271766, US9271741, US9226828, US9205231, US9192395, US9173650, US9173647, US9168079, US9155544, US9149281, US9138222, US9119935, US9101377, US9089323, US9084870, US9072874, US9067362, US9060767, US9023011, US8979790, US8973239, US8961550, US8945092, US8945025, US8939916, US8936558, US8932235, US8920369, US8915865, US8900163, US8870790, US8845752, US8845699, US8845687, US8840601, US8838195, US8821510, US8821477, US8814902, US8808329, US8808232, US8805466, US8795326, US8795255, US8795254, US8795202, US8784337, US8747439, US8747428, US8738107, US8734439, US8728147, US8715589, US8708953, US8700115, US8636716, US8628633, US8623065, US8617208, US8617185, US8591495, US8556914, US8551021, US8551020, US8535294, US8535262, US8535243, US8523899, US8512245, US8496657, US8467843, US8449597, US8449526, US8419719, US8409114, US8377035, US8376980, US8376961, US8348925, US8343135, US8328791, US8328771, US8323241, US8317772, US8295902, US8257279, US8251976, US8231647, US8231551, US8206343, US8182465, US8158670, US8137293, US8105246, US8097642, US8088097, US8088091, US8067022, US8048060, US8048004, US8043465, US8034045, US8029555, US8022331, US7985214, US7968038, US7959623, US7955313, US7951206, US7918806, US7914516, US7914467, US7914466, US7909812, US7878984, US7850623, US7842098, US7841994, US7828832, US7828790, US7824392, US7824345, US7815599, US7780638, US7763142, US7704245, US7682380, US7678154, US7670302, US7625410, US7615043, US7597830, US7569045, US7547302, US7540865, US7488338, US7479150, US7465291, US7438712, US7438711, US7410602, US7354430, US7297302, US7291180, US7169139, US7104979, US7104979, US7101392, US7037345, US7022109, US7001369, US6991614, US6958062, US6951555, US6945970, US6945950, US6942684, US6929663, US6925323, US6866660, US6849069, US6824553, US6814715, US6719804, US6702972, US6692462, US6689120, US6682493, US6669886, US6656146, US6652508, US6648854, US6629952, US6620202, US6613072, US6613038, US6602242, US6595966, US6569150, US6551350, US6537480, US6527802, US6520986, US6517570, US6508805, US6505066, US6497709, US6470209, US6464684, US6464682, US6425898, US6423071, US6413270, US6409683, US6375787, US6368316, US6364897, US6361637, US6352561, US6352553, US6338730, US6338725, US6332892, US6331188, US6319244, US6290721, US6287331, US6280423, US6277084, US6258080, US6217566, US6213974, US6212422, US6193705, US6190370, US6171295, US6171275, US6165163, US6165152, US6159187, US6152912, US6152911, US6146355, US6143013, US6132425, US6120476, US6090105, US6090099, US6080150, US6071280, US6059780, US6056772, US6056702, US6053904, US6036682, US6033388, US6033378, US6019778, US5980517, US5971975, US5961511, US5961499, US5954651, US5951547, US5951539, US5951495, US5947940, US5947939, US5941858, US5928229, US5925042, US5913855, US5902291, US5899892, US5891114, US5891112, US5865800, US5853400, US5843031, US5827278, US5795341, US5776115, US5730733, US5704926, US5702373, US5700252, US5695483, US5695482, US5685841, US5683384, US5674240, US5674208, US5669383, US5667499, US5658264, US5643278, US5599326, US5599305, US5573522, US5573520, US5573517, US5571073, US5562619, US5531719, US5531686, US5517846, US5496294, US5460608, US5454795, US5423774, US5423773, US5405338, US5405316, US5395327, US5383890, US5344413, US5336182, US5320611, US5267979, US5254088, US5222949, US5209734, US5195991, US5137013, US5069674, US2016100859, US2015112310, US2015094685, US2012302827, US2012203322, US2012197069, US2011172643, US2011087070, US2011082526, US2011082443, US2010282394, US2010268243, US2010228179, US2010179471, US2010163159, US2010145308, US2010063480, US2010063479, US2010000666, US2009187152, US2009157044, US2009149834, US2009093790, US2009043372, US2009043299, US2009043283, US2009043228, US2009036834, US2009036833, US2009036832, US2008262474, US2008243169, US2008181278, US2008154259, US2008147170, US2008125752, US2008108974, US2008091259, US2008077119, US2008064989, US2008051734, US2008021407, US2007287955, US2007191790, US2007123842, US2007100285, US2007083132, US2007066900, US2007049903, US2007049902, US2006264904, US2006235502, US2006189896, US2006149192, US2006135941, US2006133763, US2006129176, US2006122707, US2006111649, US2005283135, US2005267566, US2005267444, US2005245959, US2005245958, US2005149176, US2005113802, US2005090802, US2005043714, US2005043713, US2005010194, US2004220549, US2004199144, US2004193283, US2004193140, US2004186552, US2004181174, US2004176740, US2004167437, US2004143239, US2004116896, US2004111044, US2004106897, US2004093003, US2004092857, US2004089969, US2004059428, US2004059279, US2003204179, US2003191450, US2003158538, US2003093060, US2003083623, US2003060732, US2003009208, US2002123738, US2002087189, JP6261952,

JP5626855, JP5580096, JP2015509749, JP2014213124, JP2011255049, JP2011212054, JP2006519660, GB2372211, FR2835436, FR2715571, EP0989876, EP0847772, EP0715863, EP0631791, EP0621015, EP0490325, DE4428914, DE20110121, DE10324365, CN104288892, AU712466, AU684980,

Abstract:
Source: US4985022A An epidural catheter is disclosed having a durable and a flexible segment joined together. The flexible segment is inserted into a patient with the use of a well−known needle which is removed by passing the needle over the outside of the catheter. The flexible segment is atraumatic to the surrounding tissue. The flexible segment includes a plastic tube surrounded by a wire coil for pushing the tube into a passageway of the tissue. The distal end of the plastic tube and wire coil are joined to prevent unwinding of the coil when extracted. The tightly coupled wire coil also permits the flexible portion to be easily inserted into the passageway of the tissue. The durable segment joined to the flexible segment includes a stainless steel tube with a flat wire coil surrounding a length of the tube. The stainless steel tube permits fluid at an elevated pressure to pass through the hollow passageway therein without rupturing. The flat wire coil prevents kinking of the semi−rigid stainless steel tube. When a fluid at an elevated pressure is received, the distal end of the flexible tube is closed to diffuse the fluid passing through the length of the catheter. Slits are provided laterally on the side of the plastic tube for emitting and diffusing the fluid through the wire coil.

0) US4472004A – LUBRICATED BEARING FOR SPINNING ROTOR

191) Family number: 1979220 (US4472004A) © PatBase

Title: LUBRICATED BEARING FOR SPINNING ROTOR

Priority: DE19792934623 19790828 DE19803027492 19800719 US19800180099 19800821

Family:

Publication number	Publication date	Application number	Application date
CH649366 A	19850515	CH19800006453	19800827
CS276220 B6	19920415	CS19800005831	19800826
DE2934623 A1	19810312	DE19792934623	19790828
DE2934623 C2	19820722	DE19792934623	19790828
DE3027492 A1	19820211	DE19803027492	19800719
DE3027492 C2	19821230	DE19803027492	19800719
GB2069071 A1	19810819	GB19800027846	19800828
GB2069071 B2	19830323	GB19800027846	19800828
IT1132489 A	19860702	IT19800024311	19800827
IT8024311 A0	19800827	IT19800024311	19800827
JP1213884 C3	19840627	JP19800117169	19800827
JP56043427 A2	19810422	JP19800117169	19800827
JP58046574 B4	19831017	JP19800117169	19800827
US4472004 A	19840918	US19810237601	19810224

Probable Assignee: SKF KUGELLAGERFABRIKEN GMBH

Assignee(s):(std)**:** SKF KUGELLAGERFABRIKEN GMBH

Assignee(s): SKF KUGELLAGERFABRIKEN GMBH 8720 SCHWEINFURT DE ; ESU KAARU EFU KUUGERURAAGERUFUABURIKEN GMBH ; SKF KUGELLAGERFABRIKEN GES MIT BESCHRAENKTER HAFTUNG ; SKF KUGELLAGERFABRIKEN GESELLSCHAFT MIT BESCHRAENKTER HAFTUNG

Inventor(s):(std)**:** GUTMANN GUENTHER ; GUTMANN GUENTHER DIPL ING ; HEMPEL THEODOR ; THEODOR HEMPEL ; RUDOLF FINGERLE ; GUNTHER GUTMANN ; FINGERLE RUDOLF ; TEODOA HEMUPERU ; RUDORUFU FUINGERURE ; GUTMANN GUNTHER ; GIYUNTAA GUTSUTOMAN

Inventor(s): FINGERLE RUDOLF 7300 ESSLINGEN DE ; GUTMANN DIPL ING ; GYUNTAA GUTSUTOMAN ; HEMPEL THEODOR 7016 GERLINGEN DE

International class (IPC 8–9)**:** D01H4/12 D01H7/20 F16C33/66 F16N7/12 F16N9/02 (Advanced/Invention); D01H4/00 D01H7/02 F16C33/66 F16N7/00 F16N9/00 (Core/Invention)

International class (IPC 1–7)**:** D01H1/12 D01H7/20 D01H7/882 F16C33/66 F16N7/12 F16N9/02

CPC: D01H4/12 F16C33/6607 F16C33/6622 F16C2340/18

US class: 308/187 384/286 384/463

Classification Explorer

Cited documents: US3730599 A, US3424273 A, US2348275 A, US2326161 A, US2188251 A, US2017290 A, US1859068 A, JP45020094 Y1, JP40012563 Y1, JP36020775 A2, DE6938370 U, DE6938370, DE1926519 A1, DE1238997 B,

Forward Citations: WO15000510, US9051970, US8746982, US7785012, US7052254, US4609293, US4541740, US2014029881, US2012328225, US2007075581, US2005025643, JP61134791, JP4057156, GB2422880, GB2422880, EP2306037, EP0425868, DE3540252, DE3304912, DE3126892, DE19902706, DE19502135, DE19502135,

Abstract:
Source: US4472004A A bearing assembly for supporting the shaft of a spinning rotor is provided having a housing in which a pair of roller bearings are mounted spaced from each other along the shaft and which journal the shaft. Interposed between the roller bearings and surrounding the shaft is a sleeve in the form of a tubular member provided with at least one capillary channel formed between the inner and outer surfaces and extending

longitudinally between its frontal ends. At least one hole extends from the outer surface radially inward in communication with the capillary channel. In this manner lubricant supplied to the housing exterior of the sleeve will pass through the hole and the capillary channel into direct contact with the roller bearings.

0) US2011208089A – FULL CORE BIOPSY DEVICE

192) Family number: 49470973 (US2011208089A) © PatBase

Title: FULL CORE BIOPSY DEVICE

Priority: JP20130521896 20110726 JP20130521896T 20110726 US20100970761 20101216 US20100368119P 20100727 US20100308024P 20100225 JP20150054716 20150318 WO2011US45322 20110726 US20120614078 20120913 US20110190808 20110726 US20110564633P 20111129 US20140229542 20140328 US20130806241P 20130328 US20130907209P 20131121 WO2012US67019 20121129

Family:

Publication number	Publication date	Application number	Application date
EP2598040 A1	20130605	EP20110813034	20110726
EP2785255 A1	20141008	EP20120854131	20121129
EP2785255 A4	20160127	EP20120854131	20121129
JP2013532557 T2	20130819	JP20130521896T	20110726
JP2015154940 A2	20150827	JP20150054716	20150318
JP2015502802 T2	20150129	JP20140544875T	20121129
JP5890411 B2	20160322	JP20130521896T	20110726
JP6106185 B2	20170329	JP20140544875T	20121129
US2011208089 AA	20110825	US20100970761	20101216
US2012010527 AA	20120112	US20110190808	20110726
US2013053725 AA	20130228	US20120614078	20120913
US2014213932 AA	20140731	US20140229542	20140328
US9237883 BB	20160119	US20100970761	20101216
US9332970 BB	20160510	US20120614078	20120913
US9463002 BB	20161011	US20140229542	20140328
WO12015801 A1	20120202	WO2011US45322	20110726
WO13082259 A1	20130606	WO2012US67019	20121129

Probable Assignee: PROMEX TECH LLC

Assignee(s):(std): BECK DEBORAH R ; IRELAND DAN C ; JJ DOGS LLC ; KOHALA INC ; MILLER SEAN ; PROMEX TECHNOLOGIES LLC ; SUNDHEIMER HERBERT ALAN ; PROMEX TECH LLC

Assignee(s): PAVE LLC

Inventor(s):(std): BECK DEBORAH R ; BECK DEBORAH RAE ; DAN C IRELAND ; HERBERT ALAN SUNDHEIMER ; IRELAND DAN C ; KNOLL DOUGLAS PERIANU ; MILLER SEAN ; SEAN MILLER ; SUNDHEIMER HERBERT ALAN

Agent(s): ROTTMANN MAXIMILIAN; ROTTMANN RICHARD; HOSHINO OSAMU; ONO SHINJIRO; TOMITA HIROYUKI; KOBAYASHI YASUSHI; YAMAMOTO OSAMU; TAKEUCHI SHIGEO; MAGINOT MOORE AND BECK LLP; BECK MICHAEL D

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 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 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

International class (IPC 8–9): A61B10/00 A61B10/02 A61B19/00 (Advanced/Invention); A61B10/00 A61B17/32 A61B17/3205 A61B17/34 A61B19/00 (Advanced/Non–invention)

International class (IPC 1–7): A61B19/00

CPC: A61B10/0266 A61B17/32053 A61B2017/320064 A61B2017/3447 A61B2019/462 A61B2090/067 A61B10/0096 A61B10/0275 A61B10/0283 A61B2010/0093 A61B2010/0208 A61B2010/0225 A61B2017/32004 A61B2090/062 A61B10/0233 A61B17/3403 A61B10/025

European class: A61B10/02P K61B10/00Q2 K61B10/02P8 K61B19/46D

US class: 1/1 600/566 600/566P 600/567 600/567P 600/567S

Classification Explorer

Cited documents: WO08115526 A2, WO05013831 A2, US8728008 BB, US8157746 BB, US7854706 BB, US7611473 BB, US7608049 BB, US7137956 BB, US7104945 BB, US6918881 BB, US6689072 BB, US6494844 BA, US6416484 BA, US6322523 BB, US6258045 BA, US6196978 BA, US6126617 A, US6083237 A, US6022324 A, US6022324, US6015391 A, US5916175 A, US5788651 A, US5655542 A, US5615690 A, US5535755 A, US5526822 A, US5490521 A, US5490521, US5400798 A, US5400798, US5392790 A, US5313958 A, US5224470 A, US4907598 A, US4512344 A, US2012010527 AA, US2011208089 AA, US2011152715 AA, US2011077551 AA, US2011066074 AA, US2010317997 AA, US2009275858 AA, US2009204020 AA, US2009143808 AA, US2009088666 AA, US2008234602 AA, US2008119881 AA, US2008119881, US2008071193 AA, US2007156164 AA, US2007142744 AA, US2007106176 AA, US2006217635 AA, US2006173377 AA, US2004167428 AA, US2003045873 AA, US05490521, US05400798, SU1404068 T, SH64691587, RU13534 U1, JP8140980 A2, JP8140980, JP7308320 A2, JP7308320, JP6406915 U, JP64006915 U1, JP64006915 U, JP64006915 U, JP64006915, JP2011519671 T2, JP2011519671, JP2008528217 T2, JP2008528217, JP2008528207 T2, JP2008528207, JP2006320546 A2, JP2006320546, JP2005137454 A2, JP2005073798 A2, JP2005073798, JP08140980, CN101559002 A,

Forward Citations: WO16200811, WO16172278, WO16058844, WO16044693, WO15168361, WO15116954, WO14175698, WO14136045, WO13082259, USD759246, USD752747, USD751199, USD737440, USD736922, USD735333, USD735332, US9592035, US9463001, US9351710, US9332970, US9237883, US9101347, US2015216545, US2014114210, US2013131548, US2012157880, KR101513228, KR101362842, EP3009075,

Abstract:
Source: US2011208089A A biopsy device includes coaxially disposed inner and outer needles in which the outer needle tip is configured for obtaining a tissue sample. The inner surface of the outer needle includes a tissue retention feature which may include a countersink and/or a feature formed in the inner surface. The device may be configured such that the inner needle does not extend past a certain point within the outer needle.

0) US2004059304A – METHOD AND APPARATUS FOR INSERTION OF SELF–DRAI...

193) Family number: 29488507 (US2004059304A) © PatBase

Title: METHOD AND APPARATUS FOR INSERTION OF SELF–DRAINING URINE APPARATUS INTO BLADDER

Priority: SE20000004020 20001101 SE20010003123 20010920 US20000704223 20001101 US20030415616 20030428 US20030630118 20030730 WO2001SE02219 20011012

Family:

Publication number	Publication date	Application number	Application date
AU2001296116 AA	20020515	AU20010296116	20011012
EP1335769 A1	20030820	EP20010976964	20011012
SE200004020 A	20020502	SE20000004020D	20001101
SE200004020 A0	20001101	SE20000004020	20001101
SE200004020 L	20020502	SE20000004020	20001101
SE200103123 A	20030321	SE20010003123D	20010920
SE200103123 A0	20010920	SE20010003123	20010920
SE200103123 L	20030321	SE20010003123	20010920
SE517726 C2	20020709	SE20000004020	20001101
SE524085 C2	20040622	SE20010003123	20010920
US2004059304 AA	20040325	US20030630118	20030730
US2004097891 AA	20040520	US20030415616	20030428
US6626876 BA	20030930	US20000704223	20001101
US6852105 BB	20050208	US20030630118	20030730
US7041090 BB	20060509	US20010415616	20011012
WO0236192 A1	20020510	WO2001SE02219	20011012

Probable Assignee: PROSTALUND OPERATIONS AB

Assignee(s):(std)**:** BOLMSJOE MAGNUS ; PROSTALUND OPERATIONS AB

Assignee(s): PROSTALUND OPERATIONS AB HOSTBRUKSVAGEN ; SCHELIN SONNY ; PROSTALUND AB ; BOLMSJO MAGNUS

Inventor(s):(std)**:** BOLMSJO MAGNUS ; BOLMSJOE MAGNUS ; MAGNUS BOLMSJOE ; SCHELIN SONNY ; SONNY SCHELIN

Inventor(s): MAGNUS BOLMSJO

Agent(s): JOHN R

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 NE NL NO NZ PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

International class (IPC 8–9): A61F2/00 A61F2/04 A61F5/44 A61M1/00 A61M25/00 A61M27/00 A61M31/00 (Advanced/Invention); A61F2/00 A61F5/44 A61M25/00 (Core/Invention); A61F A61M (Subclass/Invention)

International class (IPC 1–7): A61B5/04 A61F5/44 A61M1/00 A61M25/00 A61M27/00 A61M5/00

CPC: A61F2/0022 A61M2025/0025 A61M2210/1085 A61M2210/1089 A61M27/008 A61F2/04 A61M25/0017 A61F5/44 A61M25/00 A61M2202/0496

European class: A61F2/00B4 A61F2/04 A61F5/44 A61M25/00 A61M25/00H A61M27/00C3 K61M210/10K4 K61M210/10K6 K61M25/00R1B

US class: 600/574 604/104 604/171 604/317 604/317S 604/327 604/327P 604/525 604/530 604/544 604/95.04

Classification Explorer

Cited documents: US6656146 BA, US6648863 BB, US6648863 BA, US6648863 B1, US6626876 BA, US6524268 BB, US6524268 BA, US6524268 B1, US6368340 BB, US6368340 BA, US6368340 B1, US6048329 A, US5941849 A, US5738654 A, US5489269 A, US5176664 A, US4790810 A, US2003191450 AA, US2002004644 AA, US2001049490 AA, EP0733379 A1, EP0542246 A1, DE3517813 A1,

Forward Citations: WO09054720, WO09054720, WO08010001, WO04056290, US9248058, US9233232, US9078997, US9033149, US8998882, US8864730, US8758329, US8328792, US8287602, US8123705, US7670331, US7666133, US7662145, US7041090, US6852105, US2015142127, US2012239004, US2011040290, US2010324540, US2009156977, US2009024091, US2007093880, US2006290220, US2006195009, US2006111691, US2004097891, US2004059304, JP2009511114,

Abstract:
Source: US2004059304A A device for the drainage of the bladder through the body's own urethra opening outside of the human body, comprising a tube−shaped body (10). The tube−shaped body is comprised: to assume a first contracted position and for taken up within the bladder as well as a to assume a second partially extended position. At least one thread (14) extends between the bladder and an opening of the urethra and is attached at a first end of the tube−shaped body so that the tube−shaped body can be extended from the first position to the second position during the application of a pulling force upon the thread. The tube−shaped body in the second partially extended position extends in such a manner so as to exceed the distance between the bladder and the point of the urethra's closing. The tube−shaped body is comprised in such a manner that it will return to the first position upon the release of the pulling force on the thread. The device is inserted into the bladder, in that a tube−shaped body is extended and inserted into an extended tube−shaped introducing member. The introducing member is inserted in through the urethra, so that the end piece of the tube−shaped body enters the bladder. The tube−shaped body is pushed out of the tube−shaped introducing member and into the bladder during the course of which it returns to the first contracted position completely within the bladder and in the course of which the placement of a thread that is attached to the tube−shaped body and that extends outside of the urethra is left to remain.

0) US4768507A – INTRAVASCULAR STENT AND PERCUTANEOUS INSERTION ...

194) Family number: 8978644 (US4768507A) © PatBase

Title: INTRAVASCULAR STENT AND PERCUTANEOUS INSERTION CATHETER SYSTEM FOR THE DILATION OF AN ARTERIAL STENOSIS AND THE PREVENTION OF ARTERIAL RESTENOSIS

Priority: EP19930250022 19870213 US19860832216 19860224 US19870093110 19870831 WO1987US00290 19870213

Family:

Publication number	Publication date	Application number	Application date
DE3786721 D1	19930902	DE19873786721	19870213
EP0257091 A1	19880302	EP19870901864	19870213
EP0257091 A4	19891120	EP19870901864	19870213
EP0257091 B1	19930728	EP19870901864	19870213
EP0556940 A1	19930825	EP19930250022	19870213
US4768507 A	19880906	US19870093110	19870831
WO8704935 A1	19870827	WO1987US00290	19870213

Probable Assignee: MEDINNOVATIONS INC A CORPP OF MARYLAND

Assignee(s):(std)**:** FISCHELL ROBERT ; FISCHELL TIM A ; MEDINNOVATIONS INC

Assignee(s): MEDINNOVATIONS INC A CORPP OF MARYLAND ; FISCHELL ROBERT E

Inventor(s):(std)**:** FISCHELL ROBERT E ; FISCHELL TIM A

Designated states: AT BE CH DE FR GB IT JP LI LU NL SE

International class (IPC 8–9)**:** A61F2/06 A61F2/82 A61F2/84 A61F2/88 A61L31/08 A61L31/10 A61M29/00 (Advanced/Invention); A61F2/00 (Advanced/Non–invention)

International class (IPC 1–7)**:** A61B17/00 A61F2/06 A61M29/00

CPC: A61F2/0077 A61F2/82 A61F2/88 A61F2/95 A61F2/958 A61F2002/9665 A61L31/084 A61L31/10 A61F2210/0076

European class: A61F2/06S A61F2/06S2 A61F2/06S2B A61F2/06S6C A61F2/82 A61F2/88 A61F2/95 A61F2/958 A61L31/08B2 A61L31/10 K61F2/00L K61F2/06S2B K61F2/958 K61F2/966B

US class: 128/303R 128/341 623/1.11

Classification Explorer

Cited documents: US4655771 A, US4649922 A, US4553545 A, US4512338 A, US4503569 A, US4300244 A, US3952747 A, US1767785 A, FR2570288 A1, FR1602513 A,

Forward Citations: WO9857706, WO9818408, WO9748343, WO9709932, WO9639998, WO9639998, WO9626682, WO9530384, WO9530384, WO9505132, WO9426174, WO9421309, WO9322986, WO9116005, WO9107928, WO08002632, WO08002632, WO04087006, WO04087006, WO03061527, WO0197717, WO0197687, WO0185062, WO0056249, USRE42758, USRE40122, USD458679, US9636116, US9629736, US9629687, US9622754, US9622753, US9610181, US9610073, US9597212, US9585783, US9585776, US9585725, US9585669, US9579225, US9579129, US9561122, US9549835, US9545268, US9532888, US9486227, US9468442, US9463105, US9463012, US9452070, US9451965, US9445926, US9439642, US9421005, US9408730, US9408729, US9393022, US9393021, US9381104, US9364586, US9358325, US9333279, US9320590, US9314248, US9301831, US9295571, US9295570, US9295568, US9283099, US9278020, US9271779, US9271766, US9271741, US9259341, US9248034, US9247942, US9237944, US9226828, US9204983, US9198785, US9198666, US9192395, US9179918, US9173733, US9173650, US9173647, US9157174, US9155647, US9155609, US9155544, US9149610, US9149374, US9149281, US9149277, US9144509, US9144508, US9138222, US9125765, US9125659, US9114039, US9114038, US9114001, US9108028, US9107669, US9101949, US9101501, US9095416, US9095344, US9095343, US9095342, US9089332, US9089323, US9084669, US9078778, US9072820, US9072623, US9067362, US9060886, US9060767, US9050205, US9038260, US9034029, US9023095, US9023094, US9017351, US8984733,

US8974516, US8974509, US8966733, US8945206, US8932330, US8926681, US8925177, US8920484, US8920358, US8900618, US8900289, US8900285, US8888806, US8882698, US8876881, US8876880, US8876876, US8870908, US8870806, US8864841, US8864817, US8846070, US8845699, US8845687, US8834405, US8814902, US8808350, US8808342, US8808329, US8801773, US8801647, US8790388, US8790363, US8778256, US8771219, US8758428, US8752268, US8752267, US8747879, US8747878, US8747597, US8747452, US8747439, US8741379, US8739382, US8728147, US8728143, US8728142, US8709062, US8696729, US8696728, US8696701, US8679172, US8668662, US8663313, US8657870, US8652163, US8641748, US8637110, US8636760, US8628583, US8628564, US8623067, US8622739, US8617234, US8617208, US8617185, US8603530, US8603157, US8596215, US8592036, US8585754, US8579954, US8568469, US8568467, US8562665, US8556962, US8540759, US8535372, US8535345, US8512395, US8496657, US8496615, US8491647, US8486153, US8486135, US8475518, US8475515, US8470014, US8469943, US8465789, US8449905, US8449597, US8439965, US8435550, US8425591, US8425451, US8419788, US8414642, US8414635, US8398701, US8394119, US8382825, US8348992, US8343530, US8337543, US8333000, US8318078, US8317854, US8303669, US8303609, US8298256, US8298215, US8293367, US8293260, US8282677, US8273116, US8273101, US8267985, US8262723, US8257433, US8257421, US8241554, US8236048, US8236042, US8236041, US8231667, US8221505, US8221491, US8221488, US8221487, US8221440, US8221112, US8216209, US8211159, US8211085, US8206427, US8202528, US8197879, US8197532, US8197531, US8197530, US8197528, US8192482, US8173062, US8172897, US8162977, US8162871, US8158670, US8157856, US8152819, US8147534, US8142489, US8137301, US8128688, US8128687, US8114146, US8109994, US8109988, US8100918, US8099849, US8097642, US8096966, US8092512, US8087923, US8080051, US8075609, US8075606, US8067022, US8057529, US8057420, US8052742, US8048448, US8048441, US8043553, US8034287, US8029555, US8025692, US8021414, US8021410, US8017237, US8016879, US8016869, US8016852, US8007529, US8007527, US8003156, US7998404, US7989018, US7988720, US7981163, US7976648, US7976488, US7972342, US7971333, US7967998, US7967829, US7967820, US7964210, US7959940, US7959857, US7955381, US7955379, US7951194, US7951185, US7951064, US7947207, US7946019, US7942919, US7942892, US7938843, US7935073, US7923022, US7918815, US7918011, US7906133, US7905914, US7901453, US7901452, US7901449, US7896914, US7896539, US7886419, US7879072, US7875283, US7875233, US7867547, US7867275, US7862609, US7862608, US7862602, US7854750, US7846202, US7846198, US7842737, US7837643, US7833548, US7829008, US7823263, US7820193, US7819836, US7815670, US7815591, US7815589, US7811622, US7811317, US7806925, US7799070, US7794776, US7794495, US7785361, US7780720, US7780680, US7780095, US7778684, US7776054, US7771463, US7771382, US7766973, US7766960, US7766956, US7766861, US7763198, US7761968, US7758881, US7758535, US7757543, US7753950, US7753285, US7749234, US7740791, US7740637, US7739781, US7731890, US7708548, US7699890, US7699884, US7695446, US7691141, US7691078, US7682330, US7678068, US7670364, US7666216, US7662326, US7658880, US7655039, US7651529, US7651521, US7645275, US7632307, US7632302, US7632300, US7625410, US7622135, US7622070, US7611532, US7607208, US7604700, US7597775, US7582108, US7578838, US7578826, US7575582, US7563324, US7553377, US7550005, US7544673, US7541048, US7534256, US7527651, US7527632, US7517361, US7513907, US7510570, US7500988, US7491224, US7476245, US7470283, US7442402, US7435255, US7425291, US7419696, US7416558, US7413574, US7410665, US7390333, US7381048, US7371257, US7344490, US7329366, US7326241, US7326237, US7326225, US7323189, US7316710, US7316701, US7314483, US7312299, US7309351, US7303580, US7301001, US7300662, US7297758, US7297159, US7291166, US7285304, US7273494, US7267685, US7267684, US7258891, US7258753, US7258697, US7255707, US7244319, US7232421, US7229473, US7229472, US7229471, US7223286, US7217290, US7217286, US7208013, US7204847, US7201769, US7198675, US7198613, US7186789, US7172617, US7160238, US7147618, US7144422, US7128753, US7118600, US7112226, US7105018, US7101392, US7094255, US7094254, US7081130, US7077860, US7070608, US7066931, US7066872, US7060089, US7014616, US7008667, US7001422, US6997949, US6986784, US6981985, US6981964, US6966892, US6962603, US6960227, US6955688, US6955685, US6949119, US6949117, US6949083, US6942692, US6923828, US6918869, US6913619, US6913618, US6908622, US6908479, US6908466, US6899729, US6896699, US6896698, US6896697, US6893458, US6890339, US6887268, US6887264, US6887235, US6881223, US6881216, US6875229, US6872218, US6869443, US6860899, US6858037, US6855160, US6855155, US6849086, US6846323, US6843802, US6835185, US6833003, US6827733, US6818014, US6814746, US6814561, US6802858, US6802849, US6796997,

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Abstract:
Source: US4768507A This invention is in the field of percutaneous insertion catheters that are used for placing a coil spring stent into a vessel of a living body for the purposes of enhancing luminal dilation, preventing arterial restenosis and preventing vessel blockage resulting from intimal dissection following balloon and other methods of angioplasty. The stent can also be used for the maintaining patency of many different ducts or vessels within a living body.

0) US4655938A – PROCESS AND CONTRIVANCE FOR THE REGENERATION OF...

195) Family number: 2144966 (US4655938A) © PatBase

Title: Process and contrivance for the regeneration of lubricating oils

Priority: IT19810061160 19810603 IT19810067760 19810603 US19820384429 19820602

Family:

Publication number	Publication date	Application number	Application date
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SE450751 C	19871105	SE19820003370	19820601
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SE8203370 L	19821204	SE19820003370	19820601
US4655938 A	19870407	US19850705994	19850227

Probable Assignee: RE MAC UT S P A

Assignee(s):(std)**:** COSTA GIORGIO ; FRAGOLA GUGLIELMO ; FRAGOLA GUGLIELMO E COSTA GIOR ; FUREGORA GIYUGURIERUMO ; RE MAC UT SPA ; GUGLIELMO FRAGOLA EN GIORGIO C ; RE MAC UT S P A ; KOSUTA GIORUGIO

Assignee(s): GIORGIO COSTA ; GUGLIELMO FRAGOLA ; RE MAC UT ; NRE MAC UT 10090 CASCINE VICA RIVOLI TORINO ITALY ; COSTA GIORGIA ; COSTA GIORGIA 10128 TORINO ITALY VIA VICO 13 ; NRE MAC UT ; FRAGOLA GUGLIELMO E COSTA GIORGIO

Inventor(s):(std)**:** FRAGOLA G ; FRAGOLA GUGLIELMO ; FUREGORA GIYUGURIERUMO

Inventor(s): G FRAGOLA ; GUGLIELMO FRAGOLA

International class (IPC 8–9)**:** B01D29/00 B01D29/66 B01D29/68 B01D35/02 B01D35/26 B01D37/00 C10G31/09 C10M175/00 F01M1/10 F01M11/00 F01M11/03 F16N39/06 (Advanced/Invention); C10N40/25 (Advanced/Non–invention); B01D29/00 B01D29/66 B01D35/00 B01D37/00 C10G31/00 C10M175/00 F01M1/00 F01M11/00 F01M11/03 F16N39/00 (Core/Invention); C10M (Subclass/Invention)

International class (IPC 1–7)**:** B01D29/00 B01D29/38 B01D35/26 B01D37/00 C10M11/00 F01M1/10 F01M11/00 F01M11/03 F16N39/06

CPC: B01D25/36 B01D29/48 B01D29/668

European class: B01D25/36 B01D29/48 B01D29/66V

US class: 210/108 210/167.02 210/411 210/416.5 210/421 210/798 210/799 210/805

Classification Explorer

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Forward Citations: US6616848, US6517725, US6478953, US5814214, US2005230293, EP0674932, DE3728607,

Abstract:
Source: US4655938A A process and apparatus for the regeneration in operation of lubricating oils having a first stage in which a flow of oil passes through a filtering surface, then a second and third stage in which a portion of the flow of oil is intercepted and sent countercurrently under a pre−established overpressure to the first stage flow and finally, a fourth stage for varying the position of delivery countercurrent to the filtering surface.

0) US2001051801A – CRYOSURGICAL CATHETER

196) Family number: 29993518 (US2001051801A) © PatBase

Title: CRYOSURGICAL CATHETER

Priority:

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US19970807382 19970227 US19970893825 19970711 US19980201071 19981130
US20010850668 20010507 US20020016190 20020312 US20010845535 20010430
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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: MEDTRONIC CRYOCATH LP

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Inventor(s): LALONDE ; L AND UUML CKGE CLAUDIA ; LUECKGE

Agent(s): RIDOUT AND MAYBEE LLP; MBM INTELLECTUAL PROPERTY LAW LLP; MODIANO MICAELA NADIA; CASEY LINDSAY JOSEPH; CASEY LINDSAY JOSEPH ET AL; CHRISTOPHER AND WEISBERG PA; JOHN CHRISTOPHER CHRISTOPHER AND WEISBERG PA

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

International class (IPC 8–9): A61B18/02 A61B18/18 A61B5/04 A61F7/00 A61F7/12 A61M25/00 (Advanced/Invention); A61B17/00 A61B17/22 A61B18/00 A61B19/00 A61B5/042 A61F7/02 A61M25/00 (Advanced/Non–invention); A61B18/00 A61B18/18 A61B5/04 (Core/Invention); A61B17/00 A61B17/22 A61B19/00 A61B5/0408 A61F7/02 A61M25/00 (Core/Non–invention)

International class (IPC 1–7): A61B17/36 A61B18/02 A61B18/18 A61F7/00 A61M25/00

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Abstract:
Source: US2001051801A A cryogenic catheter includes an outer flexible member having at least one cryogenic fluid path through the flexible member. The at least one fluid path is defined by a plurality of flexible members disposed within the outer flexible member.

0) US2001016675A – STRESS REDUCTION APPARATUS AND METHOD

197) Family number: 29993406 (US2001016675A) © PatBase

Title: Stress reduction apparatus and method

Priority:

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Abstract:
Source: US2001016675A The device and method for reducing heart wall stress. The device can be one which reduces wall stress throughout the cardiac cycle or only a portion of the cardiac cycle. The device can be configured to begin to engage, to reduce wall stress during diastolic filling, or begin to engage to reduce wall stress during systolic contraction. Furthermore, the device can be configured to include at least two elements, one of which engages full cycle and the other which engages only during a portion of the cardiac cycle.

198) Family number: 50915237 (US2012323253A) © PatBase

Title: DEVICE AND METHOD FOR POSITIONING AN ELECTRODE IN TISSUE

Priority: JP20130530158T 20110829 JP20160115990 20160610 US20100412992P 20101112 US20100420060P 20101206 US20100427306P 20101227 US20100387185P 20100928 US20110445992P 20110223 US20110219874 20110829 US20110501450P 20110627 WO2011US49499 20110829 US20150707246 20150508 US20140990998P 20140509 US20150708792 20150511 WO2015US29890 20150508

Family:

Publication number	Publication date	Application number	Application date
AU2011312739 AA	20120412	AU20110312739	20110829
AU2011312739 BB	20150611	AU20110312739	20110829
AU2015255814 AA	20151112	AU20150255814	20150508
CA2812532 AA	20130325	CA20112812532	20110829
CN106659880 A	20170510	CN201580037031	20150508
EP2621583 A1	20130807	EP20110831130	20110829
EP2621583 A4	20140507	EP20110831130	20110829
EP2621583 B1	20170405	EP20110831130	20110829
EP3139994 A2	20170315	EP20150788891	20150508
JP2013537835 T2	20131007	JP20130530158T	20110829
JP2016179200 A2	20161013	JP20160115990	20160610
US2012323253 AA	20121220	US20110219874	20110829
US2015320330 AA	20151112	US20150707246	20150508
US2015343201 AA	20151203	US20150708792	20150511
WO12047408 A1	20120412	WO2011US49499	20110829
WO15172023 A2	20151112	WO2015US29890	20150508
WO15172023 A3	20160204	WO2015US29890	20150508

Probable Assignee: BOARD OF TRUSTEES OF LELAND STANFORD JUNIOR UNIV

Assignee(s):(std)**:** BOARD OF TRUSTEES OF LELAND STANFORD JUNIOR UNIV ; GARAI ELLIS ; SWAMINATHAN ARAVIND ; UNIV LELAND STANFORD JUNIOR ; BIOTRACE MEDICAL INC

Assignee(s): THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY ; UNIV LELAND STANFORD JR

Inventor(s):(std)**:** ARAVIND SWAMINATHAN ; DIETCH LAURA ; ELLIS GARAI ; GARAI ELLIS ; SICOTTE MARCEL ; SPARKS KURT ; SWAMINATHAN ARAVIND

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; SMART AND BIGGAR; BOULT WADE TENNANT; VIENNE AYMERIC CHARLES EMILE; INO SARI; KURASAWA ICHIRO; MATSUSHITA MITSURU; DESHIMARU TAKESHI; KUMAKURA YOSHIO; SCHOX JEFFREY; CHAN DARBY 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

International class (IPC 8–9): A61B17/50 A61B19/00 A61B5/042 A61B6/12 A61N1/00 A61N1/05 A61N1/372 (Advanced/Invention)

CPC: A61N1/057 A61B2562/0209 A61N2001/0578 A61B5/0422 A61B5/686 A61B5/6879 A61B6/12 A61N2001/058 A61N1/0573 A61N1/36017 A61N1/0558 A61B5/0215 A61B5/024 A61B5/042 A61B2017/22071 A61B2090/3966

European class: A61N1/05N4

US class: 600/375 600/424 606/129 607/126

Classification Explorer

Cited documents: WO09135080 A1, US8467875 BB, US7526342 BB, US7099718 BA, US6942613 BB, US6163728 A, US6055457 A, US5871531 A, US5476500 A, US5336252 A, US2013325093 AA, US2013188291 AA, US2012323253 AA, US2012123531 AA, US2011004148 AA, US2010204560 AA, US2010198041 AA, US2009306549 AA, US2009259272 AA, US2009248095 AA, US2008183267 AA, US2008132981 AA, US2008109054 AA, US2008103576 AA, US2008103575 AA, US2008077217 AA, US2008051847 AA, US2007213798 AA, US2007208357 AA, US2007051377 AA, US2005251238 AA, US2004158143 AA, US2003212446 AA, US2003153905 AA, US2003149331 AA, JP2010516436 T2, JP2010515537 T2, JP2004510507 T2, JP2002542891 T2,

Forward Citations: WO15172023, USD770616, USD765243, US9669210, US9668765, US9649489, US9610435, US9603618, US9533141, US9474906, US9456872, US9421384, US9413896, US9291663, US9289226, US9283040, US9186501, US9028520, US8961551, US2016001060, US2014288616, EP2792383,

Abstract:
Source: US2012323253A A device for positioning an electrode in tissue includes: a lead body having a distal portion; an electrode array coupled to the lead distal portion; an anchoring element having an anchor tip and being operable in a first configuration in which the anchor tip is retracted within the lead and in a second configuration in which the anchor tip is extended outside the lead and configured to fixate within the tissue; and a displacement mechanism that is actuated to bias the electrode array or the anchoring element toward the tissue. A method for positioning an electrode in tissue includes: navigating, to the tissue, a lead with an electrode array, an anchoring element with a distal anchor tip, and a displacement mechanism; biasing the electrode array and anchoring element towards the tissue with the displacement mechanism; and deploying the anchoring element, and verifying fixation of the anchor tip within the tissue.

0) US2016336813A – MIDFIELD COUPLER

199) Family number: 60908102 (US2016336813A) © PatBase

Title: MIDFIELD COUPLER

Priority: US20140994960P 20140518 US20150244495P 20151021 US20160208108 20160712 US20160200543 20160701 US20160208155 20160712 US20150264239P 20151207 US20160291379P 20160204 US20160350674P 20160615 US20160350676P 20160615 US20160350681P 20160615 US20160350684P 20160615 US20160367995P 20160728 US20160368005P 20160728 US20160373569P 20160811 WO2015US30995 20150515 US20160396478P 20160919 US20160397620P 20160921

Family:

Publication number	Publication date	Application number	Application date
US2016336813 AA	20161117	US20160208108	20160712
US2016344238 AA	20161124	US20160208155	20160712
US2016344240 AA	20161124	US20160200543	20160701
US9564777 BB	20170207	US20160208155	20160712
US9583980 BB	20170228	US20160200543	20160701
WO15179225 A1	20151126	WO2015US30995	20150515
WO17070372 A1	20170427	WO2016US57952	20161020

Probable Assignee: NEUSPERA MEDICAL INC

Assignee(s):(std)**:** MORRIS MILTON M ; NEUSPERA MEDICAL INC ; YEH ALEXANDER JUESHYAN

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Agent(s): SCHWEGMAN LUNDBERG AND WOESSNER PA; MADDEN ROBERT B ET AL; PERDOK MONIQUE M 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 DJ 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 KW KZ LA LC 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

International class (IPC 8–9): A61B18/14 A61B18/18 A61B5/00 A61B5/04 A61M31/00 A61N1/08 A61N1/18 A61N1/32 A61N1/36 A61N1/372 A61N1/375 A61N1/378 A61N1/40 H01F27/42 H01F37/00 H01F38/00 H02J50/12 H02J50/20 H02J50/23 H02J50/27 H02J50/80 H02J7/02 (Advanced/Invention); A61B18/00 (Advanced/Non–invention)

CPC: A61B18/14 H02J7/025 H02J50/80 A61B2560/0219 A61N1/3601 A61N1/3605 A61B5/686 A61M31/002 A61B2018/00577 A61B2018/1838 A61B18/18 A61N1/37229 H02J50/23 A61B5/076 H02J50/10 H02J50/40 H02J50/90 A61N1/3787 H02J50/20 H02J50/12 A61B5/04 A61N1/08 A61N1/18 A61N1/32 A61N1/372 A61N1/40

US class: 307/104 607/61

Classification Explorer

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Forward Citations: WO17070372, US9662507, US9630015, US9610457, US9583980, US9564777, EP3046621,

Abstract:
Source: US20163368l3A Described herein are devices, systems, and methods for wireless power transfer utilizing a midfield source and implant. In one variation, a midfield source may be realized by a patterned metal plate composed of one of more subwavelength structures. These midfield sources may manipulate evanescent fields outside a material (e.g., tissue) to excite and control propagating fields inside the material (e.g., tissue) and thereby generate spatially confined and adaptive energy transport in the material (e.g., tissue). The energy may be received by an implanted device, which may be configured for one or more functions such as stimulation, sensing, or drug delivery.

0) DE19622184A1 – PORTABLE DEVICE FOR LONG TERM PERFUSION OF HUMA...

200) Family number: 17998685 (DE19622184A1) © PatBase

Title: PORTABLE DEVICE FOR LONG TERM PERFUSION OF HUMAN AND ANIMAL TISSUE E.G. HEART LUNG KIDNEY AND LIVER MACHINE

Priority: DE19961022184 19960603

Family:

Publication number	Publication date	Application number	Application date
DE19622184 A1	19971204	DE19961022184	19960603

Probable Assignee: MARTENS JOERN

Assignee(s):(std)**:** MARTENS JOERN

Assignee(s): MARTENS JOERN 27711 OSTERHOLZ SCHARMBECK DE

Inventor(s):(std)**:** MARTENS JOERN

Inventor(s): MARTENS JOERN 27711 OSTERHOLZ SCHARMBECK DE

International class (IPC 8–9): A61M1/10 A61M1/36 (Advanced/Invention); A61M1/10 A61M1/36 (Core/Invention)

International class (IPC 1–7): A61B5/14 A61H39/00 A61M1/00 A61M1/10 A61M1/14 A61M1/36 A61M25/00 A61M29/00 A61M39/22 F04B23/00 F04B43/00 G06F159/00 G06F19/00

CPC: A61M1/10 A61M1/26 A61M1/3621

European class: A61M1/10 A61M1/36C

Classification Explorer

Forward Citations: US8419671, US7699792, GB2427556, DE10261575, DE102005015173, DE102004023642, CN104800902,

Abstract:
Source: DE19622184A1 The device has a blood pump (1) which pumps the perfusion fluid e.g. blood from a large circuit with organ containers for the organs to be perfused, into a small circuit with an oxygenator (6) for gas exchange. The blood pump (1) also pumps back from the small circuit to the large circuit. The device also includes an easily exchangeable, blood conveying, re–usable organ container (OHB). The organs which replace the natural organs e.g. the heart, lungs, kidney and liver, such as the blood pump (1), oxygenator (6), dialyser (7) and liver substitute organ (10) all have small dimensions and weight and are combined together into a portable device and are driven together. These artificial organs are connected together for uninterrupted ventilation with uninterrupted blood flow although the organs can be used individually or together as required. The organs are arranged for uninterrupted, optimal blood flow. To reduce the required blood pressure of the pump (1) the organs e.g. active oxygenator (6) have their own internal pump and recycling function. The surfaces over which blood pass have pores along their length. Through these pores, with high hydraulic resistance preventing the blood passing through, an active blood thickening substance is added to the blood. The flow rate of the blood in the problematic area of the artificial blood vessel wall is thus increased within strict limits. The blood pump (1) and the blood conveying parts, the separately exchangeable liver module, the battery and the computer with keyboard are easily replaceable components of the device to provide a live support perfusion function. These artificial organs (6,7,10) can also be fitted into a safe, self controlling light device in a compact housing (56).

0) US2002045852A – METHOD FOR CHANGING THE TEMPERATURE OF A SELECT...

201) Family number: 30113007 (US2002045852A) © PatBase

Title: METHOD FOR CHANGING THE TEMPERATURE OF A SELECTED BODY REGION

Priority:

AU19910077738 19910419
US19900522178 19900511
US19920929305 19920813
US19930059725 19930510
US20020184889 20020701
US20020259117 20020927
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US19940287114 19940808
US20020229243 20020826
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US20050282329 20051118
US20040017710 20041222
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US20100924933 20101008
US20050167036 20050624

Family:

Publication number	Publication date	Application number	Application date
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US8663191 BB	20140304	US20120573209	20120830
WO9117788 A1	19911128	WO1991US02719	19910419

Probable Assignee: VENTION MEDICAL ADVANCED COMPONENTS INC

Assignee(s):(std): ADVANCED POLYMERS INC ; MARK A SAAB ; RADIANT MEDICAL INC ; SAAB MARK A ; SAAB MARK ; ZOLL CIRCULATION INC

Assignee(s): VENTION MEDICAL ADVANCED COMPONENTS INC ; VENTION MEDICAL ADVANCED COMPONENTS INC WAS KNOWN AS ADVANCED POLYMERS INC.. ; BAY CITY CAPITAL FUND IV LP ; MADISON CAPITAL FUNDING LLC ; MADISON CAPITAL FUNDING LLC AGENT AS

Inventor(s):(std): SAAB MARK A ; SAAB MARK ; MARK A SAAB

Agent(s): MACRAE AND CO; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC; ANDOVER–IP–LAW, SUITE 300; ANDOVER IP LAW SUITE 300; ANDOVER–IP–LAW; ANDOVER IP LAW; DAVID; DAVID SILVERSTEIN ANDOVER–IP–LAW; DAVID SILVERSTEIN ANDOVER IP LAW; ONELLO AND MELLO LLP

Designated states: AT AU BE CA CH DE DK ES FR GB GR IT JP LI LU NL SE

International class (IPC 8–9): A61B17/22 A61F2/958 A61F7/00 A61F7/12 A61M25/00 A61M25/10 A61M25/14 A61M25/16 A61M29/00 A61M29/02 A61M31/00 B29C55/26 (Advanced/Invention); A61B17/22 A61F7/00 (Advanced/Non–invention); A61F7/12 A61M25/00 A61M29/02 (Core/Invention); A61B17/22 A61F7/00 (Core/Non–invention)

International class (IPC 1–7): A61F7/00 A61F7/06 A61F7/12 A61H29/00 A61M25/10 A61M29/00 A61M29/02 A61M3/00 B29C35/02

CPC: A61B2017/22051 A61B2018/00166 A61F7/123 A61F2007/0054 A61F2007/126 A61M25/0026 A61M25/1029 A61M25/1036 A61M25/1038 A61M29/02 A61M2025/0025 A61M2025/0042 A61M2025/1086 A61M2025/1093 A61M25/0009 A61M25/0029 A61M25/0032 A61M25/1027 A61M25/104 A61M2025/0031 A61M2025/0034 A61M2025/0036 A61M2025/1031 A61M2025/1072 A61M2025/1075

European class: A61F7/12B A61M25/00G A61M25/00R1M A61M25/00R1M4 A61M25/00R1M8 A61M25/10G A61M25/10G1 A61M25/10G3 A61M25/10P A61M29/02 K61B17/22H K61B18/00B8 K61F7/00C K61F7/12D K61M25/00R1B K61M25/00R1M10 K61M25/00R1M14 K61M25/00R1M6H K61M25/00R1M8 K61M25/00R3 K61M25/10G K61M25/10G1A K61M25/10G4 K61M25/10Z13 K61M25/10Z14 K61M25/10Z19 K61M25/10Z22

US class: 264/521 425/526 604/101.04 604/101.040S 604/103.13 604/113 604/113P 604/113S 604/264 604/43 604/43P 604/43S 604/45 604/45P 604/508 604/508S 604/509 604/509P 604/523 604/533 604/533S 604/913 604/96 604/96.01 604/96.010P 604/96.010S 606/192 606/192P 606/194 606/21 606/22 606/27 606/28 606/31 607/105 607/105P 607/105S 607/106 607/113 607/113P 607/96

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US2006100572, US2006089689, US2006084962, US2006079835, US2006074400, US2006058859, US2006036303, US2006036233, US2006030910, US2006025840, US2006015093, US2006009752, US2006004325, US2005273145, US2005273144, US2005251195, US2005251108, US2005245943, US2005240250, US2005240117, US2005240074, US2005228368, US2005228318, US2005226991, US2005222653, US2005222650, US2005222517, US2005218563, US2005215989, US2005209658, US2005209587, US2005203462, US2005191585, US2005187612, US2005187544, US2005182396, US2005182395, US2005182354, US2005182352, US2005171586, US2005159673, US2005154430, US2005152844, US2005143798, US2005143727, US2005137618, US2005131500, US2005124932, US2005119648, US2005107741, US2005106710, US2005104059, US2005096715, US2005090806, US2005085684, US2005076924, US2005075705, US2005065498, US2005049552, US2005046092, US2005038421, US2005038381, US2005033225, US2005027290, US2005027281, US2005015107, US2005004636, US2005004522, US2004267339, US2004267249, US2004260328, US2004249338, US2004249337, US2004243199, US2004243156, US2004240660, US2004236314, US2004230264, US2004225342, US2004225318, US2004220648, US2004220523, US2004215048, US2004210298, US2004210281, US2004210187, US2004204705, US2004199230, US2004199229, US2004199114, US2004192999, US2004186467, US2004167593, US2004167467, US2004167466, US2004158191, US2004147987, US2004147939, US2004147914, US2004143311, US2004143287, US2004143249, US2004133256, US2004127851, US2004116987, US2004111138, US2004106969, US2004106901, US2004106900, US2004106899, US2004103987, US2004103518, US2004102827, US2004102825, US2004098017, US2004098015, US2004097878, US2004097778, US2004097777, US2004092787, US2004087934, US2004064152, US2004064150, US2004050154, US2004049250, US2004049176, US2004044358, US2004044334, US2004039431, US2004034321, US2004030349, US2004025520, US2003229384, US2003229259, US2003220649, US2003195628, US2003195597, US2003195465, US2003187489, US2003181896, US2003181864, US2003167034, US2003144714, US2003130651, US2003125721, US2003097124, US2003078641, US2003078613, US2003065922, US2003060863, US2003060800, US2003060761, US2003040782, US2003028230, US2003023288, US2003018375, US2002193853, US2002183780, US2002156451, US2002151845, US2002133142, US2002132072, US2002111584, US2002082547, US2002068928, US2002045855, US2002026187, US2001007951, US2001007071, TWI482939, JP5778427, JP4738595, JP2015163219, JP2014069034, JP2011513031, JP2011509698, JP2010158531, JP2008504067, JP2007190430, JP2003507119, JP2002523138, GB2492643, EP2944338, EP2929862, EP2730301, EP2474340, EP2305340, EP2305188, EP2260802, EP2260802, EP2241284, EP1885431, EP1820480, EP1808151, EP1792591, EP1788988, EP1259203, EP1253891, EP1205167, EP1180005, EP1107714, EP1104273, EP1066003, EP1039838, EP1029520, EP0954350, EP0549100, DE102013104021, DE102013104020, CN104546279, CN103260547, CN103260547, AU763293, AU760464, AU758431, AU756941, AU756941, AU748985, AU734506, AU734506, AU2008234970, AU2006201614, AU2006200081, AU2005221602, AU2001271888, AU2001233337, AU2001229561,

Abstract:
Source: US2002045852A Heat transfer catheter apparatus and methods of making and using same are disclosed wherein fluid connection means is provided between the distal portions of two adjacent, thin−walled, high strength fluid lumens to define a closed loop fluid circulation system capable of controlled delivery of thermal energy to or withdrawal of thermal energy from remote internal body locations.

0) US2006253184A – SYSTEM FOR THE CONTROLLED DELIVERY OF STENTS AN...

202) Family number: 33601859 (US2006253184A) © PatBase

Title: SYSTEM FOR THE CONTROLLED DELIVERY OF STENTS AND GRAFTS

Priority: US20050121386 20050504 US20070654193 20070117 WO2006US15561 20060425

Family:

Publication number	Publication date	Application number	Application date
AU2006242619 AA	20061109	AU20060242619	20060425
AU2007221939 AA	20080731	AU20070221939	20071010
BRPI0611054 A2	20100810	BR2006PI11054	20060425
BRPI0705909 A	20080902	BR2007PI05909	20071101
CA2606623 AA	20071031	CA20062606623	20060425
CN101212938 A	20080702	CN200680024286	20060425
CN101234034 A	20080806	CN200810003311	20080116
CO6060070 A1	20090731	CO20080004278	20080117
EA200702321 A1	20080428	EA20070002321	20060425
EA200800085 A1	20080829	EA20080000085	20080117
EP1877005 A2	20080116	EP20060751323	20060425
EP1946725 A1	20080723	EP20070253916	20071003
IN02519DE2007 A	20080801	IN2007DE02519	20071130
IN08326DN2007 A	20080704	IN2007DN08326	20071029
JP2008173460 A2	20080731	JP20070312494	20071203
KR20070118181 A	20071213	KR20077025532	20071102
KR20080067952 A	20080722	KR20070132382	20071217
MX2007012826 A1	20090213	MX20070012826	20071015
MX2007013413 A1	20080118	MX20070013413	20060425
SG144794 A1	20080828	SG20070177769	20071115
US2006253184 AA	20061109	US20050121386	20050504
US2007118207 AA	20070524	US20070654193	20070117
WO06118863 A2	20061109	WO2006US15561	20060425
WO06118863 A3	20071004	WO2006US15561	20060425
WO06118863 B1	20071206	WO2006US15561	20060425
WO08088391 A2	20080724	WO2007US18569	20070822
WO08088391 A3	20081218	WO2007US18569	20070822

Probable Assignee: AGA MEDICAL CORP

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Inventor(s): KURTZ AMPLATZ ; JOHN C OSLUND ; JOHN OSLUND

Agent(s): GRIFFITH HACK; RIDOUT AND MAYBEE LLP; ERNESTO CAVELIER; CHARIG RAYMOND JULIAN; CHARIG RAYMOND JULIAN ET AL; NIKOLAI AND MERSEREAU PA; NIKOLAI THOMAS J

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 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 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

International class (IPC 8–9): A61B17/00 A61F2/06 A61F2/84 A61F2/90 A61F2/95 (Advanced/Invention); A61F2/06 A61F2/82 A61F2/84 A61F2/90 (Advanced/Non–invention); A61B17/00 A61F2/06 (Core/Invention)

International class (IPC 1–7): A61F2/00 A61F2/06

CPC: A61F2/95 A61F2/90

European class: A61F2/95 K61F2/90

US class: 623/1.11 623/1.110P 623/1.12 623/1.120P 623/1.53 623/1.530S

Classification Explorer

Cited documents: WO11121386, WO06118853 A1, WO0071058 A1, US7127789 BB, US7122050 BB, US6890337 BB, US6866679 BB, US6843802 BA, US6814746 BB, US6736840 BB, US6699274 BB, US6676693 BA, US6629981 BB, US6623518 BB, US6582460 BA, US6576006 BB, US6533807 BB, US6527802 BA, US6520983 BA, US6517570 BA, US6517547 BA, US6506204 BB, US6500203 BA, US6482227 BA, US6471718 BA, US6468303 BA, US6468301 BA, US6425898 BA, US6402772 BA, US6391050 BA, US6375676 BA, US6368339 BA, US6352553 BA, US6350278 BA, US6342068 BA, US6302893 BA, US6290721 BA, US6287331 BA, US6287329 BA, US6280464 BA, US6214036 BA, US6126685 A, US6120522 A, US6024763 A, US5957974 A, US5954729 A, US5944738 A, US5935161 A, US5860998 A, US5843090 A, US5824041 A, US5759186 A, US5725571 A, US5725552 A, US5709703 A, US5702418 A, US5697948 A, US5683451 A, US5679470 A, US5626602 A, US5607466 A, US5484444 A, US5480423 A, US5476505 A, US5449372 A, US5415664 A, US5405380 A, US5391172 A, US5201757 A, US5026377 A, US4776337 A, US4739762 A, US4733665 A, US2005090890 AA, US2003176909 AA, US2002123786 AA, US2002002396 AA, JP2003500104 T2,

Forward Citations: WO15103277, WO10011446, WO09105393, WO09105365, WO09094490, WO09042317, USD755384, US9649480, US9642993, US9629736, US9597183, US9585776, US9585747, US9579104, US9572665, US9554897, US9549835, US9545301, US9532869, US9486348, US9486336, US9480560, US9456896, US9456812, US9445799, US9445798, US9408730, US9408729, US9402634, US9358371, US9351715, US9339380, US9339379, US9339378, US9339377, US9333074, US9333073, US9302083, US9282970, US9277995, US9259225, US9232997, US9232992, US9205236, US9168105, US9149374, US9119935, US9056008, US9039752, US9039724, US9023100, US9023095, US9005155, US8974516, US8966733, US8951223, US8945171, US8940015, US8911455, US8894702, US8882697, US8876881, US8876880, US8852271, US8821529, US8808367, US8808350, US8795356, US8777974, US8752258, US8747453, US8747428, US8745845, US8740962, US8739382, US8652203, US8621975, US8591495, US8535294, US8491649, US8486137, US8475521, US8470024, US8460372, US8419788, US8414635, US8403982, US8398670, US8359721, US8353953, US8348925, US8337541, US8313505, US8241345, US8163004, US8114154, US8070799, US8057539, US7993392, US2015011873, US2012316638, US2012245668, US2011264202, US2011190862, US2011071623, US2010298755, US2010292782, US2010082089, US2010057185, US2010049307, US2010030321, US2010023048, US2010023046, US2009210047, US2009209855, US2009192518, US2009082803, US2009069886, US2008262507, US2008200945, US2008147182, US2008147180, US2007043420, RU2593055, JP5779638, JP2015510432, JP2014133126, JP2013503016, EP2617366, DE102013104565, CN105208971, CN105120807, CN104510543, CN103561686, CN103561686, CN103338809, CN103338809, CN103200906, CN103027725, CN103027725, CN102058374, CN102058374, CN101961274, CN101945620,

Abstract:
Source: US2006253184A The present invention provides a delivery mechanism for percutaneously routing a stent or graft through the vascular system and procedures for addressing an aneurysm or an otherwise damaged vessel. The delivery system includes an outer tubular guide catheter 20, an inner tubular delivery (pusher) catheter 14 coaxially disposed and slidable relative to the outer guide catheter and an elongated flexible wire or cable 26 that is coaxially insertable through the lumen of the inner tubular catheter and that has a frusto−conical bead affixed at the distal end thereof which is sized to at least partially fit within the lumen of the inner pusher catheter when a proximally directed tension force is applied between the elongated flexible wire or cable 26 with respect to the pusher catheter 14. By inserting a compressed coil spring between a proximal end portion of the pusher catheter 14 and the proximal end portion of the cable 26, the requisite clamping force is maintained to secure the stent or graft to the distal end of the pusher catheter until the compression spring force is removed. With the stent or graft clamped to the distal end of the inner pusher catheter, it can be drawn within the lumen of the outer guide catheter for delivery therewith to the target site.

0) US2007017527A – DEVICE AND METHOD FOR PLACING WITHIN A PATIENT ...

203) Family number: 34116659 (US2007017527A) © PatBase

Title: DEVICE AND METHOD FOR PLACING WITHIN A PATIENT AN ENTERAL TUBE AFTER ENDOTRACHEAL INTUBATION

Priority: US20050188821 20050725 US20090352404 20090112

Family:

Publication number	Publication date	Application number	Application date
US2007017527 AA	20070125	US20050188821	20050725
US2009125002 AA	20090514	US20090352404	20090112
US7921847 BB	20110412	US20050188821	20050725
US8863746 BB	20141021	US20090352404	20090112
WO10080746 A2	20100715	WO2010US20082	20100105
WO10080746 A3	20101021	WO2010US20082	20100105

Probable Assignee: KIM TECHNOLOGY PARTNERS LP

Assignee(s):(std)**:** INTUBIX LLC ; KIM TECHNOLOGY PARTNERS LP ; KM TECHNOLOGIES ; TOTZ KENNETH A ; TOTZ KENNETH ALAN

Assignee(s): KM TECHNOLOGY PARTNERS ; KM TECHNOLOGY PARTNERS LP

Inventor(s):(std)**:** TOTZ KENNETH A ; TOTZ KENNETH ALAN

Inventor(s): TOTZ KENNETH

Agent(s): GORDON G WAGGETT PC; GORDON G; WAGGETT GORDON G

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 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 TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): A44B1/04 A44B11/25 A44B17/00 A61J15/00 A61M16/00 A61M16/04 A61M25/00 A61M25/01 A61M25/04 A61M27/00 A61M29/00 A61M31/00 A61M37/00 (Advanced/Invention); A61M16/00 A61M16/04 A61M25/01 A61M25/02 (Core/Invention)

CPC: A61M16/04 A61J15/0003 A61J15/0023 A61J15/0073 A61M16/0415 A61M16/0418 A61M16/0434 A61M16/0479 A61M16/0486 A61M16/0488 A61M2205/32 Y10T24/3444

European class: A61M16/04 A61M16/04M K61J15/00 K61M16/04A5 K61M16/04A6 K61M16/04B K61M16/04F1B K61M16/04G

US class: 128/200.26 128/207.14 128/207.15 128/207.150P 128/207.150S 128/207.16 24/339 604/101.01 604/101.04 604/264 604/284 604/523 604/528 604/528P 604/544 604/94.01 606/192 606/193 606/194 606/195 606/196

Classification Explorer

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US2004111069 AA, US2004020491 AA, US2004000314 AA, US2003183234 AA, US2003062039 AA, US2003051734 AA, US2002162555 AA, US2001054425 AA, JP2002315832 A2, EP0230790 A2, DE19533615 C1,

Forward Citations: WO16140914, WO15042131, WO15039164, WO15013381, WO14165915, WO13189466, WO13040175, WO13040175, WO12145585, WO10060227, USD714435, USD701304, USD654166, US9597471, US9526856, US9521945, US9480806, US9480390, US9421341, US9415179, US9364628, US9220859, US9028406, US9023069, US9011328, US8998798, US8978657, US8968511, US8887730, US8887716, US8863746, US8845533, US8602030, US8597184, US8479625, US8434488, US8381730, US8291908, US8075521, US7975696, US7735489, US2015209535, US2015105621, US2014309494, US2014221750, US2014041665, US2014020682, US2013281781, US2012302833, US2012298111, US2012172664, US2012090623, US2012080037, US2012024292, US2012010627, US2012000471, US2011301587, US2011196204, US2011046653, US2011040157, US2011017208, US2010307508, US2010292716, US2010186749, US2010180737, US2010089393, US2009259309, US2009171280, US2009131785, US2009125002, US2009050146, US2008312507, US2008276932, US2008230070, US2008066746, US2007163596, JP2014210104, EP2714170, EP2341971, CN104587578, CN104080504, CN103702705, CH699985, AU2013203636,

Abstract:
Source: US2007017527A The present invention is directed to a novel device and method for providing a disposable endotracheal intubation device for use with an auxiliary passageway serving as a guide for the placement of an orogastic or other enterally directed device in a patient. The present invention pertains to a combination intubation device comprising an endotracheal tube and a catheter proximate the endotracheal tube to guide the path of an enteral tube. In a preferred embodiment, the endotracheal tube is capable of defining an arcuate path in a first geometric plane between its proximal end and its distal end to facilitate introduction of the tube into the trachea of a patient. In a preferred embodiment, the catheter employs a fenestration to facilitate removal of the intubation device from the patient without removal of any enteral device previously directed therethrough into the patient.

0) US2004044364A – TISSUE FASTENERS AND RELATED DEPLOYMENT SYSTEMS...

204) Family number: 30350073 (US2004044364A) © PatBase

Title: TISSUE FASTENERS AND RELATED DEPLOYMENT SYSTEMS AND METHODS

Priority: EP20030791687 20030819 US20020230672 20020829 US20090379252 20090217 WO2003US25818 20030819 US20130043255 20131001

Family:

Publication number	Publication date	Application number	Application date
AT526884 E	20111015	AT20030791687T	20030819
AU2003263892 AA	20040319	AU20030263892	20030819
CA2463870 AA	20040415	CA20032463870	20030819
DE60338683 D1	20111201	DE20036038683	20030819
EP1530442 A2	20050518	EP20030791687	20030819
EP1530442 B1	20111005	EP20030791687	20030819
ES2369537 T3	20111201	ES20030791687T	20030819
JP2006500090 T2	20060105	JP20040532906T	20030819
JP4456482 B2	20100428	JP20040532906T	20030819
US2004044364 AA	20040304	US20020230672	20020829
US2009216265 AA	20090827	US20090379252	20090217
US2014031841 AA	20140130	US20130043255	20131001
US8579935 BB	20131112	US20090379252	20090217
WO04019787 A2	20040311	WO2003US25818	20030819
WO04019787 A3	20040617	WO2003US25818	20030819

Probable Assignee: BOSTON SCIENTIFIC LIMITED

Assignee(s):(std)**:** DEVRIES ROBERT B ; DIMATTEO KRISTIAN ; SCIMED LIFE SYSTEMS INC ; GOLDEN JOHN B ; SULLIVAN ROY ; GELLMAN BARRY N ; SHAW WILLIAM J ; HUTCHINS JOHN E ; BOSTON SCIENT LTD ; BOSTON SCIENT SCIMED INC ; GEITZ KURT A E ; TASSY JR MARC

Assignee(s): GEITZ KURT AE ; SULLIVAN ROY H ; TASSY MARC JR ; BOSTON SCIENTIFIC LIMITED ; BOSTON SCIENTIFIC LTD ; BOSTON SCIENTIFIC SCIMED INC ; DEVRIES ROBERT ; TASSY MARC

Inventor(s):(std)**:** GEITZ KURT A E ; GELLMAN BARRY N ; GOLDEN JOHN B ; HUTCHINS JOHN E ; SHAW WILLIAM J ; SULLIVAN ROY ; SULLIVAN ROY H ; TASSY MARC ; TASSY MARC JR ; WILLIAM J SHAW ; ROY H SULLIVAN ; ROBERT B DEVRIES ; MARC JR TASSY ; KURT A E GEITZ ; KRISTIAN DIMATTEO ; JOHN E HUTCHINS ; JOHN B GOLDEN ; DEVRIES ROBERT ; DEVRIES ROBERT B ; DIMATTEO KRISTIAN ; BARRY N GELLMAN ; TASSY JR MARC ; SHAW WILLIAM ; HUTCHINS JOHN ; GOLDEN JOHN ; GELLMAN BARRY ; GEITZ KURT

Inventor(s): GEITZ KURT A ; HUTCHINS JOHN E NORTH ATTLEBORO ; GOLDEN JOHN B NORTON ; GELLMAN BARRY N N EASTON ; GEITZ KURT AE ; GEITZ KURT A E SUDBURY ; DIMATTEO KRISTIAN WALTHAM ; DEVRIES ROBERT B NORTHBOROUGH ; TASSY MARC JR FRAMINGHAM ; SULLIVAN ROY H MILLVILLE ; SHAW WILLIAM J CAMBRIDGE

Agent(s): PHILLIPS ORMONDE FITZPATRICK; SMART AND BIGGAR; VOSSIUS AND PARTNER PATENTANWAELTE RECHTSANWAELTE MBB; HAUCK PATENT UND RECHTSANWAELTE; FINNEGAN HENDERSON FARABOW GARRETT AND DUNNER LLP; BOOKOFF MCANDREWS PLLC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 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 UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): A61B17/00 A61B17/064 A61B17/068 A61B17/08 A61B17/11 (Advanced/Invention); A61B17/00 A61B17/04 (Advanced/Non–invention); A61B17/00 A61B17/03 A61B17/064 A61B17/068 (Core/Invention); A61B17/00 A61B17/04 (Core/Non–invention)

International class (IPC 1–7): A61B17/064 A61B17/068 A61B17/08

CPC: A61B17/064 A61B17/0401 A61B17/0644 A61B17/068 A61B2017/00867 A61B2017/0443 A61B2017/0641 A61B2017/0647 A61B2017/0649

European class: A61B17/064 A61B17/064D A61B17/068 K61B17/00S12 K61B17/04A K61B17/04A30R K61B17/064A K61B17/064T K61B17/064V

US class: 606/151 606/153 606/213 606/213P

Classification Explorer

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Abstract:
Source: US2004044364A Surgical tissue fasteners and related deployment systems and methods are disclosed. A tissue fastener used to join multiple tissue layers includes a first member, a second member, and a connecting member connecting the first and second members. In some embodiments, the first and second members are configured to expand from a delivered state to a deployed state in which the fastener secures the tissue layers together. Other tissue fastener embodiments include means for applying a substantially constant force on the tissue layers and/or means for adjusting a length of the connecting member between the first and second members.

0) US5314472A – VASCULAR STENT

205) Family number: 30418847 (US5314472A) © PatBase

Title: Vascular stent

Priority: CA19932092337 19930324 US19910723525 19910628 US19910723525F 19910628 US19920858304 19920525 US19910769216 19911001 US19920847247 19920309 US19920858304 19920325 US19920847247F 19920309 US19910769216F 19911001 US19940192064 19940204 US19930162825 19931206 US19940216782 19940322 US19920929150 19920813 US19920943000 19920910 US19920874347 19920424 US19920929150F 19920813 US19920858304F 19920525

Family:

Publication number	Publication date	Application number	Application date
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Assignee(s): C V RAD INC ; COOK INC BLOOMINGTON IND US ; COOK MEDICAL TECHNOLOGIES LLC ; CV RAD INC ; CV RAD INC A CORP OF CA

Inventor(s):(std)**:** AASAA BII FUONTEIN ; ARTHUR B FONTAINE ; DAKE MICHAEL D ; FONTAINE ARTHUR B ; MAIKERU DEII DEEKU ; MICHAEL D DAKE

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Designated states: DE ES FR GB IT

International class (IPC 8–9): A61F2/00 A61F2/06 A61F2/82 A61F2/88 A61F2/90 (Advanced/Invention); A61F2/00 A61F2/06 A61F2/82 (Advanced/Non–invention)

International class (IPC 1–7): A61F2/04 A61F2/06 A61F2/06 A61M29/00 A61M29/00 A61M29/02

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Abstract:
Source: US5314472A A vascular stent includes at least one filament formed into a wave−like pattern, the filament being wound into a substantially spiral shape; and a device for connecting at least one end of the filament to slide on a another portion of the filament so as to form a hoop at each end of the spiral shape.

0) US5753100A – IONIZATION–TYPE WATER PURIFICATION SYSTEM

206) Family number: 10810023 (US5753100A) © PatBase

Title: Ionization–type water purification system

Priority: CA19972225199 19971218 US19960774950 19961227

Family:

Publication number	Publication date	Application number	Application date
CA2225199 AA	19980627	CA19972225199	19971218
US5753100 A	19980519	US19960774950	19961227

Probable Assignee: LUMSDEN DENNIS L

Assignee(s):(std)**:** LUMSDEN DENNIS L

Inventor(s):(std)**:** LUMSDEN DENNIS L

Agent(s): MACRAE AND CO

International class(IPC 8–9)**:** C02F1/46 C02F1/461 C02F1/467 (Advanced/Invention); C02F1/00 (Advanced/Non–invention)

International class(IPC 1–7)**:** C02F1/461 C02F1/467

CPC: C02F1/4606 C02F1/46104 C02F2001/46133 C02F2001/46152 C02F2201/4611 C02F2301/024 C02F2301/026

European class: C02F1/461B C02F1/46H M02F1/461B2J M02F1/461B2L M02F201/461B2 M02F301/02D M02F301/02F

US class: 204/272 204/275.1 205/701 205/742 210/192 210/748 210/748.18

Classification Explorer

Cited documents: WO9618579 A1, WO9420420 A1, WO8707251 A1, US5543040 A, US5364512 A, US5114571 A, US5102515 A, US5094739 A, US5088432 A, US5085753 A, US4936979 A, US4822472 A, US4719018 A, US4680114 A, US4525272 A, US4525253 A, US4439300 A, US4341617 A, US4269690 A, US4119518 A, US3514389 A, US3425925 A, EP0284367 A2,

Forward Citations: WO16070296, WO13173731, WO13173731, WO0035813, US9546428, US9487875, US9045718, US8877020, US8545682, US8540855, US8512529, US8491764, US7879208, US7799234, US7449090, US6964739, US6949184, US6866806, US6860976, US6852236, US6800207, US6540888, US6533942, US6497822, US6458257, US6350385, US6332979, US2014183056, US2012298505, US2012255857, US2011186494, US2011180397, US2011173799, US2009071838, US2008314762, US2008245744, US2007181439, US2005058886, US2004195188, US2003201234, US2002190008, US2002134674, GB2345917, EP1325888, EP1149054,

Abstract:
Source: US5753100A An ionization delivery unit suitable for introducing microbicidal metal ions into an aqueous fluid comprises an inner cylindrical electrode surrounded by a cylindrical outer electrode disposed to provide a flow path generally shaped as a hollow cylinder, aqueous fluid introduced into the flow path by an inlet which imparts a substantial tangential component to the fluid flow. The vortexing flow encourages even electrode wear and minimizes deposition of occluding substances on the electrodes. The inner electrode is preferably a copper/silver anode while the outer electrode is preferably a stainless steel.

207) Family number: 21222035 (GB1175434A) © PatBase

Title: Method of and Apparatus for the Formation of Packages and Placing the contents thereof under Vacuum

Priority: FR19660071144 19660727 FR19670115232 19670721

Family:

Publication number	Publication date	Application number	Application date
BE701767 A	19680102		19670724
DE1586230 A1	19700514	DE19671586230	19670726
FR1502736 A	19671124	FR19660071144	19660727
FR93159 E	19690221	FR19670115232	19670721
GB1175434 A	19691223	GB19670034362	19670726
NL6710270 A	19680129	NL19670010270	19670725

Probable Assignee: CHARLES PLATEL

Assignee(s):(std)**:** CHARLES PLATEL ; PLATEL CHARLES

Inventor(s):(std)**:** PLATEL CHARLES

Inventor(s): CHARLES PLATEL

International class(IPC 8–9)**:** B65B31/02 B65B31/06 (Advanced/Invention); B65B31/02 B65B31/04 (Core/Invention)

International class(IPC 1–7)**:** B65B31/02 B65B31/04

CPC: B65B31/021 B65B31/06

European class: B65B31/02C B65B31/06

Classification Explorer

Abstract:
Source: GB1175434A 1,175,434. Vacuum packaging. C. PLATELL 26 July, 1967 [27 July, 1966], No. 34362/67. Heading B8C. [Also in Division E2] Bags are formed and filled successively to provide a chain of joined packages divided from each other by transverse welds but intercommunicating along the chain and open to atmosphere at one end of the chain whereby they may be vacuumized through that end and if desired, have inert gas admitted. Vacuumizing is carried out by coiling the chain under tension with an interleaving strip and placing the coil in a vacuum chamber. The chain may be formed from one doubled or two superposed webs and the transverse welds may each have a gap providing the air withdrawal passage. Alternatively, an intermittent longitudinal weld 13 spaced from one edge may provide communication with a common passage 12 between the weld and edge, the passage being retained open by a permeable cord and c. filling 11. The end of such a passage or the gap in the transverse weld at the end of the chain is closed off before the packages are exposed to atmosphere, after which the incomplete welds are rendered continuous to seal off individual packages. The packages may remain in the chain with lines of perforations between them to assist separation, or may be severed from each other. The packages are vacuumized by winding them on a drum with the interleaving strip of steel, reinforced plastics and c. The coil is then strapped and placed in the vacuum chamber which may also be an autoclave for sterilization purposes. The strip may apply pressure and may have markings to impress a pattern and c. on packages filled with granular material. It may be a hollow sealed tube enclosing sufficient air to cause it to swell under vacuum between the package coils Figs. 7,8 (not shown), and thus have a shaping function. Alternatively, pairs of pins projecting from one side of the strip may bridge the spaces between the strip coils on either side of the packages and thus relieve the latter of pressure Figs. 5, 6 (not shown). Known sealing means may be provided on the vacuuming chamber to seal the air exit from the chain, or a one way valve, e.g. a spring clip may be fitted on the end package. Several chains of packages arranged side by side may be coiled or chains as in Fig. 2, may be joined by pairs of hinged clips, Figs. 9–12 (not shown, but see Division E2) and coiled, flexible pipe connections ensuring continuity of the channel. The end of the channel may be connected within the chamber to a three way valve which is switched over to an inert gas source after vacuumizing, Fig. 14 (not shown). The final sealing and severing may be controlled by photo–electric means. The side plates of the coiling drum may be adjustable for various package widths.

0) US5062145A – HUMIDIFYING APPARATUS

208) Family number: 7237589 (US5062145A) © PatBase

Title: HUMIDIFYING APPARATUS

Priority: GB19890021779 19890927 NZ19880226392 19880929 NZ19880226784 19881031

Family:

Publication number	Publication date	Application number	Application date
AU198941751 A1	19900405	AU19890041751	19890925
AU614875 B2	19910912	AU19890041751	19890925
DE3932766 A1	19900405	DE19893932766	19890928
FR2636845 A1	19900330	FR19890012691	19890928
FR2636845 B1	19940506	FR19890012691	19890928
GB2223694 A1	19900418	GB19890021779	19890927
GB2223694 B2	19930324	GB19890021779	19890927
GB2252515 A1	19920812	GB19920004479	19920227
GB2252515 B2	19930414	GB19920004479	19920227
GB8921779 A0	19891108	GB19890021779	19890927
GB9204479 A0	19920415	GB19920004479	19920227
JP2193680 A2	19900731	JP19890250813	19890928
NZ226392 A	19921028	NZ19880226392	19880929
NZ226784 A	19921028	NZ19880226784	19881031
US5062145 A	19911029	US19890412819	19890927

Probable Assignee: FISHER AND PAYKEL HEALTHCARE LTD

Assignee(s):(std): FISHER AND PAYKEL

Assignee(s): FISHER AND PAYKEL HEALTHCARE LTD ; FISHER AND PAYKEL LIMITED ; FISHER AND PAYKEL LTD ; FISHER PAYKEL LTD ; FISHER AND PAYKEL LTD MOUNT WELLINGTON AUCKLAND NZ

Inventor(s):(std): CHIYAARUZU GUREEMU MAAREI ; GRAEME CHARLES ; IRIJIYA ORETSUKU ; MURRAY CHARLES G ; MURRAY CHARLES GRAEME ; OREC ILIJA ; PAURU ZAAN ; ZWAAN PAUL

Inventor(s): CHARLES GRAEME MURRAY ; PAUL ZWAAN ; PAUL ZWAAN ILIJA OREC ET CHARLES GRAEME MURRAY ; GRAEME CHARLES MOUNT WELLINGTON AUCKLAND NZ ; ILIJA OREC

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD

International class (IPC 8–9): A61M16/10 A61M16/14 A61M16/16 B01F3/02 F24F6/10 (Advanced/Invention); A61M16/10 A61M16/14 (Advanced/Non–invention); A61M16/10 B01F3/00 F24F6/02 (Core/Invention)

International class (IPC 1–7): A61M16/00 A61M16/16 B01F3/02 F22B1/28 F24F6/10

CPC: A61M16/109 A61M16/142 A61M16/16 A61M16/162 B01F3/022 A61M16/0833 A61M2205/3368

European class: A61M16/16 B01F3/02B K61M16/10H4 K61M16/14B K61M16/16F

US class: 392/395 392/396

Classification Explorer

Cited documents: US4913140 A, US4910384 A, US4753758 A, US4708831 A, US4680445 A, US4638147 A, US4532088 A, US4101294 A, US3871373 A, US3616796 A, US2236359 A, JP61165534 A2, GB2209479 A1, GB2176405 A1, FR2620043 A1, FR2250542 A1, EP0258928 A1, EP0127368 A2, AU5751386 A1,

Forward Citations: WO9802199, WO9620747, WO9207601, WO16109294, WO14006574, WO0200284, WO0200284, USRE40806, USRE39724, US9616194, US9572949, US9555210, US9486602, US9415183, US9353961, US9327093, US9327092, US9265902,

US9186477, US9084865, US9038635, US9038634, US9028437, US8955511, US8844533, US8839791, US8733349, US8671936, US8550075, US8550072, US8459259, US8333195, US8235041, US8211052, US8091547, US8091546, US8037882, US7997270, US7962018, US7958891, US7918816, US7827981, US7762251, US7744557, US7731704, US7708013, US7694675, US7686015, US7647925, US7616871, US7588029, US7559324, US7476212, US7428902, US7413173, US7314046, US7263994, US7250035, US7146979, US7140366, US7120354, US7111624, US7066902, US7051733, US7039302, US6976489, US6961515, US6918389, US6877510, US6802314, US6694974, US6584972, US6557551, US6435180, US6394084, US6367472, US6201223, US6123324, US5890703, US5392770, US5383447, US5367604, US5348691, US2014001658, US2013319435, US2013058635, US2011106001, US2010300446, US2010242961, US2010206308, US2010163044, US2009211579, US2009159079, US2009065002, US2009056713, US2009000620, US2008289631, US2007230927, US2006237012, US2006144395, US2006124127, US2006055069, US2006012057, US2005184047, US2005166915, US2005139694, US2005113797, US2005113795, US2005107767, US2005107766, US2004254524, US2004245658, US2004221844, US2004200476, US2004149284, US2004079370, US2004074493, US2004060558, US2004045549, US2003209246, US2003156829, US2003028139, TWI577401, JP6098893, JP6083817, JP5883418, JP5716062, JP2016013493, JP2014529721, JP2013252443, JP2013226465, JP2012091031, FR2685184, EP2842589, EP2295106, EP2178590, EP1820530, EP1647297, EP1647297, EP1634614, EP1634614, EP1522326, EP1514570, EP1329240, EP1281413, EP1138341, EP1073492, EP0885623, EP0885623, EP0801580, EP0567158, EP0567158, EP0549953, CN104519938, CN104415474, AU658953, AU2014218373,

Abstract:
Source: US5062145A A humidifier of small gases passageway volume (of the order of 50 ml gases space) has a heater within a water containing envelope having a microporous wall common to the water space within the envelope and the gases space, the microporous wall being permeable to water vapour but not liquid water and the envelope being reinforced by a support which also directs the flow of gases over the surface of the envelope. The heater is wound as a flat spiral to avoid the effect of gases or water vapour bubbles on heater performance temperature.

0) US5555908A – VALVED PRN ADAPTER FOR MEDICAL ACCESS DEVICES

209) Family number: 8751061 (US5555908A) © PatBase

Title: VALVED PRN ADAPTER FOR MEDICAL ACCESS DEVICES

Priority: CA19962178870 19960612 US19950494133 19950623

Family:

Publication number	Publication date	Application number	Application date
AU199656087 A1	19970109	AU19960056087	19960620
AU699473 B2	19981203	AU19960056087	19960620
CA2178870 AA	19961224	CA19962178870	19960612
CN1139010 A	19970101	CN19961010230	19960622
DE69608498 D1	20000629	DE19966008498	19960624
DE69608498 T2	20010118	DE19966008498T	19960624
EP0749762 A2	19961227	EP19960304640	19960624
EP0749762 A3	19970507	EP19960304640	19960624
EP0749762 B1	20000524	EP19960304640	19960624
ES2148687 T3	20001016	ES19960304640T	19960624
JP3104905 B2	20001030	JP19960163062	19960624
JP9182790 A2	19970715	JP19960163062	19960624
SG95577 A1	20030423	SG19960010115	19960620
US5555908 A	19960917	US19950494133	19950623

Probable Assignee: BECTON DICKINSON AND CO

Assignee(s):(std)**:** BECTON DICKINSON CO

Assignee(s): ORR DOUGLAS P ; EDWARDS FLOYD V ; BECTON DICKINSON AND CO ; BECTON DICKINSON AND CO FRANKLIN LAKES ; BECTON DICKINSON AND COMPANY

Inventor(s):(std)**:** DAGURASU PII OAA ; DOUGLAS P ORR ; EDWARDS FLOYD V ; FLOYD V EDWARDS ; FUROIDO BUI EDOWAAZU ; ORR DOUGLAS P

Agent(s): FB RICE; GOWLING LAFLEUR HENDERSON LLP

Designated states: DE ES FR GB IT

International class (IPC 8–9)**:** A61M39/00 A61M39/10 A61M39/22 A61M39/26 A61M5/168 (Advanced/Invention); A61M39/00 A61M5/168 (Advanced/Non–invention); A61M39/00 A61M5/168 (Core/Invention)

International class (IPC 1–7)**:** A61M39/00 A61M39/02 A61M39/10 A61M39/22 A61M39/26 A61M5/168 F16K15/18 F16K7/16 F16L29/02 F16L37/40

CPC: Y10T137/6184 A61M39/26 A61M2039/263 A61M2039/267

European class: A61M39/26 K61M39/26D

US class: 137/329.1 251/149.6 251/149.8

Classification Explorer

Cited documents: US5269771 A, US5251873 A, US5236005 A, US5108380 A, US5085645 A, US4527587 A, US4190075 A, US4123089 A, EP0629418 A2,

Forward Citations: WO9744662, WO14143528, WO13176586, WO10111546, WO10111546, WO05123174, USRE43597, USRE43142, USD786427, USD644731, USD642244, USD639398, USD468016, US9636492, US9592344, US9533137, US9440060, US9415200, US9370651, US9358379, US9326717, US9278206, US9278205, US9259565, US9238129, US9220882, US9205243, US9192753, US9186494, US9168366, US9144672, US9138572, US9126029, US9126028, US9119950, US9114242, US9089682, US9089673, US8876784, US8870850, US8840577, US8777909, US8777908, US8758306, US8747387, US8715247, US8679090, US8647310, US8628515, US8568371, US8556868, US8506533, US8506528, US8496643, US8454579, US8444628, US8398607, US8348893, US8313469, US8286657, US8262628, US8221391, US8211069, US8105314, US8100885, US8066692, US8048039, US8038123, US7998134, US7988664, US7963943, US7947032,

US7837658, US7824393, US7815614, US7803140, US7803139, US7789864, US7763199, US7758566, US7736332, US7713250, US7708025, US7695458, US7691090, US7651481, US7635357, US7628774, US7488446, US7306566, US7306197, US7163022, US7100890, US7080665, US6942193, US6932795, US6871669, US6669681, US6626418, US6569118, US6344033, US6290206, US6266236, US6261282, US6106503, US6029946, US6016683, US6005767, US5980830, US5975489, US5957898, US5913232, US5911403, US5885533, US5882602, US5333116, US2016199633, US2016158524, US2012153201, US2010146765, US2010145313, US2010030193, US2009163876, US2009112152, US2008091173, US2008082082, US2007100295, US2007083157, US2007025811, US2006264848, US2006231137, US2006200089, US2006200088, US2006196556, US2006058773, US2005222541, US2005137576, US2005121638, US2005084410, US2005076964, US2004260309, US2004138626, US2004031942, US2002147431, US2002002351, US2001049508, TWI564045, TWI355949, JP9000294, JP2015517377, ES2245881, EP2852430, EP2777755, EP1447112, CN105007968, CN104203333, CN104096283, CN103961793, CN103961793, CN102497897, CN102448537, CN102448537, AU2004216652, AU2003220703,

Abstract:
Source: US5555908A A valved adapter for connecting a fluid handling device to a medical device includes a body with a longitudinal axis and having a female luer fitting at a proximal end, a distal end and a passageway therethrough. The passageway has a chamber intermediate the proximal end and the distal end containing a valve having a normally closed position but operative to an open position. The valve includes a relatively elongate resilient member with a proximal end and an axis substantially coaxial to the longitudinal axis of the adapter. The valve further includes a pusher disposed at the proximal end of the elongate resilient member. The pusher includes a telescopic portion having an extended position and a collapsed position. The telescopic portion is biased to the extended position.

0) US4313491A – COILED HEAT EXCHANGER

210) Family number: 4822912 (US4313491A) © PatBase

Title: COILED HEAT EXCHANGER

Priority: AU19840030162 19840604 AU19840030643 19840604 US19800130615 19800317 US19800122305 19800219 US19780920660 19780630 US19800191523 19800929 US19810307208 19810930 US19830512583 19830712 US19840613915 19840525 WO1984US00849 19840604 WO1984US00850 19840604

Family:

Publication number	Publication date	Application number	Application date
AU198430162 A1	19851231	AU19840030162	19840604
AU198430643 A1	19851231	AU19840030643	19840604
BRPI8407333 A	19860923	BR1984PI07333	19840604
BRPI8407334 A	19860923	BR1984PI07334	19840604
EP0185655 A1	19860702	EP19840902403	19840604
EP0191757 A1	19860827	EP19840902404	19840604
EP0191757 A4	19890215	EP19840902404	19840604
JP61502237 T2	19861009	JP19840502321T	19840604
JP61502238 T2	19861009	JP19840502373T	19840604
US4313491 A	19820202	US19800122305	19800219
US4529032 A	19850716	US19830512583	19830712
US4531572 A	19850730	US19840613915	19840525
WO8505575 A1	19851219	WO1984US00849	19840604
WO8505576 A1	19851219	WO1984US00850	19840604

Probable Assignee: MOLITOR V D

Assignee(s):(std)**:** MOLITOR IND INC ; MOLITOR VICTOR D ; VICTOR D MOLITOR

Assignee(s): MOLITOR INDUSTRIES INC ; MOLITOR V D ; MOLITOR VD ; MOLITOR IND INC A CORP OF CO ; MOLITOR CAROLYN ; MOLITOR IND

Inventor(s):(std)**:** MOLITOR VICTOR D

Inventor(s): VICTOR D MOLITOR ; MOLITOR VD

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD

Designated states: AT AU BE BR CH DE FR GB JP LI LU NL SE

International class (IPC 8–9)**:** A47L15/42 B08B13/00 D06F39/00 F24D17/00 F24D17/02 F28D21/00 F28D7/02 F28F27/02 (Advanced/Invention); A47L15/42 B08B13/00 D06F39/00 F24D17/00 F24D17/02 F28D21/00 F28D7/00 F28F27/00 (Core/Invention)

International class (IPC 1–7)**:** B08B13/00 F24H1/00 F28D7/02 F28D7/04 F28F9/22

CPC: Y02B30/566 Y10S165/909 Y10S165/066 F24D17/001 F24D2200/20 F28D7/024 A47L15/4291 D06F39/00 D06F39/006 F24D17/0057 F24D17/02 F28D21/0012 F28F9/0282 Y02B10/70 Y02B40/44 Y02B40/54

European class: A47L15/42R D06F39/00 D06F39/00R F24D17/00C2 F24D17/00F6B F24D17/02 F28D21/00A6 F28D7/02D F28F9/02S12 R24D200/20 Y02B10/70 Y02B30/12 Y02B30/18 Y02B30/56D Y02B40/44 Y02B40/54

US class: 126/350C 134/10 134/104 134/104.1 134/104.4 134/105 134/107 134/110 165/1 165/119 165/13 165/160 165/163 165/165 165/174 165/301 165/47 165/83 165/909 165/DIG.12 165/DIG.66 210/108 210/411 219/201 219/279 219/281 219/306 219/312 219/314 219/316 392/441 392/449

Classification Explorer

Cited documents: US631426 A, US4326551 A, US4313491 A, US4304292 A, US4300247 A, US4282421 A, US4256176 A, US4202406 A, US4171722 A, US4156621 A, US4150787 A, US4084546 A, US4073663 A, US4011101 A, US3946802 A, US3938533 A, US3923073 A,

US3542592 A, US3526273 A, US3516483 A, US3474636 A, US3357567 A, US3332478 A, US3130779 A, US3112263 A, US3022638 A, US2949119 A, US2718481 A, US2663787 A, US2455605 A, US2190072 A, US2142928 A, US2133481 A, US2050465 A, US2028471 A, US1965553 A, US1887569 A, US1840940 A, US1799081 A, US1783950 A, US1767122 A, US1664637 A, US1605961 A, IT483084 A, GB791843 A, GB243875 A, GB2052698 A1, GB1595319 A, GB1163805 A, FR621168 A, FR494308 A, FR2530326 A1, FR2464688 A1, EP0025781 A1, DE2905251 A1, DE2806029 A1, DE2730489 A1, DE2517126 A1, DE2501165 A1, DE2415877 A1, DE2349949 A1,

Forward Citations: WO9851982, WO13143576, WO11120096, WO10076109, WO08091097, WO07065239, WO06063895, WO0229347, US9671173, US9609999, US9596973, US9405304, US9389026, US9372035, US9166139, US8955336, US8910702, US8770154, US8663395, US8297074, US8196909, US8176926, US8157924, US8146612, US8044303, US7965929, US7849530, US7669644, US7661460, US7523721, US6736329, US6645443, US6591846, US6357069, US6102106, US6076597, US5845704, US5838879, US5660193, US5640981, US5339654, US5246501, US5088192, US4934032, US4901425, US4865124, US4844049, US4790371, US4619317, US4570452, US4529032, US4516629, US2015101777, US2015014228, US2014283927, US2014138050, US2014014305, US2013199460, US2013074540, US2013037114, US2012167597, US2012048508, US2011203786, US2011155179, US2011100587, US2011048342, US2010276122, US2010024844, US2010005833, US2009308569, US2009255556, US2009242005, US2009223702, US2008240692, US2007209606, US2007089230, US2007000653, US2005023290, US2003164402, US2003140517, GB2304877, GB2304877, GB2271503, GB2271503, EP0689791, CN104896971, CN103459965, CN102735079, CN102735079,

Abstract:
Source: US4313491A A series of tubes wound in spiral, spaced relation in pressure contact with the next inner tube or a central cylinder to form, between them, a spiral path for one liquid flowing upwardly in the space between the tubes, while another liquid flows downwardly in the tubes. The outermost tube may be enclosed by a sheath in pressure contact therewith, while several sets of tubes, separated by corresponding sheaths, may be utilized. The diameter of the tubes may be varied for the sets to compensate for the greater length of tubes at an outer position, so that an approximately equal time of travel from one end of the tubes to the opposite ends may be obtained. The spacing between the successive turns of the coils is preferably a distance corresponding to one half the diameter of the tubes.

0) CO5970086U – ADAPTADOR PARA SISTEMAS DE SUCCION CON LLAVE DE...

211) Family number: 59633692 (CO5970086U) © PatBase

Title:	ADAPTADOR PARA SISTEMAS DE SUCCION CON LLAVE DE DERIVACION System Adapter suction bypass key (Machine translation)
Priority:	CO20080035569U 20080409

Family:

Publication number	Publication date	Application number	Application date
CO5970086 U1	20081031	CO20080035569U	20080409

Probable Assignee:	ALVARO MEJIA BORJA
Assignee(s):	ALVARO MEJIA BORJA
Inventor(s):	ALVARO MEJIA BORJA
Agent(s):	CARLOS ANDRES MEJIA QUINTERO
International class (IPC 8–9):	A61C17/00 (Advanced/Invention)

Classification Explorer

Abstract:
Source: CO5970086U 1.– Adaptador para sistemas de succion caracterizado porque esta conformado por tres partes. La primera es el Cuerpo (1) constituido por un cilindro donde se distinguen tres sectores; uno superior que presenta en la zona superior, una perforacion de un diametro muy pequeno (2), y a un lado se desprende un cilindro perforado (4) y ligeramente estriado externamente. Estas perforaciones verticales llegan hasta una perforacion horizontal (6) que atraviesa de manera transversal todo el cuerpo. En el interior de esta perforacion hay una ranura longitudinal (7). Un sector inferior (8), donde el cilindro se adelgaza, esta perforado verticalmente desde su extremo hasta la perforacion transversal, tiene tres estrias y termina en forma de chaflan, Entre la seccion superior e inferior del cuerpo hay un sector de diametro intermedio (9) de forma ligeramente tronconica. La segunda parte es la Llave de derivacion (10) constituida por un cilindro que se desplaza a traves de la perforacion transversal del cuerpo. La llave presenta en un extremo un disco de mayor diametro (11 a) que sirve de tope, un riel (12) que ajusta en la ranura longitudinal de la perforacion transversal del cuerpo y sirve de guia de desplazamiento de la llave de derivacion; presenta una perforacion transversal en el medio (13). Tambien en la parte superior cerca de los discos tope hay dos depresiones (14) una con mayor diametro que la otra. En la parte inferior de la perforacion de la llave de derivacion se amplia el diametro (15) y esta en contacto permanentemente con la perforacion que atraviesa verticalmente el cuerpo del adaptador en sus sectores medio e inferior, El otro extremo de la llave de derivacion se adelgaza formando un pin (16) que tiene como funcion ajustarse en el centro de la tercera parte del dispositivo que es un Disco (11 b) de igual diametro al del extremo de la llave de derivacion. 2.– Adaptador de acuerdo con la reivindicacion 1 caracterizado porque tiene dos perforaciones de diferente diametro, para usar eyectores convencionales y mini eyectores permitiendo la funcion de eyeccion con una sola manguera de succion. 1. Adapter for suction systems characterized because it consists of three parts. The first is the body (1) constituted by a cylinder where three sectors are distinguished; an upper posing on the top, a hole of a small diameter (2), and on one side a perforated cylinder (4) is clear and slightly striated externally. These vertical holes reach horizontal drilling (6) transversely through the body. Inside this perforation there is a longitudinal groove (7). A lower sector (8), where the cylinder is thin, this drilled vertically from the point to the transverse bore, and has three splines shaped chamfer ends, between the upper and lower body section is a diameter intermediate sector (9) of slightly frustoconical shape. The second part is the key derivation (10) consists of a cylinder that moves through the transverse drilling of the body. The key has at one end a larger diameter disk (11) serving as a stop, a rail (12) which fits into the longitudinal groove of the transverse bore of the body and serves as a slider of the key derivation; It has a transverse perforation in the middle (13). Also at the top near the top disc there are two depressions (14) having a greater diameter than the other. At the bottom of the perforation of the key derivation the diameter (15) is wide and is in permanent contact with the drill vertically through the adapter body in its middle and lower sectors, the other end of the bypass key Slimming forming a pin (16) whose function is set in the middle of the third part of the device is a disc (11 b) of equal diameter to the end of the key derivation. 2. Adapter according to claim 1 characterized in that has two holes of different diameter, to use conventional ejectors and mini ejectors ejection function allowing a single suction hose.

0) US3453967A – PUMP

212) Family number: 730083 (US3453967A) © PatBase

Title: PUMP

Priority: US19670667947 19670915

Family:

Publication number	Publication date	Application number	Application date
GB1242418 A	19710811	GB19680039983	19680821
US3453967 A	19690708	US19670667947	19670915

Probable Assignee: ELECTRO MEDICAL SYSTEMS INC

Assignee(s):(std)**:** ELECTRO MEDICAL SYSTEMS INC ; SUSQUEHANNA CORP

Inventor(s):(std)**:** DURFEE ROBERT L ; SPURLOCK JACK M

Inventor(s): JACK M SPURLOCK ; ROBERT L DURFEE

International class (IPC 8–9): A61M1/10 F04B43/08 (Advanced/Invention); A61M1/10 F04B43/00 (Core/Invention)

International class (IPC 1–7): A61M1/03 F04B43/00 F04B43/02

CPC: A61M1/1037 F04B43/084

European class: A61M1/10E F04B43/08D

US class: 417/480 417/559 92/90

Classification Explorer

Cited documents: US3270684 A, US3066853 A, US2986098 A, US2810351 A, US2191861 A, US2080134 A, US1491860 A, US1117779 A,

Forward Citations: WO9310357, WO02063169, US9636442, US9626059, US9619030, US9588684, US9588683, US9557915, US9557813, US9495055, US9477308, US9448630, US9430074, US9405417, US9372565, US9128525, US5090297, US5033270, US2016187980, US2015331525, US2014160044, FR2767874, EP0407517,

Abstract:
Source: US3453967A ABSTRACT OF THE DISCLOSURE This invention is a positive displacement pump which exerts minimum traumatic effects on liquids being handled. The pump is characterized by a deformable conical chamber having inlets and outlets fitted with one–way valves. Pumping action is provided by means for reciprocally twisting the chamber. B

0) GB1486440A – HIGH PRESSURE THROTTLING DEVICES

213) Family number: 1169262 (GB1486440A) © PatBase

Title: HIGH PRESSURE THROTTLING DEVICES

Priority: US19730421937 19731205

Family:

Publication number	Publication date	Application number	Application date
AU197475447 A1	19760520	AU19740075447	19741118
CA1008338 A1	19770412	CA19740213454	19741112
DE2457560 A1	19750619	DE19742457560	19741205
ES432598 A1	19760916	ES19740432598	19741204
FR2253974 A1	19750704	FR19740039702	19741204
FR2253974 B1	19821001	FR19740039702	19741204
GB1486440 A	19770921	GB19740052562	19741205
IT1026600 A	19781020	IT19740029937	19741128
JP50086722 A2	19750712	JP19740137822	19741203
NL7415884 A	19750609	NL19740015884	19741205

Probable Assignee: SELF R E

Assignee(s):(std)**:** SELF ; SELF R ; SELF R E ; SELF RICHARD E ; SELF RICHARD ERNST ; SELF RICHARD

Assignee(s): SELF RICHARD US ; SELF RE ; RICHARD ERNST SELF ; RICHARD ERNST SELF TE LOS ALAMITOS CALIFORNIE VER ; RICHARD ERNST SELF TE LOS ALAMITOS CALIFORNIE VER ST V AM

Inventor(s):(std)**:** SELF RICHARD E ; SELF RICHARD ERNST

Inventor(s): RICHARD ERNST SELF ; RICHARD ERNEST SELF ; ERNST SELF RICHARD

International class(IPC 8–9)**:** F15C1/06 F16C1/16 F16K3/24 F16K47/02 F16K47/08 (Advanced/Invention); F15C1/00 F16C1/10 F16K3/00 F16K47/00 (Core/Invention)

International class(IPC 1–7)**:** B67D F15B F15C1/06 F15C1/16 F15D1/02 F16K3/24 F16K45/02 F16K47/00 F16K47/02 F16K47/12 F17D G05D

CPC: F16K47/08

European class: F16K47/08

Classification Explorer

Cited documents: JP48025333 A2,

Forward Citations: WO16174107, WO14150325, WO05119109, WO04106792, WO0070253, US9404622, US9222624, JP53044932, JP52084521, JP2004515831, JP2002544614, FR2583118, EP1750045, EP1750045, EP1639285, DE102015005611,

Abstract:
Source: GB1486440A 1486440 Fluid regulation RE SELF 5 Dec 1974 [5 Dec 1973] 52562/74 Heading G3H [Also in Division F2] A high–pressure throttling device include a multiplicity of passageways of spiral configuration arranged in parallel flow relationship. In the embodiment shown the device is incorporated in an adjustable valve assembly and comprises a stack of annular discs 38 each provided with a respective row of spiral passageways 40, 41 in each face inter–connected by axial passages 42, 43. Thus fluid entering each passageway via passage 40a, passes around spiral 40b, through passages 42, 41a, around spiral 41b and leaves via passages 43, 44. The fluid may flow in the reverse direction if desired. The discs may be stacked with respective spirals in each row axially aligned to provide communication between passageways in adjacent discs. Alternatively, the spirals may be arranged to overlie lands on the adjacent discs so that the passageways are separate. Each disc may have only one row or more than two rows of spirals. The spirals may be formed in only one face of a disc. The discs may be of stainless steel, bronze, brass or plastics material.

0) US6283974B – SURGICAL TIP FOR PHACOEMULSIFICATION

214) Family number: 22908433 (US6283974B) © PatBase

Title: Surgical tip for phacoemulsification

Priority: US19970971052 19971114

Family:

Publication number	Publication date	Application number	Application date
US6283974 BA	20010904	US19970971052	19971114

Probable Assignee: ALEXANDER AARON JAMES

Assignee(s): ALEXANDER AARON JAMES

Inventor(s):(std)**:** ALEXANDER AARON JAMES

International class (IPC 8–9): A61F9/007 (Advanced/Invention); A61F9/007 (Core/Invention)

International class (IPC 1–7): A61F9/00

CPC: A61F9/00745

European class: A61F9/007R2

US class: 604/22 606/107 606/169

Classification Explorer

Cited documents: USD357313 S1, USD266872 S1, US884761 A, US6074396 A, US6007555 A, US5993408 A, US5935096 A, US5653724 A, US5591127 A, US5580347 A, US5562609 A, US5520633 A, US5464389 A, US5417654 A, US5213569 A, US5199943 A, US4959049 A, US4869715 A, US4816018 A, US4689040 A, US3589363 A, US3175554 A, US1881415 A,

Forward Citations: WO16191517, WO16060847, WO14192584, WO13016772, WO11120080, WO10075145, WO10027325, WO06107366, WO06101717, WO06029181, USD478383, US9566189, US9282989, US9233021, US9149387, US8974412, US8814894, US8784357, US8771301, US8631831, US8623040, US8579929, US8568422, US8533912, US8523812, US8439938, US8430838, US8414605, US8403851, US8349006, US8308735, US8303530, US8257307, US8241242, US8172786, US8070711, US8048020, US8012203, US7981074, US7811255, US7758538, US7727193, US7713202, US7651490, US7645256, US7645255, US7625388, US7588553, US7572242, US7374551, US6398759, US2016302816, US2014081151, US2011208114, US2011137232, US2011046541, US2011004149, US2010324581, US2010160852, US2010130914, US2010094321, US2010087846, US2010057097, US2010057092, US2010036406, US2010036256, US2010004585, US2009306583, US2008281253, US2008172076, US2008139994, US2008125699, US2007050507, US2007027452, US2006224163, US2006217739, US2006047254, US2006041220, US2006036180, US2005277869, US2005267504, US2005261715, US2005261628, US2005228425, US2005209621, US2005209561, US2005209560, US2005020990, US2004199171, US2004162546, US2004147945, EP2161046, CN103796621, CN103796621, AU2011235593, AU2009230754, AU2008361369, AU2006233110,

Abstract:
Source: US6283974B A micro surgical phacoemulsification tip wherein a repetitive pattern is etched into the inner lumen surface of a surgical tip in a controlled pattern such that a resonance condition is created which is in harmonic phase with the frequency of the phacoemulsification energy source, thereby reducing destructive interference waves and creating constructive waves; virtually eliminating instantaneous tip temperature spikes and removing the risk of potential tissue burning. More specifically, the present invention is drawn to phacoemulsification needles having a lumen surface having micro–grooved channels positioned thereon which center harmonic phased ultrasonic generated acoustic wavefront interiorly from the needle wall. The micro–grooved channeling of the present invention will work with the axial length of any phacoemulsification needle tip harmonic.

0) US3231688A – TELEPHONE HANDSET EARPIECE

215) Family number: 21926249 (US3231688A) © PatBase

Title:	TELEPHONE HANDSET EARPIECE
Priority:	US19620233578 19621029

Family:

Publication number	Publication date	Application number	Application date
US3231688 A	19660125	US19620233578	19621029

Probable Assignee:	WILLIAM UGARTECHEA
Assignee(s):(std):	WILLIAM UGARTECHEA
Inventor(s):(std):	WILLIAM UGARTECHEA
Inventor(s):	UGARTECHEA WILLIAM
International class (IPC 8–9):	H04R1/10 (Advanced/Invention); H04R1/10 (Core/Invention)
International class (IPC 1–7):	H04M1/04 H04R1/00
CPC:	H04R1/1008 H04R1/1058
European class:	H04R1/10M T04R1/10A
US class:	379/447
Classification Explorer	
Cited documents:	US2501830 A, US2353070 A, US1586140 A, US1584662 A, US1368307 A,
Forward Citations:	USD729764, USD729193, USD707201, USD592638, USD592181, USD454344, USD428408, USD427999, USD427998, US6396932, US6285772, US5682424, US5621791, US5402486, US5289592, US5034979, US4905276, US4827506, US4823384, US4185175, US3875592,

Abstract:
Source: US3231688A (Claim 1) 1. A molded plastic attachment for a telephone handset having a short cylindrical receiver portion and a threaded receiver retaining cap applied thereover, the attachment comprising: a short, hollow cylindrical body portion having first and second ends and having an inner diameter equal at least to approximately the outer diameter of said cylindrical receiver portion; a short, tubular protuberance portion extending axially outwardly from said cylindrical body portion and partially occluding said first end thereof, said protuberance defining with said cylindrical portion a continuous auditory channel funneling respectively from a larger to a smaller channel cross section; and end portion for terminating the end of said protuberance oppo– site from said cylindrical portion and being smoothly formed with said protuberance to fit comfortably against the outer ear of a user, said end portion being partially open to define an acoustical coupling between said receiver portion and the inner ear of said user; and a non– protruding closure portion affixed over said first end of said cylindrical portion for joining with structural continuity the walls of said cylindrical portion to those of said tubular protuberance, the external surfaces of said protuberance portion and said non–protruding closure portion thereby defining an acoustically isolated clearance region about the lobe of the ear of the user.

216) Family number: 42069067 (US2008183206A) © PatBase

Title: INTRAVENOUS DEEP VEIN THROMBOSIS FILTER AND METHOD OF FILTER PLACEMENT

Priority: US20070898939P 20070131 US20080012136 20080130 US20130906254 20130530 US20120653344P 20120530 US20150819258 20150805 US20160177299 20160608 US20160352479 20161115

Family:

Publication number	Publication date	Application number	Application date
US2008183206 AA	20080731	US20080012136	20080130
US2013267914 AA	20131010	US20130906254	20130530
US2015335415 AA	20151126	US20150819258	20150805
US2016346073 AA	20161201	US20160177299	20160608
US2017119516 AA	20170504	US20160352479	20161115
US8961557 BB	20150224	US20130906254	20130530
US9387062 BB	20160712	US20080012136	20080130

Probable Assignee: BATISTE STANLEY

Assignee(s):(std)**:** ACHSTEIN STEVEN ; BATISTE STANLEY

Assignee(s): MYOPOWER INC

Inventor(s):(std)**:** ACHSTEIN STEVEN ; BATISTE STANLEY

Agent(s): WEIDE AND MILLER LTD

International class (IPC 8–9): A61F11/00 A61F2/01 A61M29/00 A61M39/02 A61M5/165 (Advanced/Invention); A61M29/00 (Core/Invention)

CPC: A61M5/165 A61F2250/0067 A61M39/0247 A61M2039/0205 A61F2230/0093 A61F2/01 A61F2002/011 A61F2002/016 A61F2230/0091 A61F2250/0059 A61F2230/0006 A61F2220/0008 A61F2240/001 A61F2310/00023

European class: A61F2/01

US class: 1/1 604/272 606/108 606/200 606/200P

Classification Explorer

Cited documents: US6558404 BB, US6267777 BA, US6059825 A, US6007558 A, US5707389 A, US5531788 A, US5415630 A, US5375612 A, US5188616 A, US5108418 A, US4793348 A, US4494531 A, US3840017 A, US2009306703 AA, US2007270901 AA, US2006229668 AA, US2006212127 AA, US2005159771 AA, US2005131451 AA, US2005119522 AA, US2004193209 AA, US2004158274 AA, US2004034383 AA, US2003208227 AA, US2002116024 AA, US2002010481 AA,

Forward Citations: WO16110848, US9615909, US9592110, US9498318, US9387063, US9351821, US9326842, US9220588, US9204956, US9144484, US9131999, US9017367, US8690906, US8628556, US8613754, US8574261, US8430903, US8372109, US7967838, US2016022274, US2015148837, CN103385744,

Abstract:
Source: US2008183206A A vascular filter system and method are disclosed. In one embodiment, the filter system comprises a dispensing needle releasably attached to a filter dispenser which stores a length of filter wire. The filter wire dispenser has a guide tube which guides the filter wire into the needle and then into a vein during surgical implantation. The filter wire is configured to coil into a predetermined shape as it is deployed from the needle. The shape of the filter wire captures blood clots in the blood stream. Once the filter wire is deployed, the needle may be removed and a portion of the filter wire may be left protruding from the patient's skin surface to allow the filter wire to be secured by a fixation device. A syringe may be used to draw blood to confirm that the needle is properly positioned within a vein before the filter wire is deployed.

0) US2007196531A – APPARATUSES AND METHOD

217) Family number: 32365736 (US2007196531A) © PatBase

Title: APPARATUSES AND METHOD

Priority:

AU20050234994 20050413
AU20050234994 20050413
AU20050235002 20050422
AU20050235002 20050422
EP20050742806 20050422
IT2004RE00039 20040423
IT2004RE00040 20040423
IT2004RE00041 20040423
EP20050784184 20050909
WO2005IB02674 20050909
WO2005IB00968 20050413
US20060587312 20061023
US20110187889 20110721
WO2005IB01001 20050413
IT2004RE00042 20040423
WO2005IB01001 20050415
WO2005IB00989 20050414
WO2005IB01005 20050415
WO2005IB01085 20050422

Family:

Publication number	Publication date	Application number	Application date
AT510669 E	20110615	AT20050784184T	20050909
AU2005235002 AA	20051103	AU20050235002	20050422
BRPI0510081 A	20071016	BR2005PI10081	20050422
BRPI0520223 A2	20090929	BR2005PI20223	20050909
CN101043998 A	20070926	CN200580018502	20050422
CN101203363 A	20080618	CN200580049844	20050909
CN101203363 B	20120222	CN200580049844	20050909
CN101804679 A	20100818	CN201010121347	20050909
DE602005028293 D1	20110707	DE200560028293T	20050909
EP1755848 A2	20070228	EP20050742806	20050422
EP1868787 A1	20071226	EP20050784184	20050909
EP1868787 B1	20110525	EP20050784184	20050909
EP2436497 A1	20120404	EP20110183578	20050422
ES2367031 T3	20111027	ES20050784184T	20050909
IN04306CN2006 A	20070615	IN2006CN04306	20061123
IN05122CN2007 A	20080627	IN2007CN05122	20071113
ITRE20040039 A1	20040723	IT2004RE00039	20040423
ITRE20040040 A1	20040723	IT2004RE00040	20040423
ITRE20040041 A1	20040723	IT2004RE00041	20040423
ITRE20040042 A1	20040723	IT2004RE00042	20040423
JP2007533507 T2	20071122	JP20070509004T	20050422
JP2008535705 T2	20080904	JP20080505971T	20050909
JP4703642 B2	20110615	JP20070509004T	20050422
JP4754625 B2	20110824	JP20080505971T	20050909
KR20070028374 A	20070312	KR20067024654	20061123
MX2007012845 A1	20071115	MX20070012845	20050909
MXPA06012285 A1	20070511	MX2006PA12285	20050422
RU2006141356 A	20080527	RU20060141356	20050422
RU2009106290 A	20100827	RU20090106290	20090224
RU2359825 C2	20090627	RU20060141356	20050422
US2007196531 AA	20070823	US20060587312	20061023
US2008268274 AA	20081030	US20050918433	20050909
US2011280981 AA	20111117	US20110187889	20110721
US8007266 BB	20110830	US20060587312	20061023
US8007266 BB	20110830	US20050587312	20050422
US8277211 BB	20121002	US20050918433	20050909
WO05102640 A2	20051103	WO2005IB01001	20050415
WO05102640 A3	20060316	WO2005IB01001	20050415

WO05102641 A2	20051103	WO2005IB01085	20050422	
WO05102641 A3	20060622	WO2005IB01085	20050422	
WO05102641 C1	20061026	WO2005IB01085	20050422	
WO05102642 A1	20051103	WO2005IB00968	20050413	
WO05102643 A1	20051103	WO2005IB00989	20050414	
WO05102646 A1	20051103	WO2005IB01005	20050415	
WO06109108 A1	20061019	WO2005IB02674	20050909	

Probable Assignee: SACMI COOPERATIVA MECCANICI IMOLA SOCIETA COOPERATIVA

Assignee(s):(std)**:** BALBONI ALESSANDRO ; BATTILANI MAURO ; BELTRANDI DARIO ; BORGATTI MAURIZIO ; CAMERANI MATTEO ; MATTEO CAMERANI ; SACMI ; PARRINELLO FIORENZO ; MAURO BATTILANI ; ZUFFA ZENO ; SAKMI KOOPERATIVA MEKANICHI IM

Assignee(s): SACMI COOPERATIVA MECCANICI IMOLA SOCIETA' COOPERATIVA ; SAKMI KOOPERATIVA MEKANICHI IMOLA SOCHIETA KOOPERATIVA ; SACMI COOPERATIVA MECCANICI IMOLA SOCIETA'COOPERATIVA ; SACMI COOPERATIVE MECCANICI IMOLA SOCIETA COOPERATIVA ; SACMI COOPERATIVA MECCANICI IMOLA SOCIETA COOPERATIVA IMOLA ; SACMI COOPERATIVA MECCANICI IMOLA SOC COOP A ; SACMI COOPERATIVA MECCANICI IMOLA SOC ; SACMI COOPERATIVA MECCANICI IMOLA SOCIETA COOPERATIVA ; SACMI COOPERATIVA MECCANICI IMOLA SCOCIETA COOPERATIVA ; N A ; SACMI COOPERATIVA MECCANICI IMOLA SOCIETA AND ; SACMI COOPERATIVA MECCANICI IMOLA SOCIETA ; SACMI COOPERATIVA MECCANICI IMOLA SOCIETA COOPERAT

Inventor(s):(std)**:** ALESSANDRO BALBONI ; BAL BONI ALESSANDRO ; BALBONI ALESSANDRO ; BATTILANI MAURO ; BEL TRANDI DARIO ; BELTRANDI DARIO ; FIORENZO PARRINELLO ; KAMERANI MATTEO ; MATTEO CAMERANI ; MAURIZIO BORGATTI ; MAURO BATTILANI ; MAURO BELTRANDI DARIO PARRINEL ; PARRINELLO F ORENTSO ; PARRINELLO FIORENZO ; BORGATTI MAURITSIO ; BORGATTI MAURIZIO ; CAMERANI MATTEO ; TSUFFA DZENO ; ZUFFA ZENO

Inventor(s): ZENO ZUFFA ; DARIO BELTRANDI ; CAMERANI MARREO ; PARRINELLO F'ORENTSO ; BEL'TRANDI DARIO ; BELTRANDI DARIO PARRINELLO FIORENZO BALBONI ; BELTRANDI DARIO PARRINELLO FIORENZO BALBONI ALESSANDRO BORGATTI MAURIZIO ZUFFA ZENO BATTILANI MAURO CAMERANI MATTEO ; BAL'BONI ALESSANDRO

Agent(s): FB RICE; WITTE WELLER AND PARTNER PATENTANWAELTE MBB; CRUGNOLA PIETRO; VILLANOVA MASSIMO; NIXON AND VANDERHYE PC

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 KP KR KZ LC LI LK LR LS LT LU LV 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

International class (IPC 8–9): B29B11/12 B29B11/14 B29C31/04 B29C31/06 B29C43/02 B29C43/08 B29C43/34 B29C43/42 B29C49/02 B29C69/02 B65G47/38 B65G47/84 (Advanced/Invention); B29L22/00 (Advanced/Non–invention); B29B11/00 B29B11/14 B29C31/00 B29C31/04 B29C43/02 B29C43/04 B29C43/34 B29C43/36 B29C49/00 B29C49/02 B29C69/02 B65G47/00 B65G47/34 B65G47/84 (Core/Invention)

International class (IPC 1–7): B29B11/12 B29C31/04 B29C31/06 B29C43/08 B29C43/34 B29C43/42 B29C49/02 B65G47/84

CPC: B29C2043/3477 B29C2043/3494 B29C2043/3411 B29C47/0009 B29C43/34 B29B11/12 B29B11/14 B29B2911/1402 B29B2911/14026 B29B2911/14033 B29B2911/1404 B29B2911/14106 B29B2911/14213 B29C31/048 B29C43/08 B29C47/0038 B29C47/004 B29C47/0054 B29C47/0057 B29C2043/3288 B29C2043/3433 B29C2043/3461 B29C2043/3466 B29C2043/3472 B29K2105/253 Y10S425/809

European class: B29B11/12 B29B11/14 B29C31/04D4 B29C43/08 B29C43/34 B29C47/00L L29B911/14B2B L29B911/14B2D L29B911/14B2F L29B911/14B2H L29B911/14B4L L29B911/14B4T L29C43/32B2A L29C43/34A1 L29C43/34B L29C43/34D2 L29C43/34E L29C43/34E1 L29C43/34F L29C43/34H1 L29C47/00L4 L29C47/00L7 L29C47/00L8 L29K105/25C

US class: 425/112 425/112S 425/261 425/297 425/348.00R 425/348.00RP 425/348R 425/809 428/542.8 428/542.800P

Classification Explorer

Cited documents: WO05102641 A2, WO05007378 A1, WO05007378, WO04039553 A1, WO03047834 A1, WO03047834, WO03047831 A1, US8007266 BB, US7510386 BB, US7427195 BB, US7284974 BB, US6582215 BB, US6349838 BA, US5863751 A, US5863571 A, US5858415 A, US5811044 A, US5807592 A, US5088915 A, US5071339 A, US4979282 A, US4404229 A, US4336011 A, US4277431 A, US3867081 A, US3473204 A, US3375553 A, US2894285 A, US2894285, US2632936 A, US2011280981 AA, US2010289171 AA, US2007007694 AA, US2005031723 AA, US2004013758 AA, US2003066180 AA, US2002150647 AA, US02894285, JPH03169605, JP3169605 A2, JP2005059240 A2, JP2005059240, JP2004276371 A2, JP2004276371, JP2003127211 A2, JP2003127211, JP2003039531 A2, JP2003039531, JP2000280248 A2, JP2000280248, JP2000108127 A2, JP2000108127, JP10503135 T2, JP10503135, GB1100784 A, EP1361000 A2, EP1193054 A1, EP1110642 A2, EP1101586 A2, EP0568823 A1, EP0307325, DE3426713 A1, DE19654350 A1,

Forward Citations: WO12132543, WO12121325, WO11025916, WO10084470, WO09095753, WO09095753, WO09054451, WO09049848, WO09049848, WO09037975, WO09034892, WO09027777, WO08110887, WO08110887, WO08102224, WO08017915, WO08017915, WO07133397, WO07119139, WO07107822, WO07107822, WO07045577, WO07045577, WO06138089, WO06109108, US9573309, US9180611, US9156197, US8911225, US8794955, US8794954, US8702415, US8500438, US8366436, US8308473, US8277211, US8235703, US8235702, US8168100, US8162654, US8105072, US8016583, US7993564, US7776245, US7247014, US2012201920, US2012171319, US2011089134, US2011001258, US2010289171, US2010209727, US2010201032, US2010189832, US2010028479, US2009127076, US2008268274, KR101430787, JP5967076, JP5303733, JP4943507, JP2012533460, JP2012206339, JP2010537847, JP2010519079, JP2010500194, JP2010005949, JP2009101614, JP2009073095, JP2009066956, JP2007196542, JP2005343110, ITMO20090014, FR2899836, EP2404732, EP2263848, EP2263848, EP2206592, EP2206592, EP2193905, EP1990171, EP1990171, EP1985430, EP1849573, CN104931511, CN103538913, CN103538913, CN103057744, CN102481712, CN101801632,

Abstract:
Source: US2007196531A An apparatus comprises: forming means movable along a first path for compression moulding doses of plastics; a plurality of transfer means for transferring said doses to said forming means; a plurality of arm means, each arm means being associated with a corresponding transfer means for moving said transfer means along a second path having a portion substantially coinciding with a further portion of said first path.

0) US5873865A – SPIRAL CATHETER WITH MULTIPLE GUIDE HOLES

218) Family number: 11457719 (US5873865A) © PatBase

Title: Spiral catheter with multiple guide holes

Priority: US19970797240 19970207

Family:

Publication number	Publication date	Application number	Application date
US5873865 A	19990223	US19970797240	19970207

Probable Assignee: ECLIPSE SURGICAL TECHNOLOGIES INC

Assignee(s):(std)**:** ECLIPSE SURGICAL TECH

Assignee(s): ECLIPSE SURGICAL TECHNOLOGIES INC

Inventor(s):(std)**:** GIBA JEFFREY ; HORZEWSKI MICHAEL

International class (IPC 8–9)**:** A61M25/00 A61M25/06 (Advanced/Invention)

International class (IPC 1–7)**:** A61M25/00

CPC: A61M25/0041 A61M25/007 A61M25/0662 A61M2210/125

European class: A61M25/00R2 A61M25/06H K61M210/12B K61M25/00T10C

US class: 604/280 604/523 604/530 604/532 606/15 606/16 607/89

Classification Explorer

Cited documents: WO9635469 A1, US5687723 A, US5630823 A, US5607462 A, US5575787 A, US5569240 A, US5554114 A, US5489269 A, US5389096 A, US5351678 A, US5221255 A, US5109830 A, US4846171 A, US4832023 A, US4681570 A, US4669465 A, EP0515867 A2,

Forward Citations: WO9949926, WO9949926, WO14059041, WO12053788, WO12053788, WO11015218, WO10108175, WO10067062, WO08124110, WO06068927, WO06068927, WO06034492, WO03063941, WO02065897, WO02065897, WO0072907, USD748252, US9669149, US9668809, US9649487, US9649154, US9649153, US9642675, US9615915, US9610422, US9592086, US9579485, US9572956, US9572619, US9566113, US9554848, US9526637, US9523821, US9480600, US9468495, US9452017, US9446224, US9402973, US9398933, US9387304, US9358024, US9339618, US9289255, US9283374, US9272132, US9265913, US9242068, US9233200, US9179974, US9174019, US9149328, US9138292, US9125643, US9119737, US9095321, US9033976, US9027564, US9017324, US9011021, US9005195, US9005194, US8998894, US8992454, US8983582, US8979841, US8961508, US8961507, US8956352, US8944071, US8934978, US8932289, US8920413, US8917965, US8911439, US8894601, US8888773, US8888769, US8876754, US8834464, US8834461, US8821489, US8808280, US8808227, US8777943, US8774913, US8771269, US8771267, US8740895, US8740833, US8733367, US8731672, US8696614, US8657814, US8641704, US8640711, US8623013, US8617152, US8616782, US8597275, US8594478, US8584681, US8540661, US8534291, US8500939, US8489192, US8486063, US8483831, US8480667, US8465486, US8464723, US8459268, US8443810, US8337492, US8292841, US8273084, US8267094, US8257413, US8251070, US8235983, US8206371, US8192477, US8182158, US8181656, US8161978, US8152951, US8092415, US8066660, US8021321, US8002730, US7993333, US7992572, US7949407, US7938123, US7931647, US7921855, US7857808, US7854734, US7853331, US7850685, US7837679, US7832406, US7815376, US7770584, US7740017, US7556624, US7542802, US7425212, US7344518, US7331947, US7276043, US7273055, US7264002, US7087040, US7027869, US6997898, US6989004, US6951557, US6951555, US6905480, US6834201, US6692458, US6685672, US6634363, US6626902, US6589232, US6533751, US6488673, US6478778, US6461351, US6458103, US6415787, US6411852, US6398758, US6299633, US6283989, US6283988, US6273907, US6200333, US6156029, US6152911, US6135996, US6074378, US2016120605, US2015133904, US2014324142, US2014005642, US2012245512, US2012209359, US2011213333, US2011166565, US2011106074, US2011087258, US2011044578, US2010204689, US2010185190, US2010174267, US2010063479, US2010042039, US2010016832, US2009324160, US2009264770, US2009118661, US2009043301, US2009030411, US2009018563,

US2009018538, US2008314394, US2008306477, US2008281312, US2008281291, US2008161803, US2008140008, US2008097424, US2008097339, US2008082036, US2008058764, US2008021417, US2007129760, US2007123961, US2007123958, US2007118190, US2007118184, US2007112407, US2007112349, US2007106296, US2007106292, US2007102011, US2007093703, US2007083197, US2007073271, US2007062545, US2006278244, US2006278243, US2006258970, US2006254600, US2006247726, US2006247618, US2006247617, US2006247576, US2006189959, US2006135870, US2006106375, US2006064011, US2005257796, US2005251132, US2005187579, US2005119556, US2005033137, US2004215140, US2004204683, US2004182399, US2004147902, US2004082947, US2004031494, US2004006318, US2003159700, US2003120171, US2002193782, JP2009512539, JP2008523954, EP1894595, EP1870031, EP1859732, EP1349486, EP1233716,

Abstract:
Source: US5873865A A spiral catheter apparatus for access to, and laser or other treatment within, cavities and organs in the human body, the apparatus comprising a flexible, main catheter shaft defining a central axis of the apparatus, the catheter shaft having a proximal end, a distal end and a first hollow lumen region extending therethrough, the catheter shaft further having a spiral portion adjacent the distal end with a selected curvilinear shape, the curvilinear shape defining an inner arcuate sidewall and an outer arcuate sidewall, the catheter shaft flexible enough to assume a temporarily elongated shape such that the apparatus can be extended through at least a portion of the body in the temporarily elongated shape and will assume the selected curvilinear shape when extended into a body cavity or organ, the selected curvilinear shape serving to securely position the apparatus adjacent a selected surface within the body cavity or organ, at least the spiral portion of the catheter shaft having a plurality of guide holes thereon, the plurality of guide holes disposed at least on the outer arcuate sidewall in communication with the first lumen such that a distal end of a laser delivery means or other functional device can be controllably advanced through the plurality of guide holes for laser or other treatment on the selected surface.

0) US2001031058A – HEARING AID ASSEMBLY HAVING EXTERNAL DIRECTIONA...

219) Family number: 28095360 (US2001031058A) © PatBase

Title: HEARING AID ASSEMBLY HAVING EXTERNAL DIRECTIONAL MICROPHONE

Priority: US19990173427P 19991229 US20000742252 20001220 WO2000US35244 20001222

Family:

Publication number	Publication date	Application number	Application date
AU200124563 A5	20010709	AU20010024563D	20001222
US2001031058 AA	20011018	US20000742252	20001220
US6704423 BB	20040309	US20000742252	20001220
WO0149070 A1	20010705	WO2000US35244	20001222
WO0149070 C1	20011129	WO2000US35244	20001222

Probable Assignee: ETYMOTIC RESEARCH INC

Assignee(s):(std): ETYMOTIC RES INC ; SCHULEIN ROBERT B

Assignee(s): ANDERSON C ROGER ; ETYMOTIC RESEARCH INC ; FRENCH JOHN S

Inventor(s):(std): ANDERSON C ROGER ; FRENCH JOHN S ; SCHULEIN ROBERT B

Inventor(s): ANDERSON C ; JOHN S FRENCH ; ROBERT B SCHULEIN ; C ROGER ANDERSON

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

International class (IPC 8–9): H04R25/00 (Advanced/Invention); H04R25/00 (Core/Invention)

International class (IPC 1–7): H04R25/00

CPC: H04R25/402

European class: H04R25/40B

US class: 381/312 381/312S 381/313 381/313P 381/322 381/322S 381/328 381/328S 381/356

Classification Explorer

Cited documents: US6473513 BA, US6292572 BA, US6285771 BA, US6151399 A, US6134334 A, US607994 A, US6009183 A, US5875254 A, US5835606 A, US5828757 A, US5703957 A, US5606621 A, US5381484 A, US5226076 A, US5208867 A, US5048090 A, US5046580 A, US4539440 A, US4489442 A, US4456795 A, US4291203 A, US2616985 A, US2262146 A, JP57106299 A2, JP4245800 A2,

Forward Citations: WO08157557, USD650080, USD605769, USD605292, US9591393, US9232324, US8976991, US8948430, US8885858, US8634582, US8483419, US8374367, US8331593, US8160261, US8150057, US8121320, US8094850, US8050437, US8019386, US7912237, US7751580, US7720245, US7715581, US7606382, US7421086, US7139404, US7110562, US2013216079, US2010226520, US2010202643, US2010166209, US2009323993, US2009296969, US2009290735, US2009180654, US2009180653, US2009116672, US2009092269, US2008273733, US2007147628, US2007076913, US2007064967, US2007064966, US2007036374, US2007009130, US2006182287, US2005281423, US2005281422, US2005217925, US2005195996, US2004047483, US2004010181, EP1713303, EP1713303,

Abstract:
Source: US2001031058A A hearing aid assembly having a directional microphone mounted externally to a hearing aid body is disclosed. The hearing aid, which may be, for example, an in–the–canal (ITC) or completely–in–the–canal (CIC) hearing aid, has a mounting arm attached to an external surface of the hearing aid body, and the mounting arm in turn has a directional microphone mounted therewith. The mounting arm provides mechanical and electrical connection between the directional microphone and the hearing aid. The mounting arm is also configured such that, upon insertion of the ITC or CIC hearing aid into the ear canal of a wearer, the microphone is located in the region above the tragion portion of the ear.

0) US2014222039A – SURGICAL DEVICE FOR CONTROLLED ANCHORING IN THE...

220) Family number: 52884079 (US2014222039A) © PatBase

Title: SURGICAL DEVICE FOR CONTROLLED ANCHORING IN THE INTESTINE

Priority: EP20120738570 20120705 FR20110056771 20110725 WO2012FR51576 20120705

Family:

Publication number	Publication date	Application number	Application date
BR112014000589 A2	20170214	BR20141100589	20120705
CN103764069 A	20140430	CN201280037113	20120705
CN103764069 B	20160817	CN201280037113	20120705
DE602012009618 D1	20150924	DE201260009618T	20120705
EP2736449 A1	20140604	EP20120738570	20120705
EP2736449 B1	20150812	EP20120738570	20120705
FR2978345 A1	20130201	FR20110056771	20110725
FR2978345 B1	20130830	FR20110056771	20110725
JP2014527854 T2	20141023	JP20140522130T	20120705
JP5864743 B2	20160217	JP20140522130T	20120705
US2014222039 AA	20140807	US20120234834	20120705
WO13014353 A1	20130131	WO2012FR51576	20120705

Probable Assignee: MEDICAL INNOVATION DEV

Assignee(s):(std)**:** CHARAM KHOSROVANINEJAD ; KHOSROVANINEJAD CHARAM ; MEDICAL INNOVATION DEV

Assignee(s): MEDICAL INNOVATION DEVELOPMENT ; MEDICAL INNOVATION DEVELOPPEMENT

Inventor(s):(std)**:** CHARAM KHOSROVANINEJAD ; KHOSROVANINEJAD CHARAM ; KHOSROVANINEJAD CHARAN

Agent(s): CBDL PATENTANWAELTE; DOMANGE MAXIME; CABINET BEAU DE LOMENIE; CMS BUREAU FRANCIS LEFEBVRE LYON; DOMANGE MAXIME 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 QA RO RS RU RW 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

International class (IPC 8–9): A61B17/00 A61B17/08 A61F2/04 A61F2/856 A61F5/00 (Advanced/Invention)

CPC: A61F2/04 A61F2/064 A61F2/95 A61F2002/044 A61F2002/075 A61F5/0076 A61B17/08 A61F5/0013 F04C2270/041

US class: 606/151

Classification Explorer

Cited documents: WO11085234 A1, WO11085234, WO10092291 A1, WO10092291, WO10009291 A1, WO10002291 A1, WO03094785 A1, US2008208357 AA, US2008208357, US2008167606 AA, US2008167606, US2007282452 AA, US2006112536 AA, US2004122527 AA, US2004044358 AA, US0208357, US0167606, JP2005524485 T2, JP2005524485, JP2000316979 A2, JP2000316979, FR2941858 A1,

Abstract:
Source: US2014222039A The present invention relates to a surgical anchor device (1) suitable for being anchored on the mucous membrane of the inner wall of the intestine (10), the device comprising a temporary anchor element (2) presenting anchoring that can be modified in controlled manner and comprising a first substantially cylindrical multiply−perforated wall presenting properties of radial elasticity whereby said first wall presents an outer diameter that can be varied in controlled manner, the device being characterized in that at least a portion of the inner surface of said first wall (2a) is lined with an independent leakproof inner sheath having only its longitudinal ends (3a, 3b) fastened to said anchor element (2) in such a manner as to define a suction chamber (5) between said inner sheath (3) and said first wall, said temporary anchor element (2) being coupled to a flexible or semi−rigid tube referred to as an "injection−suction" tube (6), extending outside said anchor element (2), an

open end (6a) of said injection–suction tube opening out into said suction chamber (5) enabling air to be injected into or sucked out from said suction chamber.

0) WO10049862A1 – ENDOSCOPIC SURGERY DEVICE DISPOSITIF DE CHIRUR...

221) Family number: 44966701 (WO10049862A1) © PatBase

Title: ENDOSCOPIC SURGERY DEVICE

Priority: IT2008FI00207 20081029

Family:

Publication number	Publication date	Application number	Application date
IT1392132 B1	20120222	IT2008FI00207	20081029
ITFI20080207 A1	20100430	IT2008FI00207	20081029
WO10049862 A1	20100506	WO2009IB54694	20091023

Probable Assignee: ELENOR S R L

Assignee(s):(std)**:** BUCEFARI MASSIMO ; ELENOR S R L ; SANDRELLI LUCA

Assignee(s): ELENOR SRL

Inventor(s):(std)**:** BUCEFARI MASSIMO ; SANDRELLI LUCA

Agent(s): BARDINI MARCO LUIGI 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 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

International class (IPC 8–9): A61B17/00 A61B17/12 (Advanced/Invention); A61B17/00 A61B17/12 (Core/Invention)

CPC: A61B17/12013 A61B2017/00243 A61B2017/2911

European class: A61B17/12L2 K61B17/00E1C K61B17/29H4

Classification Explorer

Cited documents: WO08036408 A2, US2008243183 AA, US2008033457 AA,

Forward Citations: WO15129491, WO15129470,

Abstract:
Endoscopic surgery system, for catching and closing anheart auricle in such a way to prevent the blood flow into the auricle cavity, comprising: –a ring–shaped tightening element (3), which tightens a noose (2) around the auricle to be occluded;5 –a main hollow body (4); –a push slider (7), housedin the main body (4) and sliding therein, whose push member (7) in turn has a proximal portion (10) perforated longitudinally in such a way to allow the passage of the noose (2)ends, such proximal portion (10) being capable to cooperate with the tightening element (3) in such a manner to drivingit intothe 10 occlusionmovement. (Fig. 1)

0) WO11054531A2 – MEDICAL DEVICE FOR THE RECANALISATION OF BODY C...

222) Family number: 48872272 (WO11054531A2) © PatBase

Title: MEDICAL DEVICE FOR THE RECANALISATION OF BODY CAVITIES, SET COMPRISING SUCH A DEVICE, AND METHOD FOR PRODUCING A MEDICAL DEVICE

Priority: DE200910052002 20091105 WO2010EP06758 20101105

Family:

Publication number	Publication date	Application number	Application date
DE102009052002 A1	20110519	DE200910052002	20091105
DE102009052002 B4	20120927	DE200910052002	20091105
EP2496152 A2	20120912	EP20100778565	20101105
EP2496152 B1	20170111	EP20100778565	20101105
WO11054531 A2	20110512	WO2010EP06758	20101105
WO11054531 A3	20110721	WO2010EP06758	20101105

Probable Assignee: ACANDIS GMBH AND CO KG

Assignee(s):(std)**:** ACANDIS GMBH AND CO KG ; CATTANEO GIORGIO

Inventor(s):(std)**:** CATTANEO GIORGIO ; CATTANEO GIORGIO DR

Agent(s): KILCHERT JOCHEN

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 TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9)**:** A61B17/00 A61B17/22 A61B17/221 A61B17/30 A61B17/3207 A61F2/01 A61F2/04 A61F2/82 A61F2/84 (Advanced/Invention)

CPC: A61B17/22031 A61B17/221 A61B17/3207 A61B17/32075 A61B2017/00526 A61B2017/00893 A61B2017/22034 A61B2017/306

European class: A61B17/221 A61B17/22E A61B17/3207 K61B17/00M K61B17/00S21 K61B17/22E6 K61B17/30S K61B17/3207P

Classification Explorer

Cited documents: WO9626682 A1, WO9613295 A1, WO09077845 A2, WO08088920 A2, WO07092506 A2, WO04037178 A2, WO04002321 A2, WO03061483 A2, WO0228291 A2, WO0172239 A2, US6494907 BA, US6001118 A, US5556413 A, US2009240213 AA, US2009198315 AA, US2009132031 AA, US2009125095 AA, US2004143209 AA, US2003208256 AA, US2001031981 AA, US2001007947 AA,

DE202004018994 U1

DE102009056450 A1

DE102004062296 A1

Forward Citations: WO11110356, US9526865, US9526864, US9408620, US9387098, US9320532, US9259237, US9220522, US9198687, US9161766, US8968330, US8945172, US8945143, US8940003, US8926680, US8784434, US8585713, US8574262, US8545514, DE102010010849,

Abstract:
The invention relates to a medical device for the recanalisation of body cavities (20). Said device comprises a recanalisation element (10) that can be inserted into the body cavity (20), can be converted from a compressed state into an expanded state and has, in said expanded state, a tubular hollow body (11) such that the body cavity (20) can be recanalised, the outer contour of said recanalisation element (10) forming at least one helical winding (13). In addition, the invention relates to a set comprising such a device and a supply system (40).

0) WO13037005A1 – PROSTHETIC VALVE VALVULE PROTHETIQUE

223) Family number: 53202300 (WO13037005A1) © PatBase

Title: PROSTHETIC VALVE

Priority: AU20110903796 20110916

Family:

Publication number	Publication date	Application number	Application date
WO13037005 A1	20130321	WO2012AU01104	20120914
WO13037005 A4	20130606	WO2012AU01104	20120914

Probable Assignee: PROSTHEXIS PTY LTD

Assignee(s):(std)**:** PROSTHEXIS PTY LTD ; VOWLES ROBERT WALTER

Inventor(s):(std)**:** VOWLES ROBERT WALTER

Agent(s): VOWLES ROBERT WALTER

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 IS IT JP KE KG KM KN KP KR KZ LA LC 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 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

International class (IPC 8–9): A61F2/24 (Advanced/Invention)

CPC: A61F2/2409 A61F2240/001 A61F2/2469 A61F2/2475

Classification Explorer

Cited documents: US6705585 BA, US4544599 A, US3417777 A, US2011118828 AA, FR2407708 A1, DE4204138 A1,

Abstract:
A prosthesis to replace a venous or cardiac valve comprising a valving element in the form of a plurality of spirally–arranged, partially overlapping and facially abutting layers, said valving element being made in a single piece from a thin, elastic material, the end of its outer turn being fixed to an annular supporting ring and the end of its final turn terminating in a capping piece which acts as a central closure of said layers; in their collapsed, abutting state, said partially overlapping layers acting to provide a complete obstruction to flow in one direction but, when pressure is applied to them from the counter direction, lifting and elastically separating in a mode similar to that of the coils of a very light spring; opening of said valve involving only a small torsional distortion distributed more or less equally throughout the whole length of said valving element.

0) US2020722A – GASEOUS ELECTRIC DISCHARGE DEVICE

224) Family number: 19713465 (US2020722A) © PatBase

Title: GASEOUS ELECTRIC DISCHARGE DEVICE

Priority: US19300472538 19300802

Family:

Publication number	Publication date	Application number	Application date
FR724658 A	19320430		19310801
GB385898 A	19330105	GB19310021563	19310728
US2020722 A	19351112	US19300472538	19300802

Probable Assignee: GEN ELECTRIC VAPOR LAMP CO

Assignee(s):(std): GEN ELECTRIC VAPOR LAMP CO ; BRITISH THOMSON HOUSTON CO LTD ; THOMSON HOUSTON COMP FRANCAISE

Assignee(s): THE BRITISH THOMSON HOUSTON COMPANY LIMITED ; COMPAGNIE FRANCAISE POUR L EXPLOITATION DES PROCEDES THOMSON HOUSTON ; FRANCAISE POUR L EXPLOITATION DES PROCED COMP ; FRANCAISE POUR L EXPLOITATION DES PROCEDES THOMSON HOUSTON COMP ; GENERAL ELECTRIC VAPOR LAMP CO ; GENERAL ELECTRIC VAPOR LAMP COMPANY

Inventor(s):(std): FOULKE TED E

International class (IPC 8–9): H01J61/64 (Advanced/Invention); H01J61/00 (Core/Invention)

International class (IPC 1–7): H01J61/64

CPC: H01J61/64

European class: H01J61/64

US class: 252/181.7 313/238 313/252 313/311 313/325 313/630 445/13 445/18

Classification Explorer

Forward Citations: US3704927, US3004816, US2583029, US2438356, US2438181,

Abstract:
Source: GB385898A [Class 39 (i).] A cathode glowdischarge lamp operating on direct or alternating current, and especially suitable for use with direct current of 100–110 volts, comprises closely spaced electrodes coaxially arranged within the envelope and each coated with an alkali or alkaline earth metal, at least one electrode being of helical form while the other is so constructed as to be capable of being heated to a high temperature by high frequency induction. In one construction, Figs. 3 and 4, one electrode is constituted by a hollow cylinder 5, preferably of nickel or nickel–plated iron, closed at its upper end, and the other by a helix 9, preferably of nickel–plated iron, mounted concentrically around the cylinder. Leads 2, 3, preferably of copper–coated nickel wire, are sealed through the stem press 4, the lead 2 being connected to a transverse supporting member 6, preferably of nickel, within the cylinder 5, and the lead 3 extending through an opening in the top of the cylinder for connection to the helix 9. A tubular vitreous sheath 7 serves to insulate the lead 3 from the cylinder 5 and its upper end provides a further point of support for the cylinder. A downward extension of the support 6 carries a tubular vessel 10, preferably of iron, open at its lower end and enclosing a small quantity of magnesium 11 to serve as a getter. In a modification, Figs. 6 and 7, the leads 21, 31 sealed through the stem press 4 pass through longitudinal passages in a cylinder 12 of lavite, porcelain or other suitable insulating material mounted within the' cylindrical electrode 5<1>. The lead 2<1> is spot welded to a tab 14 punched up from the top of the cylinder 5<1> while the lead 31 passes freely through an opening in the top of the cylinder 5<1> for connection to the helix 9. The getter vessel 10 is carried by a wire 13 which passes through a third longitudinal passage in the cylinder 12, its'upper end being bent over and held between the tops of the cylinders 12 and 5<1>. In each case the electrode structure is first assembled with the exception of the electrode 9. The electrode 5 or 51 is then coated with an alkali or alkaline earth metal compound decomposable to the oxide, e.g. barium or strontium carbonate or potassium hydroxide. The electrode 9 is then mounted, the stem 4 is sealed into the envelope, and the lamp is heated to 450 C. for 10 mins. while maintaining a high vacuum for the removal of occluded gases. A high frequency coil is then held for 15 secs. with its axis normal to that of the electrode structure to raise the temperature of the electrode 9 to about 600 C. to remove from its surface any oxide. The coil is then placed with its axis in line with that of the electrode structure to raise the temperature of the electrode 5 or 5<1> to about 1000 C. for a time sufficient to effect the decomposition of the carbonate or hydroxide to the oxide. The coil is then lowered to concentrate. its heating effect on the magnesium 11 to vaporize it. The envelope is then filled with mercury vapour, neon, helium or other suitable gas or vapour, or mixtures thereof, e.g. neon containing 0.2 to 0.8 per cent. of argon at 35 mm. pressure. After sealing off, the lamp is connected to a source of pulsating or

alternating potential of steep wave front to produce a bombardment of the electrode 5 or 5<1> serving to reduce some of the oxide to the free metal and to sputter some of the metal on to the electrode 9. To obtain a more uniform coating on this electrode it is preferred to use an unsymmetrical alternating current such that the half cycle of greater potential occurs when the electrode is negative. Fig. 8 shown a modified construction in which two helical electrodes 24, 25 are employed, the turns of each helix being shortcircuited. The helix 24 is connected at each end to the lead 22 and the helix 25 at each end to the lead 23 and the turns of one helix are evenly spaced between those of the other. Both electrodes are coated with the alkali or alkaline earth compound which is subsequently decomposed to the oxide by the heat generated in the closed circuits of the helices by a high frequency field and thereafter reduced to the free metal by the action of an alternating potential between the electrodes. Specifications 162,268, [Class 39 (i), Electric lamps, Arc c.], and 362,346 are referred to.

0) FR1384259A – ROUE MOBILE DE POMPE, EN PARTICULIER A UN OU PL...

225) Family number: 21089993 (FR1384259A) © PatBase

Title:	ROUE MOBILE DE POMPE, EN PARTICULIER A UN OU PLUSIEURS CANAUX MOBILE WHEEL PUMP, ESPECIALLY ONE OR MORE CHANNELS (Machine translation)
Priority:	FR19640959133 19640102

Family:

Publication number	Publication date	Application number	Application date
FR1384259 A	19650104	FR19640959133	19640102

Probable Assignee:	FLYGTS PUMPAR AB
Assignee(s):(std):	FLYGTS PUMPAR AB
Assignee(s):	AKTIEBOLAGET FLYGTS PUMPAR
International class (IPC 8–9):	F04D29/22 (Advanced/Invention); F04D29/18 (Core/Invention)
International class (IPC 1–7):	F04D29/22 F04D5/00
CPC:	F04D29/225
European class:	F04D29/22C3

Classification Explorer

Abstract:
Source: FR1384259A (Claim 1) RESUME La presente invention a pour objet une roue mobile a un ou plusieurs canaux de pompage de milieux composes, d'eaux usees boueuses, etc., caracterisee par les points suivants, consideres isolement ou suivant toute combinaison possible:1.

Machine translation: (Claim 1) SUMMARY The present invention relates to a moving wheel has one or more channels pumping environments compounds, of muddy wastewater, etc.., Characterized by the following, taken alone or following any possible combination: 1.

0) WO17072381A1 – SYSTEM FOR DISTILLING SEAWATER AND RECOVERING T...

226) Family number: 62180362 (WO17072381A1) © PatBase

Title: SYSTEM FOR DISTILLING SEAWATER AND RECOVERING THE PNEUMATIC AND HYDRAULIC ENERGY DIVERTED TO THIS PURIFYING PROCESS

Priority: ES20150031542 20151028

Family:

Publication number	Publication date	Application number	Application date
ES2567529 AA	20160422	ES20150031542	20151028
ES2567529 BA	20170210	ES20150031542	20151028
WO17072381 A1	20170504	WO2016ES70736	20161019

Probable Assignee: BENDITO VALLORI SEBASTIAN ENRIQUE

Assignee(s):(std): BENDITO VALLORI SEBASTIAN ENRIQUE

Assignee(s): SEBASTIAN ENRIQUE BENDITO VALLORI

Inventor(s):(std): BENDITO VALLORI SEBASTIAN ENRIQUE

Inventor(s): SEBASTIAN ENRIQUE BENDITO VALLORI

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 DJ 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 KW KZ LA LC 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

International class (IPC 8–9): B01D3/00 C02F1/04 F03G7/04 (Advanced/Invention)

CPC: F03G7/04 B01D3/00 C02F1/04 Y02P70/34

Classification Explorer

Cited documents: WO9641079 A1, WO8102446 A1, WO09110949 A1, WO08042893 A2, US4186311 A, ES2476165 AA,

Abstract:
The invention relates to a system for distilling seawater by using a spiral turbine which drives an air injector that uses a conical screw with a decreasing pitch. The compression of the air, by means of heating with gas, vaporises the seawater, the expansion of the gas subsequently causing the distilled vapour to precipitate as pure water. In addition, the system recovers the pneumatic and hydraulic energy associated with the purifying process, by using identical turbines, respectively inserted into the hydraulic and injection–based pneumatic circuits obtained from the precipitation of the water vapour generated, the energy being used in any type of work.

0) US2007083195A – LOW POWER TISSUE ABLATION SYSTEM

227) Family number: 34109867 (US2007083195A) © PatBase

Title: LOW POWER TISSUE ABLATION SYSTEM

Priority: EP20060786979 20060711 US20050698355P 20050711 US20080340414 20081219 US20060484878 20060711 WO2006US27003 20060711 US20140483869 20140911

Family:

Publication number	Publication date	Application number	Application date
AU2006268238 AA	20070118	AU20060268238	20060711
CA2615267 AA	20080111	CA20062615267	20060711
DE602006039345 D1	20140109	DE200660039345T	20060711
EP1909679 A2	20080416	EP20060786979	20060711
EP1909679 A4	20110928	EP20060786979	20060711
EP1909679 B1	20131120	EP20060786979	20060711
US2007083195 AA	20070412	US20060484878	20060711
US2009182325 AA	20090716	US20080340414	20081219
US2015005767 AA	20150101	US20140483869	20140911
US8617156 BB	20131231	US20080340414	20081219
US8834461 BB	20140916	US20060484878	20060711
US9566113 BB	20170214	US20140483869	20140911
WO07008954 A2	20070118	WO2006US27003	20060711
WO07008954 A3	20070510	WO2006US27003	20060711

Probable Assignee: MEDTRONIC ABLATION FRONTIERS LLC

Assignee(s):(std)**:** ABLATION FRONTIERS INC ; FLAHERTY J C ; FLAHERTY J CHRISTOPHER ; WERNETH RANDELL L ; KUNIS CHRISTOPHER G ; SHERMAN MARSHALL L ; ABLATION FRONTIERS ; MEDTRONIC ABLATION FRONTIERS LLC ; MEDTRONIC ABLATION FRONTIERS

Assignee(s): MEDTRONIC ABLATION FRONTIERS LLC MINNEAPOLIS ; MEDTRONIC ABLATION FRONTIERS INC ; MEDTRONIC ABLATION FRONTIERS TECHNOLOGIES LLC

Inventor(s):(std)**:** FLAHERTY J C ; KUNIS CHRISTOPHER G ; SHERMAN MARSHALL L ; WERNETH RANDELL L ; FLAHERTY J CHRISTOPHER

Inventor(s): FLAHERTY J ; WERNETH RANDELL L SAN DIEGO ; WERNETH RANDELL ; RANDELL L WERNETH ; SHERMAN MARSHALL ; KUNIS CHRISTOPHER

Agent(s): AHEARN FOX; MBM INTELLECTUAL PROPERTY LAW LLP; JUNGBLUT BERNHARD JAKOB ET AL; HUGHES ANDREA MICHELLE; MAYER AND WILLIAMS PC; SHAY GLENN LLP; CHRISTOPHER AND WEISBERG PA

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 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 ZA ZM ZW

International class (IPC 8–9): A61B18/14 A61B18/18 (Advanced/Invention); A61B17/00 A61B18/00 (Advanced/Non–invention); A61B18/14 A61B18/18 (Core/Invention)

CPC: A61B18/1492 A61B2017/00084 A61B2017/00243 A61B2018/00214 A61B2018/00351 A61B2018/00666 A61B2018/00898 A61B2018/1467 A61B2018/1475

European class: A61B18/14V K61B17/00C1T K61B17/00E1C K61B18/00B14 K61B18/00F6A K61B18/00H14 K61B18/00H4 K61B18/14H K61B18/14M K61B18/14V

US class: 606/32 606/41 606/41P 606/45

Classification Explorer

Cited documents: WO9956649, WO9956648, WO9956647, WO9956644, WO9902096 A1, WO9901076 A1, WO9838913 A1, WO9828039 A2, WO9826724 A1, WO9819611 A1, WO9818520 A2,

WO9742996 A1, WO9740760, WO9736541, WO9732525, WO9725917, WO9717904, WO9717893, WO9715919 A1, WO9639967 A1, WO9636860 A2, WO9634653, WO9634652, WO9634650, WO9634570, WO9634569 A1, WO9634567, WO9634560, WO9634559, WO9634558, WO9632897, WO9632885, WO9610961 A1, WO9412098, WO9410922 A1, WO9325273 A1, WO9308756, WO9006079, WO07024785, WO07016123, WO07001981 A2, WO06055741 A1, WO06055733 A1, WO06055658 A1, WO06055654 A1, WO06052905, WO06052651 A1, WO06049970 A2, WO06044794, WO06044741, WO06017517, WO05104972, WO05085663 A1, WO05065563 A1, WO05065562 A1, WO05027766 A1, WO05027765 A1, WO03089997 A2, WO03041602 A2, WO03008997, WO02060523 A2, WO0122897 A1, WO0078239, USD381076 S1, USD351652 S1, US7163537 BB, US7156843 BB, US7155270 BB, US7151964 BB, US7122031 BB, US7118568 BB, US7115122 BA, US7113831 BB, US7099712 BB, US7099711 BB, US7094235 BB, US7077823 BB, US7048756 BB, US7048734 BA, US7047068 BB, US7044135 BB, US7029471 BB, US7029470 BB, US7025766 BB, US7001336 BB, US6987995 BB, US6973339 BB, US6972016 BB, US6966908 BB, US6964660 BB, US6961602 BB, US6960206 BB, US6955173 BB, US6952615 BB, US6939349 BB, US6936047 BB, US6916306 BA, US6893442 BB, US6893439 BB, US6893438 BB, US6866662 BB, US6830576 BB, US6814732 BB, US6813520 BB, US6805131 BB, US6761716 BB, US6752804 BB, US6746446 BA, US6743225 BB, US6740080 BB, US6738673 BB, US6730078 BB, US6711428 BB, US6702811 BB, US6701639 BB, US6701180 BA, US6690972 BB, US6671533 BB, US6669692 BA, US6652517 BA, US6652513 BB, US6640120 BA, US6638275 BA, US6638223 BB, US6635056 BB, US6632223 BA, US6628976 BA, US6625482 BA, US6616657 BB, US6607520 BB, US6607505 BA, US6605087 BB, US6602242 BA, US6597955 BB, US6583796 BB, US6575997 BA, US6574492 BA, US6572612 BB, US6569163 BB, US6569162 BB, US6569114 BB, US6565511 BB, US6558378 BB, US6554794 BA, US6551271 BB, US6544262 BB, US6542773 BB, US6540744 BB, US6529756 BA, US6522905 BB, US6520185 BA, US6517536 BB, US6514246 BA, US6500172 BA, US6500167 BA, US6493586 BA, US6490468 BB, US6487441 BA, US6485487 BA, US6478793 BA, US6477396 BA, US6475214 BA, US6475213 BA, US6471699 BA, US6471693 BA, US6460545 BB, US6456864 BA, US6454758 BA, US6451015 BA, US6447506 BA, US6440129 BA, US6428537 BA, US6428536 BB, US6425894 BA, US6391024 BA, US6389311 BA, US6379352 BA, US6371955 BA, US6370435 BB, US6360128 BB, US6353751 BA, US6346104 BB, US6332881 BA, US6332880 BA, US6325798 BA, US6325797 BA, US6319251 BA, US6312425 BA, US6309385 BA, US6302880 BA, US6293943 BA, US6290697 BA, US6267746 BA, US6264664 BA, US6256540 BA, US6251107 BA, US6245089 BA, US6245067 BA, US6241754 BA, US6241728 BA, US6241727 BA, US6241726 BA, US6241725 BA, US6241724 BA, US6241666 BA, US6238390 BA, US6235024 BA, US6231570 BA, US6226542 BA, US6217576 BA, US6217573 BA, US6216044 BA, US6216043 BA, US6214002 BA, US6212426 BA, US6200314 BA, US6179833 B1, US6171306 BA, US6171306 B1, US6171305 BA, US6171305 B1, US6167291 A, US6165172 A, US6165169 A, US6146381 A, US6146379 A, US6141576 A, US6129724 A, US6120476 A, US6119041 A, 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US5863291 A, US5860920 A, US5857997 A, US5857464 A, US5849028 A, US5837001 A, US5827272 A, US5820568 A, US5810740 A, US5800482 A, US5792140 A, US5782899 A, US5782828 A, US5782760 A, US5782239 A, US5775327 A, US5772590 A, US5769847 A, US5769791 A, US5766152 A, US5741320 A, US5735280 A, US5733323 A, US5724985 A, US5722975 A, US5722401 A, US5716389 A, US5711298 A, US5706809 A, US5704791 A, US5702438 A, US5699796 A, US5697928 A, US5697927 A, US5693078 A, US5687723 A, US5685322 A, US5682885 A, US5681280 A, US5680860 A, US5673695 A, US5666970 A, US5662606 A, US5658278 A, US5657755 A, US5656029 A, US5645082 A, US5645064 A, US5637090 A, US5630837 A, US5630425 A, US5626136 A, US5623772 A, US5620481 A, US5607462 A, US5606974 A, US5601088 A, US5598848 A, US5596995 A, US5595183 A, US5588964 A, US5588432 A, US5584830 A, US5582609 A, US5578007 A, US5576766 A, US5575810 A, US5575766 A, US5573533 A, US5558073 A, US5545200 A, US5545193 A, US5545161 A, US5540681 A, US5536267 A, US5533967 A, US5527279 A, US5509411 A, US5507802 A, US5500011 A, US5492119 A, US5487757 A, US5472441 A, US5471982 A, US5465717 A, US5462545 A, US5462521 A, US5445148

A, US5433739 A, US5433198 A, US5423811 A, US5423808 A, US5411025 A, US5406946 A, US5404638 A, US5400783 A, US5397339 A, US5397304 A, US5391147 A, US5383917 A, US5370644 A, US5365926 A, US5364352 A, US5348554 A, US5345936 A, US5342357 A, US5342295 A, US5334193 A, US5330466 A, US5327889 A, US5324284 A, US5318525 A, US5313943 A, US5309910 A, US5281218 A, US5281213 A, US5279299 A, US5255679 A, US5239999 A, US5234004 A, US5231995 A, US5231987 A, US5230349 A, US5228442 A, US5215103 A, US5184621 A, US5156151 A, US5100423 A, US5083565 A, US5016808 A, US5010894 A, US4966597 A, US4940064 A, US4920980 A, US4907589 A, US4896671 A, US4882777 A, US4869248 A, US4860769 A, US4785815 A, US4699147 A, US4660571 A, US4432377 A, US4411266 A, US4249319 A, US4180922 A, US4145602 A, US4112952 A, US4080971 A, US4017903 A, US3951136 A, US3935856 A, US3516412 A, US2007106293 AA, US2007083194 AA, US2007083193 AA, US2007027448 AA, US2006241366 AA, US2006206109 AA, US2006195082 AA, US2006189975 AA, US2006142753 AA, US2006122526 AA, US2006111708 AA, US2006111703 AA, US2006111702 AA, US2006111701 AA, US2006111700 AA, US2006106375 AA, US2006095030 AA, US2006089637 AA, US2006084966 AA, US2006030844 AA, US2005256521 AA, US2005251132 AA, US2005240176 AA, US2005234444 AA, US2005187545 AA, US2005177146 AA, US2005148892 AA, US2005119651 AA, US2005119647 AA, US2005101946 AA, US2005096644 AA, US2005065512 AA, US2005033137 AA, US2005015084 AA, US2005010095 AA, US2004247164 AA, US2004236324 AA, US2004182384 AA, US2004181249 AA, US2004181139 AA, US2004158141 AA, US2004152980 AA, US2004143256 AA, US2004138545 AA, US2004133154 AA, US2004116921 AA, US2004082947 AA, US2004015164 AA, US2003204186 AA, US2003204185 AA, US2003199868 AA, US2003199862 AA, US2003199746 AA, US2003195501 AA, US2003195407 AA, US2003181819 AA, US2003125730 AA, US2003093069 AA, US2003060865 AA, US2003055420 AA, US2003055419 AA, US2003018330 AA, US2002198522 AA, US2002165532 AA, US2002161422 AA, US2002161361 AA, US2002128643 AA, US2002126036 AA, US2002120263 AA, US2002065465 AA, US2002010392 AA, US2001051803 AA, US2001044625 AA, US2001039418 AA, US2001039415 AA, US2001029366 AA, US2001020166 AA, US2001018608 AA, US2001008967 AA, SU1690786 T, SU1544396 T, SU1512622 T, JP2004188179, EP1690564 A1, EP1658818 A1, EP1554986 A1, EP1455667 B1, EP1415680 B1, EP1384445 B1, EP1383437 B1, EP1364677 A2, EP1360938 A1, EP1343427 B1, EP1321166 B1, EP1210021 B1, EP1207798 B1, EP1182980 B1, EP1169976 B1, EP1125549 B1, EP1070480 B1, EP1014874 B1, EP1011437 B1, EP0957794 B1, EP0879016 B1, EP0828451 B1, EP0823873 B1, EP0823843 B1, EP0779059, EP0598742 B1, EP04288121, EP0428812 B1, CA2492283, CA2437140, CA2371935, CA2328070, CA2328064, CA2327518, CA2327322, CA2276755 C, CA2251041 C, CA22276755 C, CA2222617 C, CA2194061 C, AU5200671 A1,

Forward Citations: WO16130385, WO16042547, WO15142674, WO14118734, WO14118734, WO12143283, WO11008355, USD777926, USD777925, US9642675, US9636174, US9636173, US9636164, US9629679, US9603661, US9597018, US9592092, US9585717, US9579149, US9572623, US9572509, US9545290, US9532831, US9532703, US9526573, US9522042, US9522037, US9522036, US9517103, US9510905, US9510777, US9510773, US9492635, US9492228, US9492227, US9486273, US9486270, US9480525, US9474574, US9474563, US9468497, US9468495, US9463066, US9456869, US9452017, US9452016, US9445867, US9445862, US9439735, US9439726, US9439713, US9439708, US9427255, US9420940, US9414738, US9408663, US9402992, US9402678, US9399115, US9387046, US9375268, US9364286, US9364280, US9345900, US9345538, US9345530, US9339332, US9327123, US9327122, US9326817, US9326816, US9320561, US9314644, US9314630, US9314620, US9308044, US9308043, US9289258, US9289255, US9277957, US9265558, US9259290, US9259264, US9259235, US9254169, US9241752, US9233241, US9220526, US9198592, US9192766, US9192715, US9186213, US9186198, US9179974, US9173702, US9155590, US9138578, US9138292, US9138281, US9131978, US9131836, US9125661, US9119634, US9119633, US9108040, US9095321, US9084610, US9078662, US9072527, US9066726, US9066720, US9066713, US9060755, US9060754, US9050113, US9044575, US9028483, US9023037, US9017321, US9017320, US9017317, US9011431, US9011423, US9005198, US9005194, US8998894, US8996091, US8989859, US8986294, US8983595, US8979841, US8974445, US8958871, US8956352, US8951296, US8948865, US8945107, US8939897, US8934978, US8932287, US8920411, US8906035, US8906012, US8906011, US8888773, US8886288, US8880186, US8870863, US8858548, US8852163, US8845629, US8825133, US8818514, US8808345, US8805545, US8784463, US8777942, US8774913, US8771269, US8771267, US8771260, US8771252, US8768470, US8768433, US8740896, US8728138, US8728137, US8728075, US8721637, US8684998, US8676309, US8657814, US8652133, US8652129, US8641704, US8626300, US8620423, US8617152, US8612022, US8608652, US8588886, US8588885, US8579897, US8571626, US8565851, US8551069,

US8548600, US8506564, US8504147, US8496574, US8486063, US8454594, US8449538, US8444640, US8425505, US8403926, US8398630, US8396532, US8369930, US8361068, US8337492, US8273084, US8224416, US8175711, US8150520, US8150519, US8150518, US8145317, US8145316, US8131372, US8131371, US8118809, US7993333, US7857808, US7850685, US7832820, US2016324574, US2015272664, US2014371745, US2013282040, US2013006082, US2012123411, US2011257648, US2011213231, US2011112524, US2011098694, US2011028966, US2011019893, US2011009857, US2010094328, US2010076426, US2009299420, US2009163916, US2009076409, US2009062873, US2008281322, US2008255642, US2008161803, US2008111527, US2007106293, US2007083193, US2005251132, US2005033137, ITGE20110043, EP2932999, EP2671527, EP2465574, EP2218479, DE102009034249, CN103501718, CN103501718,

Abstract:
Source: US2007083195A Devices, systems and methods are disclosed for the ablation of tissue. Embodiments include an ablation catheter that has an array of ablation elements attached to a deployable carrier assembly. The carrier assembly can be constrained within the lumen of a catheter, and deployed to take on an expanded condition. The carrier assembly includes multiple electrodes that are configured to ablate tissue at low power. Additional embodiments include a system that includes an interface unit for delivering one or more forms of energy to the ablation catheter.

0) EP2898842A1 – EINFUEHRUNG EINES IMPLANTATS UEBER EINE PUNKTIO...

228) Family number: 59936866 (EP2898842A1) © PatBase

Title: EINFUEHRUNG EINES IMPLANTATS UEBER EINE PUNKTION DELIVERY OF A CLAMPING IMPLANT VIA A PUNCTURE

Priority: EP20140152116 20140122

Family:

Publication number	Publication date	Application number	Application date
EP2898842 A1	20150729	EP20140152116	20140122

Probable Assignee: NORDEN MEDICAL BV

Assignee(s):(std)**:** NORDEN MEDICAL BV

Inventor(s):(std)**:** ABBRING DREWES PIETER ; KALMANN MENNO ; KAPTEIN WIEGER GERARD ; SCHULTING EDWIN ALEXANDER ; SMITS JOHAN

Agent(s): JANSEN CORNELIS MARINUS

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

International class (IPC 8–9): A61B17/06 A61B17/122 A61B17/128 (Advanced/Invention); A61B17/00 A61B17/064 (Advanced/Non–invention)

CPC: A61B17/1285 A61B17/06066 A61B17/1227 A61B2017/00867 A61B2017/06076 A61B2017/061 A61B2017/0649 A61B17/064

Classification Explorer

Cited documents: WO12073097 A2, US4204541 A, US2012053598 AA, EP2599450 A1,

Abstract:
Source: EP2898842A1 A tool for delivering and applying a clamping implant (9; 109) via a puncture in skin tissue (3) and underlying tissue (2) of a patient, comprising a hollow needle (4; 104) bounding a lumen (5; 105) and forming a helix, a plunger (6; 106) of which a distal portion extends in longitudinal direction inside the lumen (5; 105), and a plunger operating member (7; 107) engaging a proximal portion of the plunger (6; 106) projecting from the needle (4; 104), for screwing the plunger (6; 106) further into or out of the needle (4; 104) by screwing rotation of the needle (4; 104) relative to the plunger (6; 106). A system including such a tool and a method for delivering and applying a clamping implant (9; 109) using such an instrument are also described.

0) US3307515A – VAPOR DEPOSITION APPARATUS INCLUDING TUMBLER

229) Family number: 22848765 (US3307515A) © PatBase

Title: VAPOR DEPOSITION APPARATUS INCLUDING TUMBLER

Priority: US19630302339 19630815

Family:

Publication number	Publication date	Application number	Application date
US3307515 A	19670307	US19630302339	19630815

Probable Assignee: MALLORY AND CO INC P R

Assignee(s):(std)**:** MALLORY AND CO INC P R

Assignee(s): P R MALLORY AND CO ; P R MALLORY AND CO INC

Inventor(s):(std)**:** JOHN MELLAR CARROLL ; KIRSCHNER JOHN G ; MCCLELLAND ROLAND H ; ROBERT WIENER

Inventor(s): WIENER ROBERT ; MELLAR CARROLL JOHN

International class (IPC 8–9): C23C16/44 C23C16/54 (Advanced/Invention); C23C16/44 C23C16/54 (Core/Invention)

International class (IPC 1–7): C23C13/08 H01C17/00

CPC: C23C16/44 C23C16/54

European class: C23C16/44 C23C16/54

US class: 118/418 118/64 118/663 118/715

Classification Explorer

Cited documents: US3076607 A, US2989421 A, US2893850 A, US2854353 A, US2810365 A, US2612442 A, US2161950 A, US2057431 A, US1739642 A, US1552293 A, US1550656 A, US1239399 A, GB775210 A,

Forward Citations: US4116161, US3473954, US3464846,

Abstract:
Source: US3307515A (Claim 1) 1. In an apparatus for vapor−phase deposition of a resistive film on a plurality of electrical resistor substrates, an inclined hollow cylindrical kiln having a resistance heating coil traversing the inside diameter thereof, a rotatable reaction chamber concentrically disposed adjacent the inside diameter of said resistance heating coil, said reaction chamber comprising a metal tube having a helix of wire fixedly disposed along its inside diameter, spray means substantially penetrating one end of said reaction chamber for introducing and atomizing a deposition solution within said chamber said spray means comprising a nozzle having a first tubular passage for introducing said deposition solution and a second tubular passage concentric with and surrounding at least the penetrating portion of said first passage, means for passing atomizing air through said second passage to thereby control heating of said deposition solution prior to discharge and atomization thereof, substrate entrance means adapted to introduce said substrates into said reaction chamber, said reaction chamber being adapted to advance and tumble said substrates at a predetermined rate during deposition, discharge means allowing exit of the coated substrates from said reaction chamber, exhaust control means adapted to remove from said reaction chamber the gaseous products resulting from the vapor−phase reaction, the reaction chamber ends being substantially blocked from external atmospheric contamination, and the coefficient of thermal expansion of said reaction chamber being sufficiently different from that of the deposition material so as to cause dislodgement of accumulated coating deposits when said apparatus is allowed to cool.

0) US2005125034A – ACTIVE SUTURE FOR THE DELIVERY OF THERAPEUTIC F...

230) Family number: 31978844 (US2005125034A) © PatBase

Title: ACTIVE SUTURE FOR THE DELIVERY OF THERAPEUTIC FLUIDS

Priority: US20030727367 20031204 US20040909717 20040802 US20050142589 20050601 US20050235853 20050927 WO2004US40488 20041203

Family:

Publication number	Publication date	Application number	Application date
AU2004296810 AA	20050623	AU20040296810	20041203
AU2004296810 BB	20091119	AU20040296810	20041203
CA2546611 AA	20060518	CA20042546611	20041203
CN100502794 C	20090624	CN200480041177	20041203
CN1909842 A	20070207	CN200480041177	20041203
EP1694216 A2	20060830	EP20040812911	20041203
IN01312KN2006 A	20070504	IN2006KN01312	20060517
IN271218 B	20160212	IN2006KN01312	20060517
JP2007515212 T2	20070614	JP20060542777T	20041203
JP5014798 B2	20120829	JP20060542777T	20041203
KR101226543 B1	20130128	KR20067011036	20041203
KR20070092926 A	20070914	KR20067011036	20041203
US2005125034 AA	20050609	US20030727367	20031204
US2005125035 AA	20050609	US20040909717	20040802
US2006030883 AA	20060209	US20050235853	20050927
US7875055 BB	20110125	US20040909717	20040802
US8128656 BB	20120306	US20050235853	20050927
US8257393 BB	20120904	US20030727367	20031204
WO05055836 A2	20050623	WO2004US40488	20041203
WO05055836 A3	20051013	WO2004US40488	20041203

Probable Assignee: ETHICON INC

Assignee(s):(std)**:** CICHOCKI FRANK R ; CICHOCKI FRANK R JR ; CICHOCKI JR FRANK RICHARD ; ETHICON INC

Assignee(s): CICHOCKI FRANK RICHARD JR ; CICHOCKI FRANK RJR

Inventor(s):(std)**:** CICHOCKI FRANK R ; CICHOCKI FRANK R JR ; CICHOCKI FRANK RICHARD JR ; CICHOCKI JR FRANK R ; CICHOCKI JR FRANK RICHARD ; FRANK R JR CICHOCKI

Inventor(s): FRANK RICHARD CICHOCKI JR ; CICHOCKI FRANK RJR ; CICHOCKI FRANK RICHARD ; CICHOCKI FRANK

Agent(s): CALLINANS; FISHER ADAMS KELLY CALLINANS; OGILVY RENAULT LLP SENCRL SRL; PHILIP S JOHNSON JOHNSON AND JOHNSON; ROBERTS MLOTKOWSKI SAFRAN AND COLE PC; E RICHARD; ROBERTS MLOTLKOWSKI SAFRAN AND COLE PC

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

International class (IPC 8–9): A61B17/00 A61B17/04 A61B17/06 A61B17/064 A61B17/20 A61L17/00 A61M31/00 A61M37/00 (Advanced/Invention); A61B17/04 A61B17/064 (Advanced/Non–invention); A61B17/06 A61B17/064 A61B17/20 A61L17/00 A61M31/00 A61M37/00 (Core/Invention); A61B17/04 (Core/Non–invention)

International class (IPC 1–7): A61B17/0 A61B17/06 A61B17/20 A61M31/00 A61M37/00

CPC: A61B17/06 A61B17/06166 A61B2017/0458 A61B2017/0461 A61B2017/0464 A61B2017/06185 A61B17/0469 A61B2017/0404 A61B2017/0475 A61M37/00

European class: A61B17/06S A61M37/00 K61B17/04A2 K61B17/04A40L K61B17/04A40P K61B17/04A50 K61B17/04E K61B17/04E5 K61B17/06 K61B17/06S8

US class: 604/46 604/46S 604/500 604/500S 604/527 604/93.01 606/222 606/222P 606/228 606/228S 606/230

Classification Explorer

Cited documents: WO03017854 A1, WO0105210 A3, WO0105210 A2, US7875055 BB, US6626885 BB, US6626855 BA, US6626392 BB, US6565534 BA, US6520949 BB, US6371937 BA, US6368315 BA, US6365534 BA, US6350253 BA, US6264600 BA, US6264500 BA, US6152141 A, US5984933 A, US5919473 A, US5914973 A, US5891101 A, US5836962 A, US5797886 A, US5735829 A, US5691101 A, US5538735 A, US5458582 A, US5284481 A, US5100379 A, US5080652 A, US4880002 A, US4712553 A, US4673565 A, US4650473 A, US4232673 A, US4159720 A, US3918455 A, US3821956 A, US3474703 A, US3212502 A, US2006030883 AA, US2005125034 AA, US2005038472 AA, US2003028204 AA, US2002095133 AA, US2002029066 AA, GB1528955 A, FR2747908 A1,

Forward Citations: WO13130547, WO11000788, WO10074861, WO09011895, WO08116189, USRE45426, US9662415, US9597426, US9545191, US9498893, US9358012, US9295462, US9248580, US9237889, US9220492, US9125647, US9107660, US9080263, US9044301, US9044225, US9017378, US8961560, US8951284, US8932328, US8926659, US8916077, US8915943, US8889168, US8876865, US8876864, US8875607, US8865869, US8852232, US8821540, US8808754, US8795332, US8793863, US8777989, US8777988, US8777987, US8771313, US8764796, US8764776, US8747437, US8734485, US8721681, US8721664, US8709026, US8690914, US8679158, US8652170, US8641732, US8615856, US8518431, US8460338, US8257393, US8246652, US8226684, US8216273, US8211130, US8142475, US8128656, US8118834, US8083770, US8032996, US8028388, US8028387, US8020263, US8015678, US8011072, US7996968, US7996967, US7875055, US7740646, US7607557, US2015148729, US2014163611, US2013231700, US2013211430, US2012253363, US2011139853, US2011034867, US2011034388, US2009318962, US2009263451, US2009131979, US2008272012, US2008195147, US2008003299, US2007233188, US2006282099, US2006085036, US2006030883, US2005125034, KR101667511, KR101198196, KR100938318, JP2016198527, JP2015511502, JP2014504894, JP2008142536, JP2007283097, JP2006025867, EP3085313, EP2905008, EP2486886, EP2149358, EP1987796, EP1839594, EP1804843, EP1804843, AU2007201339,

Abstract:
Source: US2005125034A An active suture that can be used for both wound closure and the delivery of therapeutic fluids to the tissue surrounding a wound is disclosed. The active suture may include a connector designed to join a fluid source, such as a syringe or conventional IV delivery system, to an internal passageway that is embedded within a braided suture. The internal passageway may be comprised of a fine polymeric tube and is capable of conducting and emitting a fluid into at least a portion of the braided suture and surrounding tissue. The invention enables delivery of an efficacious volume of drug bearing solution on the order of milliliters per day, provides a high level of fluid delivery rate control enabling the physician to start or stop drug administration at his/her discretion, and offers a means of providing more than one type of medication that may be selected post−surgically in accord with unexpected patient symptoms that may arise.

231) Family number: 63842385 (WO16167832A1) © PatBase

Title: FILTRATION ASSEMBLY INCLUDING SPIRAL WOUND BIOREACTORS AND HYPERFILTRATION MEMBRANE MODULES

Priority: US20150148348P 20150416

Family:

Publication number	Publication date	Application number	Application date
WO16167832 A1	20161020	WO2015US51298	20150922

Probable Assignee: DOW GLOBAL TECHNOLOGIES LLC

Assignee(s):(std)**:** DOW GLOBAL TECH LLC ; DOW GLOBAL TECHNOLOGIES LLC

Inventor(s):(std)**:** JOHNSON JON E ; JONS STEVEN D

Agent(s): BLACK EDWARD W

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 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

International class (IPC 8–9): B01D61/04 C02F3/10 (Advanced/Invention)

CPC: B01D61/04 B01D63/12 B01D2311/04 B01D2311/2688 B01D2317/04 C02F3/101

Classification Explorer

Cited documents: WO9638387 A1, WO15002194 A1, WO14120589 A1, WO14066035 A2, WO13130312 A1, WO11026521 A1, US8778182 BB, US8758489 BB, US8608964 BB, US8496825 BA, US8425773 BB, US8388848 BB, US8388842 BB, US8377300 BB, US8142588 BB, US8110016 BB, US7951295 BB, US7875177 BB, US7311831 BB, US7208088 BB, US7198719 BB, US7144511 BB, US7063789 BB, US7048855 BB, US7045063 BB, US6881336 BB, US6878278 BB, US6632357 BA, US6632356 BB, US6299772 BA, US6224767 BA, US6187200 BA, US6165303 A, US6156680 A, US6074595 A, US6066254 A, US5919026 A, US5851356 A, US5851267 A, US5563069 A, US5538642 A, US5435957 A, US5128037 A, US4795559 A, US4476015 A, US4277344 A, US4214994 A, US4156645 A, US2012193287 AA, US2012132575 AA, US2008308504 AA, US2007272628 AA, JP2013202548 A2, FR2544995 A1, EP0127243 A1,

DE102012011816 A1

Abstract:
A filtration assembly including: i) a hyperfiltration assembly including: a high pressure vessel including a feed port, concentrate port and permeate port, and a plurality of serially arranged spiral wound hyperfiltration membrane modules; ii) a bioreactor assembly including: a plurality of spiral wound bioreactors each comprising a flat sheet having two opposing bio–growth surfaces and a feed spacer spirally wound about an axis (Y); and iii) a fluid flow pathway adapted for fluid connection with a fluid feed source and extending in a parallel flow pattern through the bioreactors, and subsequently into the feed port of the high pressure vessel, successively through the spiral wound hyperfiltration membrane modules in a serial flow pattern and out of the concentrate port and permeate port.

0) US2009326A – MANUFACTURE OF GLASS TUBING AND CANE

232) Family number: 30999366 (US2009326A) © PatBase

Title: MANUFACTURE OF GLASS TUBING AND CANE

Priority: US19310582860 19311223 US19330697351 19331109

Family:

Publication number	Publication date	Application number	Application date
DE584163 A	19330915		00000000
FR726857 A	19320604		19310126
FR750436 A	19330810		19321223
US1975737 A	19341002	US19330697351	19331109
US2009326 A	19350723	US19310582860	19311223

Probable Assignee: MIJ TOT BEHEER EN EXPLOITATIE

Assignee(s):(std)**:** LEOPOLDO SANCHEZ VELLO ; MIJ TOT BEHEER EN EXPLOITATIE

Assignee(s): TOT BEHEER EN EXPLOITATIE VAN OCTROOIEN MIJ ; MAATSCHAPPIJ TOT BEHEER EN EXPLOITATIE VAN OCTROOI ; MAATSCHAPPIJ TOT BEHEER EN EXPLOITATIE VAN OCTROOIEN

Inventor(s):(std)**:** LEOPOLDO SANCHEZ VELLO ; SANCHEZ VELLO LEOPOLDO

International class (IPC 8–9)**:** C03B17/04 (Advanced/Invention); C03B17/00 (Core/Invention)

International class (IPC 1–7)**:** C03B17/04

CPC: C03B17/04

European class: C03B17/04

US class: 65/134.9 65/174 65/187 65/86 65/87

Classification Explorer

Forward Citations: US8291730, US5766298, US4941904, US3578065, US3278286, US3257183, US3063268, US2952944, US2839872, US2765586, US2697852, US2604733, US2591304, US2462805, US2438448, US2009320528,

Abstract:
Source: US2009326A 1. The hereinbefore described method of forming glass tubing which comprises flowing the glass in tubular form through an orifice and around a mandrel, enlarging below the orince the diameter of the tube so formed and drawing the enlarged glass to a diameter less than the diameter of the orifice.

0) US2009095235A – HEAT EXCHANGER FOR A COMBINED BOILER, AND COMBI...

233) Family number: 33060659 (US2009095235A) © PatBase

Title: HEAT EXCHANGER FOR A COMBINED BOILER, AND COMBINED BOILER USING SAID HEAT EXCHANGER

Priority: IT2004TO00846 20041201 WO2005IB03604 20051111 WO2005IB03604 20051130

Family:

Publication number	Publication date	Application number	Application date
AT508333 E	20110515	AT20050810014T	20051130
CA2588748 AA	20070529	CA20052588748	20051130
DE602005027900 D1	20110616	DE200560027900T	20051130
EP1831609 A1	20070912	EP20050810014	20051130
EP1831609 B1	20110504	EP20050810014	20051130
ITTO20040846 A1	20050301	IT2004TO00846	20041201
US2009095235 AA	20090416	US20050720687	20051111
WO06059208 A1	20060608	WO2005IB03604	20051130
WO06059208 C1	20061026	WO2005IB03604	20051130

Probable Assignee: COSMOGAS SRL

Assignee(s):(std)**:** ALESSANDRINI ALBERTO ; COSMOGA S R L ; COSMOGAS S R L ; COSMOGAS SRL

Assignee(s): COSMOGA SRL

Inventor(s):(std)**:** ALESSANDRINI ALBERTO

Agent(s): MACRAE AND CO; GALLAROTTI FRANCO; HESLIN ROTHENBERG FARLEY AND MESITI PC

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

International class (IPC 8–9): F24D3/08 F24H9/14 F28D7/02 F28D7/14 (Advanced/Invention); F24D3/00 F24H9/14 F28D7/00 F28D7/10 (Core/Invention)

CPC: F24H9/142 F24H9/146 F28D7/14 F24D3/087 F24H1/52 F24H9/14 F28D7/024

European class: F24D3/08D F24H9/14 F28D7/02D F28D7/14 R24H1/52

US class: 122/20.00RP 122/20R 165/165

Classification Explorer

Cited documents: US7971560 BB, US7261149 BB, US6920919 BB, US6594447 BB, US5233970 A, US4858584 A, US3858646 A, US3674204 A, US334695 A, US3237608 A, US2204708 A, US2170507 A, US2162337 A, US2159284 A, US2126732 A, US2008149316 AA, US2006124285 AA, US2005274329 AA, US2005145370 AA, US2004188071 AA, US2004177950 AA, US2003001386 AA, US2001041063 AA, US1958736 A, US1932069 A, US1673918 A, US1667713 A, US1611764 A, US1465109 A, US1255835 A, EP1288588 A2, EP0905453 A2, EP0060338 A2, DE8912339 U, DE4236967 A1, DE10007873 C1,

Forward Citations: WO15162288, US9612036, US9366447, US2011308767, JP2015501397, EP2937657, EP2413044, CN102345927,

Abstract:
Source: US2009095235A An instantaneous heat exchanger for heating sanitary water in a combined boiler has a casing defining a chamber for a first fluid, within which there extends a conduit or tubing for a second fluid. At least one of the chamber and the conduit has a substantial capacity of containment of the respective fluid, preferably between three and six litres, and the heat exchanger is pre–arranged for hydraulic connection to a standardized connection assembly for an ordinary plate–type heat exchanger for a combined boiler.

0) GB758416A – APPARATUS FOR DEHYDRATION OF AQUEOUS SOLUTIONS ...

234) Family number: 19627660 (GB758416A) © PatBase

Title: Apparatus for dehydration of aqueous solutions and suspensions by freezing

Priority: 19530914

Family:

Publication number	Publication date	Application number	Application date
GB758416 A	19561003	GB19540023782	19540816

Probable Assignee: OHIO COMMW ENG CO

Assignee(s):(std): OHIO COMMW ENG CO

Assignee(s): THE COMMONWEALTH ENGINEERING COMPANY OF OHIO

International class (IPC 8–9): A23C1/06 (Advanced/Invention); A23C1/00 (Core/Invention)

International class (IPC 1–7): F26B5/06

CPC: A23C1/06

European class: A23C1/06

Classification Explorer

Abstract:
Source: GB758416A 758,416. Concentrating solutions by freezing. COMMONWEALTH ENGINEERING CO., OF OHIO. Aug. 16, 1954 [Sept. 14, 1953], No. 23782/54. Class 29. Aqueous solutions. are concentrated by freezing in successive stages refrigerated at progressively lower temperatures, each stage being performed in a tank 10... 14 refrigerated by hollow cylinders 25 through which refrigerant e.g. brine is passed, the mixture of ice crystals and concentrated solution being withdrawn after each stage through one of the pipes 31 to a common header 30 where the ice is separated from the solution which is forwarded to the next stage. Each tank contains an agitator 22 driven by a motor 23 and three cylinders 25. Solution is supplied to the first tank 10 through a connection 60 and flows from the header 30 to a sump 33 whence it can be withdrawn for use through connection 36 or supplied by a pump 39 to one or other of the tanks through electrically–actuated valves 51... 54 and connections 56... 59. Brine at a temperature below that of the coldest tank 14 is supplied from a tank 80 by a pump 81 and flows in parallel to each tank, where it flows in series through the three cylinders 25. The brine flow to each tank is controlled by a valve 87 (in Fig. 1, denoted by 101, 100, 102, 104, 103, respectively) actuated in response to the temperature of the brine leaving the last cylinder of the three, this temperature being detected by a thermal element 90 connected to an adjustable controller 94 which is set to the temperature which it is desired to maintain in the associated tank. A by–pass 96 around each valve 87 allows a small flow of brine through the system to ensure actuation of the control apparatus. Brine from the tanks is returned to tank 80 through pipes 75 and common pipe 76. In each cylinder the brine flows down a central tube 63, across the bottom and upwardly through an annular passage 62 containing a spiral baffle 68. To remove ice from the outer surface of the cylinder, hot air may be passed through it or an electric heater may be embodied in the baffle 68 and is intermittently supplied with current.

0) GB783468A – IMPROVEMENTS IN OR RELATING TO PUMP ASSEMBLIES ...

235) Family number: 20487894 (GB783468A) © PatBase

Title: Improvements in or relating to pump assemblies

Family:

Publication number	Publication date	Application number	Application date
GB783468 A	19570925	GB19550016146	19550606

Probable Assignee: BORG WARNER

Assignee(s):(std)**:** BORG WARNER

Assignee(s): BORG WARNER CORP

International class (IPC 8–9): B64D37/16 F04D9/00 (Advanced/Invention)

International class (IPC 1–7): F02M37/10

CPC: B64D37/16 F04D9/002

European class: B64D37/16 F04D9/00B2

Classification Explorer

Forward Citations: US3163119, US3068799, GB2259113,

Abstract:
Source: GB783468A 783,468. Centrifugal pumps. BORGWARNER CORPORATION. June 6, 1955 [Nov. 3, 1954], No. 16146/55. Class 110 (1). A pump comprises an impeller having one or more helicoidal vanes extending around a conical hub, the total length of the channel or channels defined by the vane or vanes being greater than any circumference of the impeller, and the cross–sectional area of the channel or channels decreasing continuously from the inlet towards the outlet. Fig. 1 shows a booster pump mounted by means of a flange 14 on the bottom wall of an aircraft fuel tank and driven by an electric motor 13. The impeller is of conical form, with spiral vanes 21, the relative inclination of the impeller hub 25 and the conical housing wall 23 being such that the cross–sectional area of the flow passages 22 between successive vanes 21 decreases from inlet to outlet. The resultant pressure increase condenses vapour contained in the fuel. Fuel enters the pump through a screen 15 and is discharged by way of a volute 18 to an outlet 20. Inlet guide vanes 16 are provided. Instead of being parallel to the plane of rotation of the impeller, the leading edges of the vanes 21 may be at an angle to it. The conical wall 23 may be replaced by a cylindrical wall. The impeller may be hollow so that vapour contained in the fuel can rise through the hollow impeller and escape back to the tank. In a modification, the pump is inverted and mounted below the bottom wall of the tank, with a screened inlet protruding into the tank.

236) Family number: 29939044 (US3386131A) © PatBase

Title: APPARATUS FOR THE CONTINUOUS TREATMENT OF RUBBER AND PLASTIC MATERIAL IN GENERAL

Priority:

FR19620904231	19620717	FR19620905924	19620802	FR19660072570	19660809
IT19610014855	19610719	IT19610017164	19611017	IT19650008880	19650910
IT19650020161	19650910	IT19610018778	19611017	IT19610013278	19610719

Family:

Publication number	Publication date	Application number	Application date
AT247593 B	19660610	AT19620005749	19620716
AT257141 B	19670925	AT19620007453	19620919
AT301148 B	19720825	AT19660008539	19660909
BE620366 A	00000000		00000000
BE686590 A	19670215		19660908
CH386688 A	19650115	CH19620009340	19620804
CH393718 A	19650615	CH19620008090	19620705
CH430160 A	19670215	CH19660006953	19660513
DE1454851 A	19721026	DE19621454851	19620717
DE1454851 B	19720316	DE19621454851	19620717
DE1454851 B1	19720316	DE19621454851	19620717
DE1454851 C2	19721026	DE19621454851	19620717
DE1454853 A1	19690904	DE19621454853	19621013
DE1604371 A1	19720210	DE19661604371	19660906
FR1329203 A	19630607	FR19620904231	19620717
FR82124 E	19631227	FR19620905924	19620802
FR90683 E	19680126	FR19660072570	19660809
GB1017183 A	00000000		00000000
GB1152000 A	19690514	GB19660039105	19660901
LU42078 A	19621031		19620717
LU51917 A	19661109	LU19660051917	19660909
NL279730 A	00000000		00000000
NL279834 A	00000000		00000000
NL6605096 A	19670313	NL19660005096	19660415
SE306822 B	19681209	SE19620008008	19620718
SE314498 B	19690908	SE19620009769	19620910
SE334014 B	19710405	SE19660012036	19660907
US3191229 A	19650629	US19620209618	19620713
US3386131 A	19680604	US19660558391	19660617

Probable Assignee: PIRELLI

Assignee(s):(std)**:** PIRELLI ; PIRELLI SPA

Assignee(s): PIRELLI SOCIETA PER AZIONI ; PIRELLI S P A ; INDUSTRIE PIRELLI S P A ; INDUSTRIE PIRELLI SPA

Inventor(s):(std)**:** VANZO MARCELLO DIPL ING ; VANZO MARCELLO ; VANZO M ; MARCELLO VANZO DIPL ING ; MARCELLO VANZO

Inventor(s): DIPL ING MARCELLO VANZO

International class (IPC 8–9)**:** A21C1/06 B29B7/42 B29B7/58 B29C47/02 B29C47/20 B29C47/38 B29C47/58 B29C47/60 B29C47/66 B30B11/24 (Advanced/Invention); B01F7/00 B01F7/02 (Advanced/Non–invention); A21C1/00 B29B7/30 B29B7/34 B29C47/02 B29C47/20 B29C47/38 B29C47/58 B29C47/60 B30B11/22 (Core/Invention);

	B01F7/00 B01F7/02 (Core/Non−invention)
International class (IPC 1−7):	B29B1/04 B29B1/06 B29B1/10 B29B5/02 B29F3/02 B29H1/10
CPC:	B29C47/0009 B29B7/428 B30B11/248 B29C47/20 A21C1/065 B01F7/00416 B01F7/02 B29B7/42 B29B7/424 B29B7/582 B29C47/02 B29C47/38 B29C47/585 B29C47/60 B29C47/66
European class:	A21C1/06B B29B7/42 B29B7/42F B29B7/42K B29B7/58B B29C47/02 B29C47/20 B29C47/38 B29C47/58B B29C47/60 B29C47/66 B30B11/24F L01F7/00B16D3 L01F7/00Y2B L01F7/02 L29C47/60
US class:	100/303 100/340 18/12 366/77 366/89 425/190 425/191 425/208 425/378.1 425/381
Classification Explorer	
Cited documents:	US42926 A, US3191229 A, US3102717 A, US2994105 A, US2838794 A, US2807832 A, US2763896 A, US2702410 A, US2566854 A, US2556391 A, US2505125 A, US2485854 A, US2422722 A, US2262989 A, US2224212 A, US2011055 A, US1769730 A, US1745291 A, US1066722 A, GB942260 A, FR932476 A, FR1003469 A, DE920270 A, CA598005 A,
Forward Citations:	WO15007906, WO08135757, WO05039847, US9248419, US8851737, US7556419, US6921191, US6168410, US5503788, US5366680, US4863366, US4678343, US4558985, US4269115, US4188873, US4092089, US3693533, US3685429, US3422748, US3386131, US2012063259, US2007159916, US2004037160, JP5745689, JP49008560, JP2013161229, GB2462560, GB2462560, FR3008640, FR2348045, EP1677959, EP0692356, EP0218864, CN101954732,

Abstract:
Source: GB1017183A 1,017,183. Pug−mills. PIRELLI S.p.A. June 25, 1962 [July 19, 1961; Oct. 17, 1961], No. 24257/62. Heading B1C. [Also in Division B5] A rubber mixer has a frusto−conical screw 5, Fig. 1 (not shown), with a spiral−helical flight 7, arranged in a frusto−conical housing 4 in such a manner as to form at least one chamber 12 in which material can circulate; as depicted, the cone angle of the screw is less than that of the housing, to which the screw is tangential along a line, so that the volume of the channel in the screw decreases towards the discharge end and there is an angle between the axes of the screw and housing; the single chamber 12 thus formed is crescentshaped in cross−section. Alternative arrangements could comprise a screw of circular cross−section in a housing of elliptical or triangular cross−section, or a screw of elliptical or triangular cross−section in a housing of circular cross−section, providing more than one chamber. In the embodiment of Fig. I the screw has a cylindrical extension 10 carried in an outrigger bearing 9, and the size of the annular discharge gap 3 (and hence the intensity of mixing) may be varied by adjusting the sleeve 20. The product is extruded as a tube which is cut into a helical strip by a fixed knife 28 (see Fig. 3, not shown). Both the screw and the housing have chambers for a heat exchange fluid; the screw may have a single− or multi−start helix and the flight may be thickened to provide increased shear effect (see Figs. 5 and 6, not shown). In other embodiments the screw may have a cyindrical screw extension fitting closely in a cylindrical housing and forming an extrusion section, and the material may be extruded as a rod or other shaped section through a detachable die (see Figs. 7 and 8, not shown).

0) US2008275301A – SIGMOIDOSCOPE WITH INTEGRAL OBTURATOR

237) Family number: 31337552 (US2008275301A) © PatBase

Title: SIGMOIDOSCOPE WITH INTEGRAL OBTURATOR

Priority: AU20030902258 20030509 WO2004AU00610 20040510

Family:

Publication number	Publication date	Application number	Application date
AU2003902258 A0	20030529	AU20030902258	20030509
US2008275301 AA	20081106	US20040579963	20040510
WO04098395 A1	20041118	WO2004AU00610	20040510

Probable Assignee: DALTRAY PTY LTD

Assignee(s):(std)**:** DALTRAY PTY LTD ; LUBOWSKI DAVID ; MARSH PETER CRISPIN

Inventor(s):(std)**:** LUBOWSKI DAVID ; MARSH PETER CRISPIN

Agent(s): LEYDIG VOIT AND MAYER LTD

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 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

International class (IPC 8–9): A61B1/31 (Advanced/Invention); A61B1/32 A61B17/02 A61B17/34 A61B19/00 (Advanced/Non–invention); A61B1/31 (Core/Invention); A61B1/32 A61B17/02 A61B17/34 A61B19/00 (Core/Non–invention)

International class (IPC 1–7): A61B1/31

CPC: A61B90/40 A61B1/31 A61B1/32 A61B17/0218 A61B17/3439

European class: A61B1/31 K61B1/32 K61B17/02E K61B17/34G4H K61B19/38

US class: 600/130 600/130P 600/138 600/138S 600/160 600/160S

Classification Explorer

Cited documents: US6743206 BA, US6350233 BA, US6258064 BA, US6053877 A, US5817062 A, US5814073 A, US5591190 A, US5462062 A, US5354302 A, US5176127 A, US5104382 A, US4905667 A, US4639772 A, US3889661 A, US3779233 A, US2621651 A, US2003195405 AA, SU1581267 T,

Forward Citations: WO14148898, WO14039235, WO10065901, WO07130276, WO07130276, WO06050574, USD752217, USD735343, USD719652, USD717340, USD716841, US9585813, US9538908, US9517184, US9433339, US9198835, US9161839, US8517931, US8465515, US8425532, US8131380, US8128559, US2010268241, US2008208188, NL2010498, EP2381869, AU2013313246,

Abstract:
Source: US2008275301A A medical instrument used as a sigmoidoscope (1) for internal examination of the rectum and sigmoid colon of a patient. The instrument includes an outer tubular member in the form of a speculum (2) having a forward insertion end (3) and a rearward observation end (4). An inner tapered guide tube (10) is disposed at least partially within the speculum (2). A retractable obturation tube (15) is disposed between the speculum (2) and the inner guide tube (10) for relative movement between a retracted position substantially within the speculum (2) and an extended position in which the obturation tube (15) protrudes longitudinally beyond the forward end (3) of the speculum (2).

0) US4700716A – COLLINEAR ANTENNA ARRAY APPLICATOR

238) Family number: 18951938 (US4700716A) © PatBase

Title: COLLINEAR ANTENNA ARRAY APPLICATOR

Priority: AU19880010469 19880909 US19860834199 19860227 WO1987US02306 19870909 US19870100465 19870924 US19900550341 19900709 US19880195584 19880518 WO1989US02154 19890518

Family:

Publication number	Publication date	Application number	Application date
AU198810469 A1	19890417	AU19880010469	19870909
AU198936969 A1	19891212	AU19890036969	19890518
EP0385978 A1	19900912	EP19880900157	19870909
EP0385978 A4	19910821	EP19880900157	19870909
EP0415997 A1	19910313	EP19890906235	19890518
EP0415997 A4	19920408	EP19890906235	19890518
US4700716 A	19871020	US19860834199	19860227
US4776086 A	19881011	US19870100465	19870924
US5057106 A	19911015	US19900550341	19900709
WO8902292 A1	19890323	WO1987US02306	19870909
WO8911311 A1	19891130	WO1989US02154	19890518

Probable Assignee: KASEVICH ASSOCIATES INC

Assignee(s):(std)**:** KASEVICH ASSOCIATES INC

Assignee(s): KASEVICH ASSOCIATES INC 175 V NEW BOSTON STREET WO ; KASEVICH ASSOCIATES INC 175 V NEW BOSTON STREET WOBURN MASSACHUSETTS 01888 1859 A MASSACHUSETTS CORP

Inventor(s):(std)**:** RONALD H CROOKER ; RAYMOND S KASEVICH ; JAMES F MCQUEENEY ; MCQUEENEY JAMES F ; KASEVICH RAYMOND S ; CROOKER RONALD H

Designated states: AT AU BE BR CH DE FR GB IT JP LI LU NL SE

International class (IPC 8–9): A61B17/00 A61B17/22 A61B18/18 A61M29/02 A61N5/04 H01Q21/08 (Advanced/Invention); A61B17/00 A61B17/22 A61M29/02 H01Q21/08 (Advanced/Non–invention); A61B18/18 H01Q21/08 (Core/Invention); A61B17/00 A61B17/22 A61M29/02 (Core/Non–invention)

International class (IPC 1–7): A61N5/02 A61N5/04 H01B13/20

CPC: A61B2017/00057 A61B2017/00084 A61B2017/00853 A61B2017/22001 A61B2017/22051 A61B2017/22062 A61B2018/1861 A61M25/104 Y10T29/49123 E21B43/2401 A61B18/18 A61B18/1815 A61B2018/00285 A61B2018/00577 A61B2018/00738 H01Q21/08

European class: A61B18/18 A61B18/18M E21B43/24B H01Q21/08 K61B17/00C1L K61B17/00C1T K61B17/00S6 K61B17/22A K61B17/22H K61B17/22H6 K61B18/00B16A2 K61B18/00G1 K61B18/00H10G K61B18/18M6 K61M25/10P

US class: 174/75C 174/88C 219/748 29/828 298/280 333/237 439/578 439/585 600/549 606/2 606/33 607/101 607/113 607/122 607/156

Classification Explorer

Cited documents: US4700716 A, US4681122 A, US4662383 A, US4660007 A, US4658836 A, US4643186 A, US4619940 A, US4612940 A, US4600018 A, US4583556 A, US4403618 A, US4374458 A, US4358764 A, US4345370 A, US4341227 A, US4271848 A, US4249445 A, US4240445 A, US4204549 A, US4138188 A, US3810186 A, US3800802 A, US3230957 A, SU787043 T, GB2122092 A1, GB1188490 A, FR2303517 A1, EP0251745 A1, EP0105677 A1, DE3516830 A1,

Forward Citations: WO9840017, WO9818393, WO9809163, WO9741924, WO9639914, WO9510327, WO9510326, WO9423794, WO9418896, WO9322977, WO9322977, WO9321846, WO9320893, WO9309724, WO9302748, WO9207621, WO9113650, WO9111975, WO9006079, WO8902292, WO16112240, WO16073072, WO15079322, WO13043924, WO12007854, WO11001408, WO10138856, WO09072060, WO08150650, WO07024942,

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Abstract:
Source: US4700716A A microwave collinear antenna array applicator for in situ or in vivo treatment of tumors and/or other materials by hyperthermia is disclosed. The array consists of a plurality of harmonically related resonant coaxial antenna elements connected electrically in series to provide uniform heating along the entire length of the array. At the distal end of the array, a resistor may be provided at the inner conductor for steering the heating pattern. At the proximal end of the array, an impedance matching dielectric structure is provided to enable maximum power transfer to the array and to minimize stray leakage currents along the outside of the coaxial transmission line. The array may be made longer or shorter without changing frequency and therefore depth of penetration by simply adding or subtracting half−wave resonant elements or sections of coaxial transmission line. A lossy sleeve member may be provided around the applicator to provide a localized source of heat.

0) WO03051184A1 – OPTICAL GUIDEWIRE HAVING WINDOWS OR APERTURES ...

239) Family number: 28691253 (WO03051184A1) © PatBase

Title: OPTICAL GUIDEWIRE HAVING WINDOWS OR APERTURES

Priority: US20010024986 20011218 WO2002US40572 20021218

Family:

Publication number	Publication date	Application number	Application date
AU2002364069 AA	20030630	AU20020364069	20021218
WO03051184 A1	20030626	WO2002US40572	20021218

Probable Assignee: ADVANCED CARDIOVASCULAR SYSTEM

Assignee(s):(std)**:** ADVANCED CARDIOVASCULAR SYSTEM

Assignee(s): ADVANCED CARDIOVASCULAR SYSTEMS INC

Inventor(s):(std)**:** JALISI MARC M ; NORTON SUSAN ; PHILLIPS KEVIN M ; SEIFFERT DOUGLAS J ; SPECK MARC L ; CHUDY ANDREJ M ; WEBLER WILLIAM E ; WHITT MICHAEL D

Inventor(s): WILLIAM E WEBLER ; DOUGLAS J SEIFFERT ; ANDREJ M CHUDY ; SUSAN NORTON ; KEVIN M PHILLIPS ; MARC L SPECK ; MARC M JALISI ; MICHAEL D WHITT

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

International class (IPC 8–9): A61B1/00 A61B1/005 A61B1/313 A61B5/00 A61M25/09 (Advanced/Invention)

International class (IPC 1–7): A61B1/00 A61B1/005 A61B1/313 A61B5/00

CPC: A61B1/00071 A61B1/00165 A61B1/005 A61B1/3137 A61B5/0084

European class: A61B1/005 A61B1/00E4 A61B1/00S2 A61B1/313F A61B5/00P12B

Classification Explorer

Cited documents: WO0111409 A2, DE19523959 A1,

Forward Citations: WO15195225, WO09116969, US9504373, US9072455, US9005115, US8708896, US8162824, US2012316433, EP2767217, EP2499959, CN105050478,

Abstract:
The invention provides optical guidewires (10) for obtaining optical radiation from within a body lumen. The optical guidewire includes an optical fiber (20) attached to a ferrule (12), and a hollow shaft (14) with at least one window (16) or aperture (18). The proximal end of the shaft is configured to engage the ferrule with either a releasable engagement (allowing the ferrule to rotate after separating from the shaft), or a rotating engagement (allowing the ferrule to rotate without separating from the shaft). The windows (16) or apertures (18) may be circular, square, rectangular, hexagonal, or other shapes, and may be placed in an equatorial, spiral, or other pattern around the shaft or at the distal tip of the shaft. A window may be translucent or transparent, and preferably has an index of refraction of about 1.34, similar to blood plasma. The optical fiber rotates within the shaft adjacent the window or aperture to provide an optical scan.

0) US3139466A – METHODS AND APPARATUS FOR MOLDING PLASTIC FOAM ...

240) Family number: 753443 (US3139466A) © PatBase

Title: METHODS AND APPARATUS FOR MOLDING PLASTIC FOAM OBJECTS

Priority: FR19610856945 19610327 GB19600010858 19600328

Family:

Publication number	Publication date	Application number	Application date
FR1289683 A	19620406	FR19610856945	19610327
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NL262913 A	00000000		00000000
US3139466 A	19640630	US19610095267	19610313
US3221366 A	19651207	US19640346346	19640220

Probable Assignee: DAVID BLOOM

Assignee(s):(std)**:** DAVID BLOOM

Inventor(s):(std)**:** BLOOM DAVID ; COUCHMAN TIMOTHY ; LINGWOOD ROBERT NEVIL GARROD ; TIMOTHY COUCHMAN

International class (IPC 8–9): B29C44/44 B29C44/58 (Advanced/Invention); B29C44/34 (Core/Invention)

International class (IPC 1–7): B29C3/00 B29D27/00

CPC: Y10S264/10 Y10S425/812 B29L2031/7132 B29C44/445

European class: B29C44/44B B29C67/22B14 L29L31/7132

US class: 264/121 264/51 264/53 264/DIG.10 425/186 425/548 425/567 425/588 425/589 425/812 425/817R

Classification Explorer

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Abstract:
Source: US3139466A 973,471. Moulding articles of foamed resins. D. BLOOM. March 22, 1961 [March 28, 1960], No. 10858/60. Heading B5A. In a method of moulding articles of expanded plastics material, e.g. polystyrene, the mould is preheated and charged with material while substantially closed, the material then being expanded in the mould, the charging of the mould being effected by a stream of compressed air, which entrains the expandable material and carries it into the mould. The moulds are formed in two parts 10, 12, Figs. 1, 3, 4, and are mounted in alignment on supports 14, 16 respectively, which contain adjustable spaced bars 28 so that a variety of different moulds may be accommodated. Each mould part 10, 12 is mounted on a flange 18, which is secured to the bars 28 either by bolts 19, Fig. 1, with packing pieces 23 if required, or by the use of clamping pieces 20 and bolts 22, Fig. 3, in which case dowels 21 are provided to position the mould parts accurately in holes in the bars 28. The support 16 is fixed and the support 14 is reciprocated on bars 36 to open and close the moulds by actuation of an hydraulic cylinder 40 and piston 42, connected to the support 14 by a connecting rod 48 with an adjustable threaded portion 50. Each mould part 12 is fitted with a charging device C. Heating and cooling mould parts (Figs. 3, 4).– The mould parts 10, 12 are heated by steam supplied to pipes 74, 84 respectively and leaving through pipes 76, 86. Holes 92 in the mould part 10 allow the steam to heat the closed mould space. Alternatively, the mould parts may be cooled by circulation of cooling water. In addition a filling orifice 66 is provided in the mould part 12. Mould charging device (Fig. 6).–This comprises a tube 94 connected with the orifice 66 by the use of a flange 100. A junction tube 95, part of which is preferably transparent, and a flexible duct 96 lead to a bin 98, Fig. 1, containing granular partially pre–expanded material. A hollow collar 104 is provided on the tube 94 and communicates with the inside of the tube 94 by means of drillings 108 which are made at an angle to the axis of the tube 94 and at an angle to the diameter thereof to enable compressed air supplied to pipe 106 to create a

vortex of air in the tube 94, so lowering the pressure in the tube 95, so that material is drawn up through the duct 96. V−shaped vents 110 are provided in the tube 94 to allow escape of some, but not all, of the air flowing therethrough, and a slip ring (not shown) may be fitted over the vents 110, the slip ring being provided with slots to register with the vents 110, so that the escape of air may be regulated. A cooling sleeve 124 is also provided and water circulated therethrough to ensure that material in the tube 94 does not expand before entry into the mould. After filling of the mould a piston 144 is moved through the tube 94 and into the orifice 66, Fig. 4, by operation of an hydraulic cylinder 134, screw−threadedly mounted on the tube 94. The tube 94 may project beyond the flange 100. Operation.−The moulds are closed by operation of the cylinder 40 so that a stop 56, Fig. 1, passes under a catch 52. The fluid supply to the cylinder 40 is reversed and the moulds are held slightly open by the engagement of the stop 56 and catch 52. The mould parts and the mould space are heated by steam and the mould space is allowed to dry out thereafter, compressed air then being supplied to the collar 104 to blow material into the moulds. The gap between seatings 60, 62, Figs. 3, 4, on the mould parts 10, 12 respectively is not large enough to allow escape of the granules of material which are trapped in the mould and start to expand. When the mould is full, air can no longer pass therethrough due to the expanded material, so air which cannot escape through the vents 110 passes back down the tube 95. The piston 144 is then advanced and steam again supplied to the mould parts to complete the expansion, after which cooling water is circulated in the mould parts. The mould is then opened to remove the finished article.

0) WO9962429A1 – SELF–EXPANDING VASCULAR PROSTHESIS IN PARTICULA...

241) Family number: 11468445 (WO9962429A1) © PatBase

Title: SELF–EXPANDING VASCULAR PROSTHESIS IN PARTICULAR FOR INTRACRANIAL ANEURYSM

Priority: WO1998FR01117 19980603

Family:

Publication number	Publication date	Application number	Application date
AU199880255 A1	19991220	AU19980080255	19980603
WO9962429 A1	19991209	WO1998FR01117	19980603

Probable Assignee: FOUERE ALAIN

Assignee(s):(std)**:** FOUERE ALAIN ; GRATIER CHRISTIANE

Assignee(s): ALAIN FOUERE ; CHRISTIANE GRATIER

Inventor(s):(std)**:** FOUERE ALAIN ; GRATIER CHRISTIANE

Inventor(s): ALAIN FOUERE ; CHRISTIANE GRATIER

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GE GH GM GN GR HU ID IE IL IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW

International class (IPC 8–9): A61F2/00 A61F2/06 A61F2/84 A61F2/88 A61F2/95 A61F2/958 (Advanced/Invention); A61F2/00 A61F2/958 (Advanced/Non–invention); A61F2/06 A61F2/82 (Core/Invention); A61F2/00 (Core/Non–invention)

International class (IPC 1–7): A61F2/06

CPC: A61F2/88 A61F2/95 A61F2/958 A61F2210/0019 A61F2250/0098

European class: A61F2/06S2 A61F2/06S6C A61F2/88 A61F2/95 K61F2/06S2B K61F2/958 K61F210/00D2 K61F250/00W99C

Classification Explorer

Cited documents: WO9618359 A1, WO9523564 A1, WO9315661 A1, WO9311825 A1, WO9206734 A1, US5180362 A, US4878906 A, SU1768154, GB2281865 A1, EP0221570 B1,

Forward Citations: US9622753, US9539122, US9023094, US8715312, US8562667, US7572288, FR2797176, CN102451051,

Abstract:
The invention concerns a self–expanding vascular prosthesis in particular for intracranial aneurysm shaped like a cylindrical sleeve (2) and consisting of a helically wound thin elastic metal ribbon whereof the external diameter when manufactured is substantially greater than the treated vessel (6) internal diameter and capable of being compressed by increasing the number of coils to be inserted in a catheter to be for setting it in place, the expansion resulting from the ribbon being unwound when the sleeve is ejected from the catheter by a thruster provided therefor and sliding in the catheter. Said prosthesis is designed to be surgically set in an artery to prevent locally risks of internal haemorrhage caused by a burst aneurysm, and particularly designed to be used in cervical vessels.

0) NL7608927A – SCHROEFPAAL EN WERKWIJZE TOE TE PASSEN BIJ HET ...

242) Family number: 1449557 (NL7608927A) © PatBase

Title: SCHROEFPAAL EN WERKWIJZE TOE TE PASSEN BIJ HET IN DE GROND BRENGEN VAN EEN DERGELIJKE SCHROEF– PAAL. SCREW THREADED FOUNDATION PIPE – HAS SPIRAL BLADES AT INTERVALS IN AXIAL DIRECTION GREATER THAN PITCH OF SPIRAL

Priority: NL19760008927 19760811

Family:

Publication number	Publication date	Application number	Application date
BE857568 A2	19780208	BE19772056140	19770808
NL7608927 A	19780214	NL19760008927	19760811

Probable Assignee: FUNDEX PVBA

Assignee(s):(std)**:** FUNDEX PVBA

Assignee(s): FUNDEX PVBA TE ST MICHIELS BRUGGE BELGIE ; FUNDEX P V B A ; FUNDEX P V B A TE ST MICHIELS BRUGGE BELGIE

International class (IPC 8–9)**:** E02D5/56 E02D7/22 (Advanced/Invention); E02D5/22 E02D7/00 (Core/Invention)

International class (IPC 1–7)**:** E02D5/56 E02D7/22

CPC: E02D5/56 E02D7/22

European class: E02D5/56 E02D7/22

Classification Explorer

Forward Citations: WO9518892, US5833399, EP0747537, BE1009519,

Abstract:
Source: NL7608927A The screw–type pile has a blade following a spiral path, by means of which it is driven into the ground. There are a number of spiral blades (2) fixed to the pile (1) at intervals in the axial direction, the intervals concerned being the pitch of the spiral. Each blade can extend through one complete turn, with its ends overlapping. The blades can alternatively extend each through several turns, and their ends can be offset in relation to each other in the peripheral direction. The distance between the multi–turn first blade and the second one can be designed to suit the structure of the subsoil into which the pile is driven.

0) EP0301165A2 – METABOLISM APPLIANCE. EINRICHTUNG ZUR STOFFWECH...

243) Family number: 45014418 (EP0301165A2) © PatBase

Title: METABOLISM APPLIANCE.

Priority: DE19873708031 19870310 DE19873708857 19870317 DE19883806574 19880226
DE19873713846 19870422 DE19873730469 19870908 GB19880018491 19880803
JP19860211352 19860908 US19860866325 19860424 IN1986CA00232 19860320

Family:

Publication number	Publication date	Application number	Application date
AU198812882 A1	19880915	AU19880012882	19880310
DE3708031 A1	19871112	DE19873708031	19870310
DE3708857 A1	19880929	DE19873708857	19870317
DE3713846 A1	19880414	DE19873713846	19870422
DE3730469 A1	19880616	DE19873730469	19870908
DE3806574 A1	19890907	DE19883806574	19880226
DE3925940 A1	19900531	DE19893925940	19890803
EP0301165 A2	19890201	EP19880103775	19880310
EP0301165 A3	19910502	EP19880103775	19880310
GB2222251 A1	19900228	GB19880018491	19880803
GB8818491 A0	19880907	GB19880018491	19880803
GB8919437 A0	19891011	GB19890019437	19890803

Probable Assignee: WAGNER WOLFGANG DR MED 1000 BERLIN DE

Assignee(s):(std)**:** WAGNER W ; WAGNER WOLFGANG ; WAGNER WOLFGANG DR MED

Assignee(s): WAGNER WOLFGANG DR MED 1000 BERLIN DE ; WAGNER WOLFGANG DRMED ; WOLFGANG WAGNER ; W WAGNER

Inventor(s):(std)**:** WAGNER WOLFGANG ; WAGNER WOLFGANG DR MED

Inventor(s): WOLFGANG WAGNER ; WOLFGANG WAGNER ; WAGNER WOLFGANG DRMED

Agent(s): MRS RJK CHAPMAN

Designated states: AT BE CH DE ES FR GB GR IT LI LU NL SE

International class(IPC 8–9)**:** A61B5/00 A61B5/103 A61B5/15 A61M5/14 A61M5/168 A61M5/42 (Advanced/Invention); A61M5/172 F02B3/06 (Advanced/Non–invention); A61B5/00 A61B5/103 A61B5/15 A61M5/14 A61M5/168 A61M5/42 (Core/Invention); A61M5/168 F02B3/00 (Core/Non–invention)

International class(IPC 1–7)**:** A61B10/00 A61B5/00 A61B5/14 A61J7/00 A61M1/00 A61M5/00 A61M5/14 A61M5/20 A61M5/31 G01N1/14 G01N33/48

CPC: A61B5/15113 A61B5/15117 A61B5/1519 A61B5/1455 A61B5/441 A61M5/16831 A61M5/1723 A61M5/425 F02B3/06 A61B5/150412 A61B5/150022 A61B5/150068 A61B5/150099 A61B5/150389 A61B5/150503 A61B5/150755 A61B5/14532

European class: A61B5/1455 A61B5/145G A61B5/14B2 A61B5/44B A61M5/168D A61M5/42C K61M5/172B K61M5/42C R02B3/06

Classification Explorer

Cited documents: WO8601728 A2, US4576603 A, US4396382 A, US4114617 A, US2646799 A, US2559231 A, JP62101226 A2, FR2569976 A1, EP0221005 A2, EP0199484 B1, EP0145825 A1, EP0135840 A2, EP0133471 A1, EP0103664 A1, DE8321199 U, DE3445587 A1, DE3244151 A1, DE3142075 A1, DE2951106 C2, DE2907479 A1, DE2803345 B1, DE2741913 A1, DE2551993 A1, DE2551992 A1, DE2551991 A1, DE2255879 A1,

Forward Citations: WO9824366, WO9510223, WO9510223, WO9300044, WO07104445, WO07015247, WO07015247, WO05096942, WO05000118, WO04064636, WO0187389, US9538941, US8998855, US8905971, US8740813, US8696596, US8690798, US8685714, US8640916, US8404102, US8372103, US8343074, US8323464, US8231549, US8192599, US8123701, US8016154, US8001825, US7901363, US7841991, US7828749, US7771374, US7762965, US7762964, US7758518, US7758516, US7749371, US7740651, US7740600, US7740599, US7731668, US7727168,

US7678580, US7666150, US7264627, US7247144, US7235056, US7182910, US7137957, US7137957, US7066885, US7060054, US7041067, US7014615, US7001343, US6997886, US6969359, US6940591, US6939312, US6899851, US6860873, US6837858, US6817988, US6793633, US6780651, US6712776, US6706000, US6624882, US6614522, US6612111, US6602205, US6464649, US6455324, US6332871, US6319210, US6306104, US6283926, US6206841, US6203504, US6183489, US6162639, US6152889, US6099484, US6093156, US6091975, US6090070, US6080116, US6071251, US6071250, US6071249, US6066103, US6063039, US6048352, US6027459, US6015392, US5964718, US5951493, US5879367, US5879311, US5857983, US5820570, US5746217, US5682233, US5680872, US5582184, US5320607, KR100711534, GB2309644, GB2309644, EP2269510, EP2269510, EP2160981, EP2111793, EP1884191, EP1639938, EP1621132, EP1585444, EP1579814, EP1522260, EP1342448, EP1276412, EP1276412, EP1161961, EP1112717, EP0955914, EP0955914, EP0946122, EP0904022, EP0904022, EP0861670, EP0861670, EP0800841, EP0798004, EP0671146, EP0671146, EP0555554, DE29913417, DE19858426, DE19519281, DE19519278, DE102014226381, DE102009051993, DE10101932, CZ301175, AU782964, AU687912, AU2001249467,

Abstract:
Appliance in continuation of laid−open specification WO 86/01728 and Japanese Application J 211352/86 for metabolic control, in particular in diabetics, the substance measurements, in particular of the blood glucose, being carried out alone or else in combination with an injector influenced by the substance measurement results, using a control device and a switching gear for the automatic functioning (on account of the problems, which have obviously not yet been adequately solved, in respect of injury−free substrate determination by means of laser light) preferably using a type of sensor canula (or a puncture stylus) for low−injury aspiration of blood, using a suction channel (preferably as a pressure compensation channel) using a suction cup in connection with a reliable vacuum source, so that it is possible, after a controlled duration of action of the blood inside a reaction chamber on an indicator layer, in this case preferably an optical version, to remove the blood therefrom and to convey light measurement changes from the indicator layer to a reflex photometer, which can be situated in a separate housing; in the case of an intended improvement in metabolism by injection, preferably through the same cannula support used for obtaining blood, via at least one tube−integrated metering device, preferably near the cannula, in the presence of at least two equivalent liquid containers with valve coupling per medicament type for a low−residue administration of different quantities of liquid, with inclusion of a reflex−photometric control in order to prevent puncturing of pathologically altered skin.

0) US4818551A – METHOD OF MAKING A LIQUID SMOKE IMPREGNATED SHI...

244) Family number: 24157832 (US4818551A) © PatBase

Title: Method of making a liquid smoke impregnated shirred casing stick

Priority: CA19880585076 19881206 JP19880320774 19881221 US19860893514 19860805 US19880183214 19880419

Family:

Publication number	Publication date	Application number	Application date
CA1325131 A1	19931214	CA19880585076	19881206
JP1741512 C3	19930315	JP19880320774	19881221
JP2190140 A2	19900726	JP19880320774	19881221
JP4028329 B4	19920514	JP19880320774	19881221
US4818551 A	19890404	US19880183214	19880419

Probable Assignee: VISKASE CORP

Assignee(s):(std)**:** VISKASE CORP

Assignee(s): CONTINENTAL BANK NA ; CITICORP NORTH AMERICA INC ; GENERAL MOTORS EMPLOYEE GLOBAL GROUP PENSION TRUST ; DP KELLY AND ASSOCIATES ; LASALLE BANK NATIONAL ASSOCIATION ; VISKASE COMPANIES INC ; STALL ALAN DAVID ; WELLS FARGO FOOTHILL INC ; WATTS KEITH ARTHUR ; ARNOS CORP ; BISUKEISU CORP ; BT COMMERCIAL COLLATERAL AGENT CORP AS ; BT COMMERCIAL CORP ; CIT GROUP BUSINESS CREDIT INC

Inventor(s):(std)**:** ARAN DEIBITSUDO SUTOORU ; KIISU AASAA UOTSUTSU ; WATTS KEITH A ; STALL ALAN D

Inventor(s): STALL ALAN DAVID ; WATTS KEITH ARTHUR

Agent(s): SIM AND MCBURNEY

International class (IPC 8–9): A22C13/00 A22C13/02 B29C53/08 (Advanced/Invention); B29L23/00 (Advanced/Non–invention)

International class (IPC 1–7): A22C13/00 A22C13/02 B29C53/08 B29L23/00

CPC: A22C13/02 A22C2013/0096 A22C2013/0046

European class: A22C13/02 K22C13/00L K22C13/00Z

US class: 138/118.1 426/135 426/138 426/420 426/534 452/27

Classification Explorer

Cited documents: US4525397 A, US3981046 A, US3798302 A, US3454981 A, US3451827 A, US3209398 A, US2984574 A, US1993480 A, US1876279 A, US1616971 A, CA713510 A,

Forward Citations: WO9808390, WO9808390, WO13030424, WO07132044, US9596866, US9392801, US7833594, US7718207, US7507150, US7134954, US7134954, US7011858, US7001635, US6283846, US6086929, US5975301, US5914141, US5782683, US5270067, US5230933, US5007878, US2009220655, US2007148294, US2006128293, US2006083827, US2006040602, US2004202762, US2004062888, US2004062834, US2003207002, US2003039724, US2002039611, EP2025234, EP2025234, EP0559456,

Abstract:
Source: US4818551A A shirred stick composed of unreinforced casing impregnated with liquid smoke. The stick has no twist which eliminates rope and gives the stick a smooth, blemish free outer peripheral surface. The method of making the stick requires placement of the shirred stick on a dowel immediately after shirring, holding it on the dowel for a period of time sufficient for moisture to migrate uniformly throughout the stick and then removing the dowel.

0) WO0007519A1 – DEVICE FOR INSEMINATING ANIMALS, MAINLY SOWS VO...

245) Family number: 30250187 (WO0007519A1) © PatBase

Title: DEVICE FOR INSEMINATING ANIMALS, MAINLY SOWS

Priority: DE19982013921U 19980804 DE19992024595U 19990717 DE19995009533 19990717 WO1999EP05112 19990717 EP19990936562 19990717

Family:

Publication number	Publication date	Application number	Application date
AT266981 E	20040615	AT19990936562T	19990717
AU199951610 A1	20000228	AU19990051610	19990717
AU199951610 A5	20000228	AU19990051610	19990717
DE29813921 U1	19981008	DE19982013921U	19980804
DE29924595 U1	20040401	DE19992024595U	19990717
DE59909533 D1	20040624	DE19995009533	19990717
DK1100400 T3	20040906	DK19990936562T	19990717
EP1100400 A1	20010523	EP19990936562	19990717
EP1100400 B1	20040519	EP19990936562	19990717
ES2222034 T3	20050116	ES19990936562T	19990717
WO0007519 A1	20000217	WO1999EP05112	19990717

Probable Assignee: KISFELD ALFONS 48691 VREDEN DE

Assignee(s):(std)**:** ALFONS KISFELD ; KISFELD ALFONS

Assignee(s): KISFELD ALFONS 48691 VREDEN DE

Inventor(s):(std)**:** ALFONS KISFELD ; KISFELD ALFONS

Designated states: AL AM AT AU AZ BE BG BR BY CA CH CN CY CZ DE DK EE ES FI FR GB GE GR HU ID IE IL IS IT JP KG KR KZ LI LT LU LV MC MD MK MX NL NO NZ PL PT RO RU SE SI SK TJ TM TR UA US UZ VN YU ZA

International class (IPC 8–9): A61D19/02 (Advanced/Invention); A61D19/00 (Core/Invention)

International class (IPC 1–7): A61D19/02 A61D19/2

CPC: A61D19/027

European class: A61D19/02D

Classification Explorer

Cited documents: FR2762506 A1, DE29505177 U1, DE29505177 U, DE2701998 A1, DE1766902 A1,

Forward Citations: WO10003390, WO09097872, US9422523, US9377390, US9365822, US9040304, US8748183, US8709825, US8709817, US8664006, US8652769, US8497063, US8486618, US8137967, US7943384, US7929137, US7892725, US7855078, US7838210, US7833147, US7820425, US7799569, US7771921, US7758811, US7723116, US7713687, US7629113, US7586604, US6869594, DE102005051008, DE102005051007,

Abstract:
The present invention relates to a device for inseminating animals, mainly sows. This device includes a catheter (1) for forwarding the sperm which is introduced in the vagina. The catheter comprises a bead (2.1, 2.2, 2.3, 2.4) in the area of the end to be introduced (1.1), as well as an essentially sleeve–shaped hollow body (6; 16) to be introduced at the start of the vagina and through which the bead and the catheter can be pushed into the vagina. In order to prevent sperm reflux in a simple manner, the bead (2.1, 2.2, 2.3, 2.4) is made of cellular foam or the like. Before being introduced into the organic cavity, the bead can be compressed on a cross section which is smaller than the lumen of the organic cavity. The bead further expands, after an expansion time as it reaches the end position corresponding to the uterus of the animal, until the animal's organic cavity is occluded by a soft retractable plug (20).

0) FR2349736A – NEUTRALISATION DE LA TOXICITE DES GAZ D'ECHAPPE...

246) Family number: 3518279 (FR2349736A) © PatBase

Title:	NEUTRALISATION DE LA TOXICITE DES GAZ D'ECHAPPEMENT DES MOTEURS A EXPLOSION REDUCTION OF POLLUTION DUE TO ENGINE EXHAUST GASES – USES POST–COMBUSTION CHAMBER SUPPLIED WITH ADDITIONAL AIR TO BURN EXCESS FUEL
Priority:	FR19760013496 19760430

Family:

Publication number	Publication date	Application number	Application date
FR2349736 A1	19771125	FR19760013496	19760430

Probable Assignee:	JOUD FERNAND ROBERT
Assignee(s):(std)	JOUD FERNAND ROBERT
International class (IPC 8–9)	F01N3/24 (Advanced/Invention); F01N3/24 (Core/Invention)
International class (IPC 1–7)	F01N3/10 F02B75/10
CPC:	F01N3/24
European class:	F01N3/24

Classification Explorer

Abstract:
Source: FR2349736A (Claim 1) 1) Dispositif universel pour neutraliser la toxicite des gaz d'echappement des moteurs a explosion par leur synchronisation avec une postcombustion silencieuse des hydrocarbures imbrflles et de l'oxyde de carbone dans un melange combustible riche en oxygene produisant du gaz carbonique et de la vapeur d'eau, caracterise par le fait que les moyens generalement utilises comprennent deux ensembles relies mais differencies par leur mode de fixation au vehicule j d'une part, l'accouplement d'une pompe a injection et d'un ventilateur centrifuge, mis en action par le moteur a explosion, est li brement solidaire du bloomoteur 3 les raccordements des deux ensembles sont de types souples entre la pompe a injection et son injecteur et entre le ventilateur et le diffuseur, ou de type rigide entre le collecteur des pi pes dtechappement du moteur a explosion et le diffuseur; d'autre part, 1' autre ensemble, suite d'elements rigidement solidaires entre eux et librement solidaires de la carrosserie par silenblocs, compte un diffuseur, un me canisse anti–retour de flamme, une chambre de postcombustions un echangeur thermique avec canal de VEhfbRI, et un silencieux. A device for reducing the pollution due to the exhaust gases from an internal combustion engine has an inlet supplied with air from an engine–driven fan. The air mixes with exhaust gases which enter through another inlet and the mixture flows through the flame trap into the post–combustion chamber. The post–combustion chamber is provided with a fuel jet connected to an engine driven pump. A sparking plug initiates combustion so that all unburnt fuel in the exhaust gases is completely burnt. Once combustion has been initiated the sparking plug and fuel jet are disconnected. The pollution free gases then flow through the heat exchanger and through the venturi before flowing into the silencer.

0) US2007207186A – TEAR AND ABRASION RESISTANT EXPANDED MATERIAL A...

247) Family number: 36001246 (US2007207186A) © PatBase

Title: TEAR AND ABRASION RESISTANT EXPANDED MATERIAL AND REINFORCEMENT

Priority: US20060779128P 20060304 US20070713361 20070303

Family:

Publication number	Publication date	Application number	Application date
US2007207186 AA	20070906	US20070713361	20070303
US8585753 BB	20131119	US20070713361	20070303

Probable Assignee: SCANLON CATHERINE ANN

Assignee(s):(std)**:** SCANLON CATHERINE A ; SCANLON CATHERINE ANN ; SCANLON JOHN J ; SCANLON JOHN JAMES

Inventor(s):(std)**:** SCANLON CATHERINE A ; SCANLON CATHERINE ANN ; SCANLON JOHN J ; SCANLON JOHN JAMES

Inventor(s): SCANLON JOHN ; SCANLON CATHERINE

Agent(s): JOHN J SCANLON

International class (IPC 8–9): A61F2/06 (Advanced/Invention); A61F2/94 (Advanced/Non–invention); A61F2/06 (Core/Invention); A61F2/82 (Core/Non–invention)

CPC: A61F2/91 A61F2/07 A61F2/915 A61F2002/072 A61F2002/075 A61F2002/91533 A61F2002/9155 A61F2002/91558 A61F2250/0068 A61K47/48992 A61L31/048 A61L31/10 A61L31/146 A61L31/16 A61L2300/00 B29C55/26 A61F2/90 A61F2210/0076 A61F2220/0008 A61F2220/0025 A61F2220/0041 A61F2220/005 A61F2220/0058 A61F2220/0075 B23K2203/42 B23K2203/50

European class: A61F2/07 A61F2/91 A61F2/915 A61K47/48W26 A61L31/04H A61L31/10 A61L31/14H A61L31/16 B23K26/40B7H

US class: 424/424 424/424P 623/1.42 623/1.420S 623/1.49 623/1.490S

Classification Explorer

Cited documents: US6852122 BB, US6673102 BA, US6558414 BB, US6551350 BA, US6517571 BA, US6517570 BA, US6048484 A, US6025044 A, US5827327 A, US5753358 A, US5718973 A, US5716660 A, US5476589 A, US5449373 A, US4985296 A, US4739762 A, US4596837 A, US4187390 A, US4110392 A, US4096227 A, US3962153 A, US3953566 A, US2006200233 AA, US2005033417 AA, US2005025799 AA, US2004219185 AA, US2004049264 AA, US2004044397 AA, US2004024442 AA, US2003198769 AA, US2003074049 AA, US2002198588 AA, US2002042645 AA,

Forward Citations: WO17048786, WO16168587, WO15175662, WO15119721, WO15035361, WO14176451, WO14159710, WO14116941, WO14045068, WO14020609, WO13109727, WO13091050, WO13019762, WO13019762, WO12103501, WO12094302, WO12094302, WO12087301, WO12019429, WO12001617, WO12001617, WO11153150, WO11123362, WO11068522, WO11031876, WO10148322, WO10138726, WO10132636, WO10120532, WO10117460, WO10090624, WO10042502, WO10042502, WO10040064, WO10014628, WO10014628, WO09140588, WO09111200, WO09108199, WO09079418, WO09061575, WO09059224, WO09059224, WO09048645, WO09048606, WO09015056, USD770622, USD770621, USD745969, US9668917, US9668811, US9657219, US9655712, US9655710, US9649477, US9649156, US9643379, US9636258, US9636174, US9629684, US9624382, US9615775, US9611613, US9611404, US9610428, US9603710, US9603506, US9597204, US9593255, US9592386, US9592151, US9592119, US9585681, US9579425, US9579030, US9572963, US9572654, US9572618, US9572480, US9561124, US9554929, US9554691, US9550908, US9549846, US9534313, US9526648, US9526638, US9525250, US9522079, US9514961, US9510976, US9510935, US9510901, US9504811, US9500409, US9494884, US9492320, US9486355, US9482114, US9468517, US9468362, US9463068, US9463062, US9459423, US9458404, US9457175, US9452243, US9439751, US9433760, US9433437, US9428663, US9427360, US9427342, US9427339, US9423058, US9421758, US9421307, US9420955, US9415196, US9410267, US9408735, US9408734, US9408661, US9402684, US9399121, US9398952, US9398944, US9393093, US9393002, US9380785, US9376552, US9370649, US9370344, US9365701, US9364314, US9364284, US9358365, US9358140,

US9357996, US9353290, US9352371, US9351750, US9339547, US9335503, US9333104, US9327100, US9327053, US9326840, US9326751, US9320715, US9320631, US9308361, US9308070, US9303307, US9303153, US9301830, US9301826, US9297845, US9289616, US9284409, US9283072, US9277955, US9265969, US9265648, US9265632, US9265407, US9259516, US9254209, US9249283, US9242079, US9241834, US9241832, US9238906, US9233080, US9226711, US9221678, US9220879, US9220688, US9220617, US9220561, US9220558, US9212541, US9211690, US9204954, US9204953, US9198999, US9198786, US9192790, US9192435, US9186488, US9186380, US9186253, US9186211, US9186210, US9186209, US9181014, US9179823, US9174050, US9173755, US9173696, US9167961, US9162046, US9155656, US9155646, US9155589, US9155492, US9155491, US9153377, US9149470, US9144492, US9144487, US9138232, US9126375, US9125667, US9125666, US9125434, US9119632, US9119600, US9107574, US9105382, US9101506, US9101505, US9101469, US9101384, US9089392, US9089350, US9089258, US9084662, US9084609, US9079000, US9078731, US9072902, US9072626, US9060761, US9055965, US9050440, US9050106, US9044235, US9040073, US9037259, US9034363, US9034254, US9034031, US9034002, US9028485, US9028472, US9023094, US9023034, US9011516, US8999234, US8998970, US8992602, US8992601, US8992596, US8986341, US8979892, US8979888, US8974487, US8974451, US8968269, US8961495, US8961398, US8951251, US8951225, US8945088, US8941094, US8940041, US8939970, US8937040, US8932346, US8932276, US8926687, US8920491, US8906866, US8906085, US8906057, US8906045, US8905922, US8900292, US8899318, US8894614, US8889826, US8889572, US8883194, US8880185, US8870893, US8864787, US8858974, US8858586, US8852143, US8846131, US8841576, US8841358, US8840660, US8835547, US8834552, US8828041, US8815275, US8815273, US8808726, US8808314, US8802131, US8798716, US8795573, US8795561, US8794147, US8784890, US8777926, US8776837, US8771343, US8764786, US8764729, US8764726, US8764709, US8763222, US8758373, US8747389, US8746014, US8740963, US8740929, US8740839, US8734503, US8734473, US8726611, US8722066, US8721591, US8715339, US8715169, US8709080, US8709070, US8708955, US8702786, US8702626, US8677899, US8673102, US8672995, US8668732, US8653732, US8647458, US8641753, US8641694, US8636788, US8633268, US8628568, US8617441, US8617337, US8613877, US8613285, US8603569, US8585731, US8585730, US8578853, US8574615, US8535707, US8529492, US8518429, US8505743, US8500792, US8491927, US8487034, US8486154, US8485199, US8480033, US8449603, US8449595, US8439687, US8435290, US8435285, US8431149, US8425548, US8424474, US8424453, US8414473, US8404641, US8398702, US8397634, US8394138, US8388642, US8382824, US8377356, US8370965, US8367149, US8367081, US8353949, US8337650, US8337454, US8329219, US8317816, US8317808, US8308790, US8303643, US8302376, US8292943, US8287937, US8267992, US8262979, US8257640, US8236046, US8231980, US8229261, US8221822, US8216632, US8196279, US8192665, US8187620, US8177834, US8156662, US8142491, US8142490, US8137397, US8128689, US8119705, US8119184, US8089029, US8088789, US8087923, US8080055, US8071156, US8070797, US8070790, US8067054, US8066763, US8062349, US8062345, US8057534, US8052745, US8052744, US8052743, US8048150, US8043355, US8029554, US8025635, US8007605, US8002823, US8002821, US7998192, US7987614, US7985252, US7981150, US7980001, US7976915, US7975398, US7972375, US7955382, US7955381, US7942926, US7939000, US7938855, US7931683, US7926202, US7916988, US7914500, US7901525, US7882646, US7867988, US7842737, US7828840, US7824441, US7824440, US7820229, US7763063, US7743499, US7732690, US7685737, US7666223, US7651522, US7442575, US7377939, US2016346522, US2016243292, US2016213460, US2016151729, US2016139331, US2016136329, US2016135954, US2016114082, US2016022442, US2016008330, US2015289412, US2015283658, US2015231304, US2015148823, US2015131952, US2015108617, US2015005739, US2014377448, US2014336304, US2014336277, US2014277000, US2014261833, US2014243993, US2014242144, US2014212355, US2014205645, US2014194973, US2014179170, US2014172082, US2014172081, US2014171864, US2014155916, US2014150282, US2014148752, US2014147814, US2014127321, US2014121294, US2014121034, US2014110593, US2014081297, US2014079755, US2014066847, US2014058194, US2014031785, US2013345729, US2013331923, US2013325121, US2013310782, US2013306591, US2013280125, US2013251589, US2013226277, US2013184807, US2013178949, US2013160887, US2013158652, US2013149432, US2013140228, US2013131780, US2013096521, US2013090708, US2013072885, US2013056240, US2013042873, US2013023970, US2012291377, US2012277726, US2012273539, US2012267138, US2012251589, US2012239137, US2012232643, US2012223446, US2012221096, US2012150284, US2012150204, US2012118199, US2012116280, US2012077406, US2012077405, US2012077404, US2012076972, US2012074612, US2012065703, US2012056149, US2012040114, US2012035716, US2012034118, US2012031784, US2012029537,

US2012024789, US2012022531, US2011270356, US2011259859, US2011257761, US2011257665, US2011238155, US2011238019, US2011230955, US2011224703, US2011218602, US2011208289, US2011202126, US2011193281, US2011190637, US2011158583, US2011153027, US2011152214, US2011150998, US2011129521, US2011112654, US2011108774, US2011087070, US2011081538, US2011046711, US2011045041, US2011030885, US2011030120, US2011026854, US2010319836, US2010319111, US2010316588, US2010307357, US2010305697, US2010298926, US2010285291, US2010268149, US2010256747, US2010247603, US2010240800, US2010189946, US2010162657, US2010161053, US2010161030, US2010160531, US2010145432, US2010131002, US2010087916, US2010086767, US2010086579, US2010076555, US2010076543, US2010043199, US2010042046, US2010013417, US2009317278, US2009264925, US2009256482, US2009192627, US2009188521, US2009182425, US2009177272, US2009177267, US2009171443, US2009159228, US2009157158, US2009151591, US2009125092, US2009123525, US2009112306, US2009098192, US2009095417, US2009095313, US2009069884, US2009024211, US2009018633, US2009005850, US2008234309, US2008228028, US2008223193, US2008207874, US2008200976, US2008195196, US2008195189, US2008188922, US2008161900, US2008152291, US2008138375, US2008125626, US2008109070, US2008091275, US2008081439, US2008081063, US2007283969, US2007265584, US2007123820, US2007106362, US2007069419, US2007032858, US2006130327, US2005119733, US2005110214, RU2569026, KR101255551, JP2012527493, GB2512016, GB2453637, EP2749309, EP2667829, EP2478870, EP2231065, EP2067494, EA021051, DE102009002153, DE102008054845, DE102008042603, DE102008002641, CN105796207, CN105220247, CN105121132, CN104884694, CN103649230, CN103629454, CN101972180, CN101945621, AU2015202132, AU2011261852,

Abstract:
Source: US2007207186A The present invention is a more durable expanded material that enables thinner wall thicknesses and a more flexible reinforcement suitable for stenting. The present invention is especially useful in the construction of grafts, stents, and stent−grafts which are used, for example, in repairing or replacing blood vessels that are narrowed or occluded by disease, aneurismal blood vessels, or other medical treatments. The inventive material and configurations allow expansion or contraction in size or adjustment in size in an incremental manner so that the optimum size, shape, and fit with other objects can be obtained. The present invention is also optionally capable of more accurately delivering one or more active ingredients such as drugs over longer periods of time. The present invention optionally includes surface modifications and additives that increase the surface adhesion of active ingredients, coatings, or combinations thereof. Finally, the present invention optionally includes growing cells on the inventive material so that the expanded material, reinforcement, or combinations thereof are useful, for example, in producing lab−grown blood vessels or organs.

248) Family number: 20590890 (GB700494A) © PatBase

Title: Improvements in or relating to gas–pressure electric cables

Family:

Publication number	Publication date	Application number	Application date
GB700494 A	19531202	GB19520008099	19520331

Probable Assignee: PIRELLI

Assignee(s):(std)**:** PIRELLI

Assignee(s): PIRELLI SOCIETA PER AZIONI

International class (IPC 8–9)**:** B05D1/02 C23D5/00 H01B9/06 (Advanced/Invention)

International class (IPC 1–7)**:** H01B9/06

CPC: H01B9/06 H01B9/0611

Classification Explorer

Forward Citations: GB2196783, GB2196783,

Abstract:
Source: GB700494A 700,494. Cables. PIRELLI SOC. PER AZIONI. March 31, 1952 [April 18, 1951], No. 8099/52. Class 36 The gas distributing tubes of single or multicore gas pressure cables are provided with perforations which, of themselves or in co–operation with an auxiliary member, act as valves, allowing the free flow of gas outwardly from the tube, but preventing the flow of insulating compound or gas in the reverse direction. In a multicore cable having impregnated paper filling 12 in the spaces between the cores, one or more of these spaces also includes a metal helix 4 enclosing an elastic tube 5 which may have an internal metal helix 6. The tube 5 is provided with small apertures 14 made by puncturing with a needle or thin blade and spaced so that they are not obstructed by the turns of the helix 4. Internal pressure opens the apertures, but external pressure holds them tightly closed. The tube 5 may be replaced by a metal tube having perforations of finite diameter. An elastic tape is tightly wound on this tube so as to close the perforations but allow the escape of gas under pressure from within the tube. The cable may also include a signalling cable 7 and an unperforated tube 8 to convey gas through a length of the cable without permitting its distribution. In a single core cable the helix 4 forms an axial passage within the hollow stranded conductor and embraces either the elastic or metallic tube above described.

0) DE19513568C1 – PREPN. GRINDER INLAY SYSTEM FOR USE IN DENTISTR...

249) Family number: 22743209 (DE19513568C1) © PatBase

Title: PREPN. GRINDER INLAY SYSTEM FOR USE IN DENTISTRY

Priority: DE19951013568 19950418

Family:

Publication number	Publication date	Application number	Application date
DE19513568 C1	19960509	DE19951013568	19950418

Probable Assignee: HAWELLEK RONALD DR

Assignee(s):(std)**:** HAWELLEK RONALD DR

Assignee(s): HAWELLEK RONALD DR 30459 HANNOVER DE

Inventor(s):(std)**:** HAWELLEK RONALD DR

International class (IPC 8–9)**:** A61C3/02 (Advanced/Invention); A61C3/02 (Core/Invention)

International class (IPC 1–7)**:** A61C3/02 A61C5/04 A61K6/00

CPC: A61C3/02

European class: A61C3/02

Classification Explorer

Cited documents: DE4123237 C2, DE3743433 C1, DE3620542 C2,

Forward Citations: WO16116951, WO04089236, EP1613234,

Abstract:
Source: DE19513568C1 Prepn. grinder inlay system consists of a grinder and a prefinished ceramic moulding, which are co–ordinated w.r.t. each other so that the moulding fits exactly into a cavity. The grinder (1) consists of a wheel with a shaft (2) which has conical side surfaces (3) and a rounded off running surface (4). The grinder rotates or oscillates during cavity preparation. The max. height of the section is determined by the spacing between the running surface (4) and the shaft (2), and this decides the max. penetration of the grinder.

0) US2001018861A – PRECISION SENSOR FOR A HYDRAULIC CYLINDER

250) Family number: 28109088 (US2001018861A) © PatBase

Title: Precision sensor for a hydraulic cylinder

Priority: EP19990970715 19991018 US19980104866P 19981019 US19980104886P 19981020 US20030722789 20031126 WO1999US24287 19991018 US20010793218 20010226 US19990302701 19990430 US20020268527 20021010 WO2002US08974 20020226

Family:

Publication number	Publication date	Application number	Application date
AT298045 E	20050715	AT19990970715T	19991018
AT350588 E	20070115	AT19990009658T	19991018
AU200014469 A1	20000508	AU20000014469	19991018
AU200014469 A5	20000508	AU20000014469	19991018
AU2002255890 AA	20020912	AU20020255890	20020226
CA2346678 AA	20010405	CA19992346678	19991018
CA2346678 C	20071120	CA19992346678	19991018
DE69925851 D1	20050721	DE19996025851	19991018
DE69925851 T2	20060511	DE19996025851T	19991018
DE69934729 D1	20070215	DE19996034729	19991018
DE69934729 T2	20071018	DE19996034729T	19991018
EP1123464 A1	20010816	EP19990970715	19991018
EP1123464 B1	20050615	EP19990970715	19991018
EP1443218 A2	20040804	EP20040009658	19991018
EP1443218 A3	20041117	EP20040009658	19991018
EP1443218 A9	20041027	EP20040009658	19991018
EP1443218 B1	20070103	EP20040009658	19991018
US2001018861 AA	20010906	US20010793218	20010226
US2003029310 AA	20030213	US20020268527	20021010
US6234061 BA	20010522	US19990302701	19990430
US6694861 BB	20040224	US20010793218	20010226
US6702600 BB	20040309	US20020268527	20021010
US7290476 BA	20071106	US20030722789	20031126
WO0023717 A1	20000427	WO1999US24287	19991018
WO0023717 C2	20010201	WO1999US24287	19991018
WO02069456 A1	20020906	WO2002US08974	20020226

Probable Assignee: CONTROL PRODUCTS INC

Assignee(s):(std)**:** CONTROL PRODUCTS INC ; GLASSON RICHARD O

Assignee(s): CONTROL PRODUCTS INC EAST HANOVER

Inventor(s):(std)**:** GLASSON RICHARD O

Inventor(s): RICHARD O GLASSON ; GLASSON O

Agent(s): KIRBY EADES GALE BAKER

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

International class (IPC 8–9): F01B25/04 F15B15/28 G01D5/22 G05D5/02 H01R13/52 (Advanced/Invention); F01B25/00 F15B15/00 G01D5/12 G05D5/00 (Core/Invention)

International class (IPC 1–7): F01B25/26 F01B31/12 F15B15/28 G05D5/02 H01R13/52

CPC: F15B15/283 G05D5/02 H01R13/521 G01D5/2291

European class: F15B15/28C3 G01D5/22D G05D5/02 H01R13/52F

US class: 33/763 439/190 92/5 92/5.00R 92/5.00RP 92/5R

Classification Explorer

Cited documents: US6694861 BB, US6669135 BA, US6646434 BB, US6636035 BB, US6611138 BB, US6588313 BB, US6545461 BA, US6543152 BA, US6522129 BB, US6501264 BB, US6499225 BA, US6487787 BA, US6450048 BA, US6443385 BA, US6413179 BA, US6360449 BA, US6353314 BA, US6335618 BA, US6279248 BA, US6259249 BA, US6253460 BA, US6234061 BA, US6160395 A, US5973494 A, US5955881 A, US5936399 A, US5917164 A, US5901458 A, US5894678 A, US5841274 A, US5789917 A, US5768946 A, US5757179 A, US5752811 A, US5701793 A, US5694042 A, US5693935 A, US5681006 A, US5659248 A, US5467938 A, US5444369 A, US5404661 A, US5389876 A, US5364043 A, US5341724 A, US5233293 A, US5203723 A, US5200747 A, US5156242 A, US5046243 A, US5024250 A, US4999579 A, US4989329 A, US4945221 A, US4914389 A, US4737698 A, US4653190 A, US4497375 A, US4488014 A, US4480151 A, US4425557 A, US4413245 A, US4386552 A, US4367998 A, US4342884 A, US4319864 A, US4288196 A, US4286386 A, US4231700 A, US4214180 A, US4121504 A, US4057904 A, US4005396 A, US3988710 A, US3777273 A, US3403365 A, US2498799 A, US2003131724 AA, FR2794236 A1, EP0505297 A1, EP0325787 A2, DE3835782 A1, DE2635614 A1, DE20015895 U1, DE20015895,

Forward Citations: WO17041140, WO14003992, WO10141605, WO05069857, WO05069857, USD476242, US9366520, US8839915, US8794060, US8770087, US8558408, US8482607, US8448563, US8347984, US8278779, US8156798, US8146417, US8100045, US8015717, US7982459, US7703348, US7609055, US7552671, US7451552, US7300289, US7290476, US7197974, US7128506, US7128506, US7093361, US7047865, US7011608, US6940276, US6935204, US6866545, US6834574, US6725761, US6694861, US2015276029, US2013305509, US2012186466, US2011197658, US2011011077, US2010307233, US2010276198, US2010114521, US2010095840, US2010050863, US2009322316, US2008120863, US2007267072, US2007135258, US2007084676, US2007077790, US2006144217, US2006017431, US2005160864, US2005120875, US2005077691, US2004227508, US2004180579, US2004151556, US2004080313, US2003135995, US2003131724, US2003127235, US2003092537, EP2864646, EP2438342, EP2438342, EP1979716, AU2010241989,

Abstract:
Source: US2001018861A A sensor mountable within a hydraulic cylinder provides a precision signal indicative of the position of the piston. The sensor includes a flexible connector attached between the cylinder piston and a converting element for sensing the piston displacement. The converting element comprises a pick–up spool, under tension, coupled to the other end of the connector and rotatable about an axis. A lead screw engages threads on the spool, and translates linearly when the spool rotates. A non–contacting electromechanical transducer senses the position of the lead screw, and provides an output signal proportional to the motion or position of the movable element. The transducer may be an LVDT or other transducer. A high–pressure seal assembly provides an electrical path between the sensor and an external connector. A piston stop prevents the piston from damaging the sensor. The sensor is held within the cylinder by port inserts threaded into standard cylinder hydraulic fluid ports and advanced inwardly to grip the sensor.

0) US2010057067A – MODULAR PULSED PRESSURE DEVICE FOR THE TRANSPOR...

251) Family number: 44455605 (US2010057067A) © PatBase

Title: MODULAR PULSED PRESSURE DEVICE FOR THE TRANSPORT OF LIQUID CRYOGEN TO A CRYOPROBE

Priority:

CN201280021451	20120302	EP20090812404	20091102	US20080093916P	20080903
US20080098244P	20080919	US20090061171	20091102	US20090240863P	20090909
US20090553005	20090902	US20090562301	20090918	US20100821274	20100623
US20100319525P	20100331	US20110038862	20110302	US20090607721	20091028
US20110061171	20110228	US20090607721	20090928	WO2009US62928	20091102
US20110077399	20110331	US20120683140	20121121	WO2012US27512	20120302
US20140336317	20140721	US20150715092	20150518	US20160230096	20160805

Family:

Publication number	Publication date	Application number	Application date
BR112013022378 A2	20161206	BR20131122378	20120302
CA2736221 AA	20110303	CA20092736221	20091102
CA2736221 C	20160105	CA20092736221	20091102
CA2829058 AA	20130903	CA20122829058	20120302
CL2013002518 A1	20140725	CL20130002518	20130902
CN103501719 A	20140108	CN201280021451	20120302
CN103501719 B	20160824	CN201280021451	20120302
CN106214244 A	20161214	CN201610590853	20120302
DE602009032710 D1	20150917	DE200960032710T	20091102
EP2330995 A1	20110615	EP20090812404	20091102
EP2330995 A4	20130306	EP20090812404	20091102
EP2330995 B1	20150805	EP20090812404	20091102
EP2680775 A1	20140108	EP20120752309	20120302
EP2680775 A4	20141001	EP20120752309	20120302
EP3173041 A1	20170531	EP20150179592	20091102
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IL228223 A0	20131031	IL20120228223	20120302
IL228223 A1	20151029	IL20120228223	20120302
IL241984 A0	20151130	IL20120241984	20120302
IN07999DN2013 A	20141212	IN2013DN07999	20130911
KR20140022819 A	20140225	KR20137025676	20120302
MX2013010117 A1	20140425	MX20130010117	20120302
MX340642 B	20160719	MX20130010117	20120302
SG193263 A1	20131030	SG20130065982	20120302
US2010057067 AA	20100304	US20090553005	20090902
US2010076421 AA	20100325	US20090562301	20090918
US2010256622 AA	20101007	US20100821274	20100623
US2011060323 AA	20110310	US20090607721	20091028
US2011152849 AA	20110623	US20090061171	20091102
US2011184402 AA	20110728	US20110077399	20110331
US2012059364 AA	20120308	US20110038862	20110302
US2013079761 AA	20130328	US20120683140	20121121
US2015018810 AA	20150115	US20140336317	20140721
US2015257810 AA	20150917	US20150715092	20150518
US2016338754 AA	20161124	US20160230096	20160805
US8409184 BB	20130402	US20090607721	20091028
US8439905 BB	20130514	US20090562301	20090918

US8747397 BB	20140610	US20120683140	20121121	
US8784409 BB	20140722	US20090061171	20091102	
US8998888 BB	20150407	US20100821274	20100623	
US9089316 BB	20150728	US20110038862	20110302	
US9408654 BB	20160809	US20090553005	20090902	
WO10028409 A1	20100311	WO2009US62928	20091102	
WO10028409 A4	20100429	WO2009US62928	20091102	
WO11049680 A1	20110428	WO2010US48079	20100908	
WO12119088 A1	20120907	WO2012US27512	20120302	

Probable Assignee: CPSI HOLDINGS LLC

Assignee(s):(std)**:** BAUST JOHN G ; BAUST JOHN M ; BUAST JOHN M ; CHEAKS ROY ; CHEEKS ROY ; DOBSON MELISSA K ; KLOSSNER DANIEL ; HAUST JOHN G ; CPSI BIOTECH ; CPSI HOLDINGS LLC ; ENDO PHARMACEUTICALS INC ; ENDOCARE INC ; CHEEKS ROY E ; SNYDER KRISTI ; ROBILOTTO ANTHONY ; VAN BUSKIRK ROBERT G ; VAN BUSKIRK ROB G ; SNYDER KRISTI K ; ROBILOTTO ANTHONY T ; VAN BUSKIRK ROB ; VAN BUSKIRK ROBERT

Assignee(s): REGIONS BANK ; MIDCAP FINANCIAL TRUST ADMINISTRATIVE AGENT AS ; ENDOCARE INC AUSTIN

Inventor(s):(std)**:** BAUST JOHN ; BAUST JOHN G ; BAUST JOHN M ; BUAST JOHN M ; BUSKIRK ROBERT G VAN ; BUSKIRK ROBERT VAN ; CHEAKS ROY ; CHEEKS ROY ; CHEEKS ROY E ; DOBSON MELISSA K ; HAUST JOHN G ; JOHN G BAUST ; JOHN M BAUST ; KLOSSNER DANIEL ; KRISTI K SNYDER ; LUECKGE CLAUDIA ; LUEKGE CLAUDIA ; MELISSA K DOBSON ; ROBERT G VAN BUSKIRK ; ANTHONY ROBILOTTO ; ROBILOTTO ANTHONY ; ROBILOTTO ANTHONY T ; ROY E CHEEKS ; SNYDER KRISTI ; SNYDER KRISTI K ; VAN BUSKIRK ROB ; VAN BUSKIRK ROB G ; VAN BUSKIRK ROBERT ; VAN BUSKIRK ROBERT G

Inventor(s): SYNDER KRISTI K ; ROY CHEEKS ; ANTHONY T ROBILOTTO ; ROBERT GVAN BUSKIRK ; ROBERT VAN BUSKIRK

Agent(s): R WILLIAM WRAY AND ASSOCIATES; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; TORYS LLP; ESTUDIO FEDERICO VILLASECA Y CIA; ZENZ PATENTANWAELTE PARTNERSCHAFT MBB; LEBRETTE CAMILLE; BASSIL NICHOLAS CHARLES; LEONARD THOMAS CHARLES; DE ELZABURU ALBERTO; SANFORD TCOLB AND CO; CELL PRESERVATION SERVICES INC CPSI LEGAL IP; JOHN M BAUST; MELISSA K; PEPPER HAMILTON LLP; HOFFMAN WARNICK LLC; DOBSON M; DOBSON MELISSA K; DELUCA MARK

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 QA RO RS RU RW 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

International class (IPC 8–9): A61B A61B18/02 A61B18/18 A61B18/20 A61K31/337 A61K9/51 F16L59/065 F16L59/153 F17C9/00 F17C9/02 F25B19/00 F25D19/00 F25D3/00 (Advanced/Invention);
A61B18/00 (Advanced/Non–invention);
A61B18/00 F16L59/00 F16L59/06 F17C9/00 F25B19/00 F25D3/00 (Core/Invention);
A61B (Subclass/Invention)

CPC: A61K9/0024 A61K9/145 A61K31/00 A61K31/282 A61K31/337 A61K31/513 A61K31/59 A61K31/7048 A61K45/06 A61M5/44 A61M37/0069 A61M2205/3606 A61B18/0218 F17C9/00 A61B2018/0268 A61B2018/00041 A61B2018/00357 A61B2018/00577 A61B2018/00994 F25B2400/01 F25D3/00 F25D19/00 A61B2018/00202 A61B2017/003 A61B2018/00208 A61B2018/00797 A61B2090/064 A61B18/02 A61B2018/00791 A61B2018/00863 A61B2018/00982 A61B2018/0212 A61B2018/0262 A61B5/0084 A61B5/01 A61B5/036 A61B5/0422 A61B2017/00084 A61B2017/22051 A61B2018/00101 A61B2018/0022 F04C2270/0421 F17C9/02 F25B19/005 F17C2270/02 F17C2223/013 F25D2400/02

European class: A61B18/02 A61K31/00 A61K31/282 A61K31/337 A61K31/513 A61K31/59 A61K31/7048 A61K45/06 A61K9/00M5D A61K9/14H4 A61M37/00P F25D19/00 F25D3/00 K61B17/00C1T K61B17/00E3G K61B17/22H K61B18/00A4 K61B18/00B14A K61B18/00B2H4 K61B18/00F6A1 K61B18/00G1 K61B18/00R K61B18/00X K61B18/02C K61B18/02H4 K61B18/02H4R K61B19/46H K61B5/00P12B K61B5/01 K61B5/03H K61B5/042D K61M205/36A K61M5/44 R25B400/01

US class: 1/1 604/59 604/60 604/61 606/14 606/14S 606/20 606/21 606/21P 606/22 606/22S 606/23 606/23P 606/23S 606/24 606/24P 62/293 62/293S 62/50.1 62/50.7 62/50.700S 62/51.1 62/51.100S

Classification Explorer

Cited documents: WO9635469 A1, WO10028409 A1, US8409184 BB, US7416551 BB, US7416548 BB, US7404816 BB, US7311705 BB, US7306590 BB, US7306589 BB, US7303554 BB, US7207985 BB, US7163535 BB, US7160291 BB, US7156840 BB, US7099717 BB, US6936045 BB, US6893436 BB, US6887234 BB, US6875209 BB, US6817999 BB, US6767346 BB, US6752805 BB, US6726693 BB, US6705194 BB, US6656175 BB, US6648879 BB, US6572610 BB, US6572527 BB, US6551309 BA, US6547784 BA, US6508814 BB, US6485560 BA, US6468269 BA, US6468268 BA, US6306129 BA, US6270472 BA, US6241722 BA, US6171301 BA, US6171301 B1, US6161543 A, US6141985 A, US6096032 A, US6041787 A, US5951546 A, US5916212 A, US5899898 A, US5869604 A, US5846235 A, US5817326 A, US5758505 A, US5746736 A, US5733280 A, US5674218 A, US5654218 A, US5520682 A, US5452582 A, US5423807 A, US5405616 A, US5400602 A, US5334181 A, US5254116 A, US5237824 A, US5179022 A, US5147355 A, US5135553 A, US5078713 A, US4976686 A, US4946460 A, US4833961 A, US4831846 A, US4829785 A, US4377168 A, US4243619 A, US4082096 A, US4077406 A, US3971383 A, US3921980 A, US3918439 A, US3858805 A, US3794039 A, US3005421 A, US2859325 A, US2607333 A, US2013085554 AA, US2013071319 AA, US2013011332 AA, US2012128783 AA, US2012016338 AA, US2011152849 AA, US2011150765 AA, US2010241112 AA, US2010187728 AA, US2010185174 AA, US2010168900 AA, US2010163576 AA, US2010152880 AA, US2010152651 AA, US2010057067 AA, US2010057064 AA, US2010028409 AA, US2009318913 AA, US2009281533 AA, US2009171335 AA, US2009012510 AA, US2009011032 AA, US2008306475 AA, US2008300584 AA, US2008255551 AA, US2008173028 AA, US2008147056 AA, US2008129142 AA, US2008027422 AA, US2008027421 AA, US2008009845 AA, US2007277550 AA, US2007244474 AA, US2007233055 AA, US2007149957 AA, US2007073281 AA, US2007021741 AA, US2006247578 AA, US2006235375 AA, US2006172014 AA, US2006142732 AA, US2006135953 AA, US2006129142 AA, US2006122588 AA, US2006079867 AA, US2005267332 AA, US2005261753 AA, US2005261671 AA, US2005214268 AA, US2005124877 AA, US2005090814 AA, US2004215295 AA, US2004092920 AA, US2004034345 AA, US2003055416 AA, US2002077624 AA, US2002007180 AA, US2001021847 AA, US1653353 A,

Forward Citations: WO15035071, WO14190022, WO14144626, WO13131101, WO13052858, WO12119088, WO11026215, USD777338, US9655770, US9566105, US9545523, US9408745, US9408654, US9381055, US9375345, US9314368, US9301796, US9243726, US9144449, US9101343, US9089316, US9084590, US9078733, US8998888, US8784409, US8747397, US8298219, US2016123537, US2015276131, US2015068232, US2014350535, US2014276710, US2014276706, US2014200567, US2014039476, US2013204241, US2013192194, US2013079761, US2012028933, US2011152849, US2011054453, US2010256622, US2010057067, US2010057064, RU2613078, FR2989265, EP2967707, EP2819600, EP2680775, EP2680775, CN105769373, CN103501719, CN103417288,

Abstract:
Source: US2010057067A A cryogenic medical device for delivery of subcooled liquid cryogen to various configurations of cryoprobes is designed for the treatment of damaged, diseased, cancerous or other unwanted tissues. The device is a closed or semi−closed system in which the liquid cryogen is contained in both the supply and return stages. The device is capable of generating cryogen to a supercritical state and may be utilized in any rapid cooling systems. As designed, the device comprises a number of parts including a vacuum insulated outer dewar, submersible cryogen pump, baffled linear heat exchanger, multiple pressurization cartridges, a return chamber, and a series of valves to control the flow of the liquid cryogen. The cryogenic medical device promotes the subcooling to any external cryogenic instrument.

0) FR1558868A –

252) Family number: 639307 (FR1558868A) © PatBase

Priority: DE1967R034889 19670408

Family:

Publication number	Publication date	Application number	Application date
FR1558868 A	19690228		19680402

International class (IPC 8–9): E04G17/06 (Advanced/Invention); E04G17/06 (Core/Invention)

International class (IPC 1–7): E04G17/06

CPC: E04G17/06

European class: E04G17/06

Classification Explorer

Abstract:
Source: FR1558868A (Claim 1) 1. La piece intercalaire est fabriquee par extrusion sous la forme d'un materiau en forme de barre, en substance synthetique et elle est coupee a longueur en fonction de l'epaisseur du mur en beton a eriger. La figure 1 montre une piece intercalaire qui est constituee par un corps cylindrique 3 pourvu d'un alesage longitudinal 2 et presentant dans le sens longitudinal plusieurs nervures de renforcement 4 s'etendant en helice. Afin que les nervures de renforcement 4 ne se detachent pas du corps cylindrique 3, l'epaisseur des nervures augmente. en direction de l'alesage axial

Machine translation: (Claim 1) 1. The insert piece is manufactured by extrusion in the form of a bar−shaped material, synthetic and essentially it is cut to length depending on the thickness of the concrete wall was erect. Figure 1 shows a spacer which consists of a cylindrical body 3 provided with a longitudinal bore 2 and having in the longitudinal direction several reinforcing ribs 4 extending helically. So that the reinforcing ribs 4 do not come off of the cylindrical body 3, the thickness of the ribs increases. towards the axial bore

0) US4427637A – APPARATUS FOR PRODUCING AN ALKALI METAL SALT OF...

253) Family number: 1502804 (US4427637A) © PatBase

Title: APPARATUS FOR PRODUCING AN ALKALI METAL SALT OF A MINERAL ACID, AND A PROCESS

Priority: CA19810386649 19810925 JP19800135305 19800930 JP19810103173 19810703

Family:

Publication number	Publication date	Application number	Application date
BE890541 A1	19820329	BE19810206103	19810929
CA1177222 A1	19841106	CA19810386649	19810925
DE3138923 A1	19820401	DE19813138923	19810930
DE3138923 C2	19850926	DE19813138923	19810930
FR2491057 A1	19820402	FR19810018323	19810929
FR2491057 B1	19841214	FR19810018323	19810929
JP57067022 A2	19820423	JP19800135305	19800930
JP58009814 A2	19830120	JP19810103173	19810703
NO813312 A	19820331	NO19810003312	19810929
SU1178314 A3	19850907	SU19813365882	19810929
US4427637 A	19840124	US19810307164	19810930

Probable Assignee: ASAHI CHEMICAL IND

Assignee(s):(std)**:** ASAHI CHEMICAL IND

Assignee(s): ASAHI KASEI KOGYO K K ; ASAHI KASEI KOGYO K K OSAKA JP ; ASAHI KASEI KOGYO KABUSHIKI KAISHA ; ASAHI KASEI KOGYO KK ; HAYASHI KENICHI ; IWASHITA HIDEMARO ; KIURA YOSHINORI ; MIENO FUMIAKI

Inventor(s):(std)**:** IVASITA KHIDEMARO ; KHAYASI KENITI ; KIURA ESINORI ; MIENO FUMIAKI ; KIURA YOSHINORI ; IWASHITA HIDEMARO ; HAYASHI KENICHI

Inventor(s): FUMIAKI MIENO JP ; ESINORI KIURA JP ; HAYASHI KENICHI MIYAZAKI JP ; KHIDEMARO IVASITA JP ; KENITI KHAYASI JP ; KIURA YOSHINORI NOBEOKA MIYAZAKI JP ; IWASHITA HIDEMARO TOKIO TOKYO JP

Agent(s): MACRAE AND CO

International class (IPC 8–9)**:** B01J19/00 B01J6/00 B01J8/10 C01B7/03 C01D17/00 C01D5/02 C05D1/02 (Advanced/Invention); B01J19/00 B01J6/00 B01J8/08 C01B7/00 C01D17/00 C01D5/00 C05D1/00 (Core/Invention)

International class (IPC 1–7)**:** B01F7/04 B01J19/00 B01J8/10 C01B7/01 C01B7/03 C01D13/00 C01D15/00 C01D17/00 C01D5/02 C01G1/00 C05D1/02

CPC: Y02P20/129 B01J6/00 C01B7/035 C01D5/02 C01D17/003

European class: B01J6/00 C01B7/03B C01D17/00B C01D5/02

US class: 366/300 422/198 422/229 422/233 423/482 423/552

Classification Explorer

Cited documents: US4342737, US4303619, US4191736 A, US3684458, US3592609 A, US2706144, US2082809, US1871416, US1697390, US1498286, US1486358, US1165815, US1145898, GB2054810 A1, FR524684 A, DE551929 A,

Forward Citations: US6337058, US5401833,

Abstract:
Source: US4427637A An apparatus is disclosed for producing an alkali metal salt of a mineral acid, characterized by the provision of a specific agitating means, said agitating means having a pair of shafts adapted to contra–rotate and a plurality of columnar agitating elements securely attached to each of said pair of shafts and being so constructed that it forcibly causes the migration of the reaction mixture at least in the region where the liquid phase of the reaction mixture is substantially continuous and forcibly causes the kneading of the reaction mixture at least in the region where the solid phase of the reaction mixture is substantially continuous. A process is also disclosed for producing an alkali metal salt of a mineral acid, characterized in that the reaction between an alkali metal chloride and a mineral acid is effected in the apparatus as described above while allowing the state of

the reaction mixture to be transferred from a slurry or capillary state to a pendular or dry state via a funicular II state and a funicular I state with the progress of the reaction; that the reaction mixture is impelled to migrate at least in a region ranging from the zone in which the reaction mixture assumes a capillary state to the zone in which the reaction mixture assumes a funicular I state; and that the reaction mixture is forcibly kneaded at least in a region ranging from the zone in which the reaction mixture assumes a pendular II state to the zone in which the reaction mixture assumes a pendular state. Thereby, a desired product can be continuously, stably obtained with high efficiency.

254) Family number: 1638654 (US4241816A) © PatBase

Title: Self–locking shock absorber with volume compensation

Priority: CA19780314210 19781025 FR19770006147 19770223 FR19770034956 19771110

Family:

Publication number	Publication date	Application number	Application date
BE871887 A1	19790301	BE19780191629	19781109
CA1094587 A1	19810127	CA19780314210	19781025
DE2807717 A1	19780831	DE19782807717	19780223
DE2807717 B2	19800424	DE19782807717	19780223
DE2807717 C3	19801218	DE19782807717	19780223
FR2381943 A1	19780922	FR19770006147	19770223
FR2381943 B1	19810227	FR19770006147	19770223
FR2408771 A1	19790608	FR19770034956	19771110
FR2408771 B1	19820402	FR19770034956	19771110
GB1599565 A	19811007	GB19780007320	19780223
US4241816 A	19801230	US19780956747	19781101

Probable Assignee: QUIRI AND CIE USINES

Assignee(s):(std)**:** HUBRECHT GERARD ; MECHAIN GERARD ; QUIRI AND CIE USINES

Assignee(s): QUIRI ET CIE USINES ; SOC DES USINES QUIRI AND CIE ; SOCIETE DES USINES QUIRI AND CIE ; SOCIÉTE DES USINES QUIRI AND CIE SCHILTIGHEIM BAS RHIN FRANKREICH

Inventor(s):(std)**:** HUBRECHT GERARD ; MECHAIN GERARD

Inventor(s): MECHAIN GERARD SCHILTIGHEIM FRANKREICH ; WIRD SPAETER GENANNT WERDEN ; HUBRECHT GERARD NEUDORF

Agent(s): MARKS AND CLERK

International class (IPC 8–9): F16F9/00 F16F9/04 F16F9/06 F16L3/20 F16L3/217 G21D1/02 (Advanced/Invention); F16F9/00 F16L3/16 G21D1/02 (Core/Invention)

International class (IPC 1–7): F16F15/04 F16F9/04 F16F9/06 F16F9/18 F16F9/19 F16F9/50 F16F9/52 F16L3/20 F16L55/04 G21D1/00

CPC: F16L3/20 F16F9/003 F16F9/06 F16L3/217 G21D1/02 Y02E30/40

European class: F16F9/00C F16F9/06 F16L3/20 F16L3/217 G21D1/02 Y02E30/40

US class: 188/298 188/314 188/317

Classification Explorer

Cited documents: US3837444 A, US3536312 A, NL6717020 A, GB1317253 A, FR2118635 A5, DE1650086 A1, DE1147806 B,

Forward Citations: WO10141798, WO0151826, US9662952, US9605952, US9375852, US9205567, US9156172, US9080630, US7997392, US7464799, US6749045, US5501434, US5332070, US5318156, US5157987, US5042781, US4890822, US4553744, US2006180418, GB2150259, FR2449236, EP1250540, EP0342394, EP0239397, CN102434528,

Abstract:
Source: US4241816A An automatic–locking damping unit designed to prevent damage to pipelines exposed to violent shaking. The unit is characterized by the presence of a compensating chamber provided in the inner cavity of the cross–head; this chamber communicating with the inner space of the unit via two valves and nozzles. The invention is of interest to designers of hydraulic equipment.

0) US1990974A – ALTERNATING CURRENT TUBE

255) Family number: 21914627 (US1990974A) © PatBase

Title:	ALTERNATING CURRENT TUBE
Priority:	US19270193865 19270524

Family:

Publication number	Publication date	Application number	Application date
US1990974 A	19350212	US19270193865	19270524

Probable Assignee:	NAT UNION RADIO CORP
Assignee(s):(std)**:**	NAT UNION RADIO CORP
Assignee(s):	NATIONAL UNION RADIO CORP
Inventor(s):(std)**:**	BEERS JOHN R
International class (IPC 8–9)**:**	H01J1/20 (Advanced/Invention); H01J1/20 (Core/Invention)
International class (IPC 1–7)**:**	H01J19/14
CPC:	H01J1/20
European class:	H01J1/20
US class:	313/239 313/270 313/271 313/310 313/337 313/340 313/341
Classification Explorer	
Forward Citations:	US2445462,

Abstract:
Source: US1990974A 1. An alternating current quick heating thermionic tube comprising an electron–emitting element and a heater therefor consisting of a conductor wound in the form of a single helix, the outside diameter of said helix being aDIJroXimately four and one–half times the diameter of said conductor.

0) US5040946A – CASE, PARTICULARLY FOR CENTRIFUGAL RADIAL PUMPS...

256) Family number: 4727411 (US5040946A) © PatBase

Title: CASE, PARTICULARLY FOR CENTRIFUGAL RADIAL PUMPS, AND METHOD FOR MANUFACTURING THEREOF

Priority: IT19890085615 19890705

Family:

Publication number	Publication date	Application number	Application date
AT145040 E	19961115	AT19900112637T	19900703
DE69029062 D1	19961212	DE19906029062	19900703
DE69029062 T2	19970306	DE19906029062T	19900703
EP0406787 A2	19910109	EP19900112637	19900703
EP0406787 A3	19910626	EP19900112637	19900703
EP0406787 B1	19961106	EP19900112637	19900703
IT1234126 A	19920429	IT19890085615	19890705
IT8985615 A0	19890705	IT19890085615	19890705
US5040946 A	19910820	US19900548378	19900705

Probable Assignee: MICROTURBINES TECHNOLOGIES INC

Assignee(s):(std): EBARA CORP ; NOWAX SRL

Assignee(s): NOWAX SR ; MICROTURBINES TECHNOLOGIES INC ; NOWAX S R L ; NOWAX SR1 ; EBARA CORP TOKIO TOKYO JP ; EBARA 11 1 HANEDA ASAHICHO OHTA KU TOKYO 144 JAPAN ; EBARA 11 1 HANEDA ASAHICHO OHTA KU TOKYO 144 JAPAN CORP

Inventor(s):(std): CAODURO BRUNO

Inventor(s): CAODURO BRUNO MONTECCHIO MAGGIORE VICENZA IT ; BRUNO CAODURO

Designated states: AT BE CH DE DK ES FR GB GR IT LI LU NL SE

International class (IPC 8–9): B21D26/02 B21D26/021 F04D1/06 F04D29/42 F04D29/44 F04D9/06 (Advanced/Invention)

International class (IPC 1–7): B21D26/02 F01D25/24 F04D29/42 F04D9/06

CPC: Y10T29/49243 Y10T29/49245 B21D26/021 B21D26/02 F04D1/063 F04D9/06 F04D29/4266 F04D29/445

European class: B21D26/02 B21D26/021 F04D1/06B F04D29/42P1 F04D29/44P F04D9/06

US class: 29/888.024 29/888.025 415/182.1 415/199.1 415/206 72/336 72/340 72/379.4 72/62

Classification Explorer

Cited documents: US4513598 A, US4265102 A, US3289923 A, US2634685 A, US2609775 A, US2372917 A, SU918564, JP42024838 B4, JP42024838 B1, GB612664 A, GB2385, GB191002385 A, EP0379196 A2, DE3716176 A1, DD145944 A1,

Forward Citations: WO9823864, US9517528, US9382034, US9334876, US8978922, US8584726, US8579603, US8474684, US8245750, US8172523, US7946810, US6506017, US6195889, US5888053, US5823739, US5494403, US5451139, US5402569, US5235744, US5131142, US2013306659, US2012251308, US2009246039, US2009214332, US2009199959, US2009199946, US2008085185, US2006013707, ITVI20100075, ES2168205, ES2161191, EP2505842, EP2366905, EP2087962, EP1158178, EP0879360, EP0726397, EP0552661, CN102734176, CN102192190,

Abstract:
Source: EP0406787A2 A case (1) for single– or multi–stage pumps having at least one centrifugal radial impeller, and a method for the manufacture of such case with metal plate. The case includes, for each stage and for each impeller, a substantially cylindrical lateral wall (2) and a device (15) for diffusing and directing the flow delivered from the impeller of each stage, which case has, in the lateral wall thereof, at least one volute with a uniformly increasing transverse cross section which is outwardly closed and is formed by an initial portion (17), an intermediate portion (18) and a final portion (19) which are mutually blended in a continuous manner. The initial and intermediate portions extend circumferentially to collect and diffuse the radial flow to the delivery port (4) of the impeller, whereas the end of the final portion is axially offset with respect to the initial and intermediate

portions and is directed inwardly of the case to convey the flow toward a central region of the pressure chamber adjacent to the impeller.

0) EP0452631A1 – DILATATION CATHETER. DILATATIONSKATHETER. CATHE...

257) Family number: 11365298 (EP0452631A1) © PatBase

Title: DILATATION CATHETER.

Priority: DE19904012649 19900420 DE19915003739 19910222

Family:

Publication number	Publication date	Application number	Application date
AT114949 E	19941215	AT19910102590T	19910222
DE4012649 A1	19911031	DE19904012649	19900420
DE4012649 C2	19970109	DE19904012649	19900420
DE59103739 D1	19950119	DE19915003739	19910222
EP0452631 A1	19911023	EP19910102590	19910222
EP0452631 B1	19941207	EP19910102590	19910222

Probable Assignee: OSYPKA PETER

Assignee(s):(std)**:** OSYPKA PETER

Assignee(s): OSYPKA PETER DR ING ; OSYPKA PETER DR ING 7889 GRENZACH WYHLEN DE ; OSYPKA PETER DR ING 79639 GRENZACH WYHLEN DE

Inventor(s):(std)**:** OSYPKA PETER DR ING

Inventor(s): OSYPKA PETER DR ING 7889 GRENZACH WYHLEN DE ; OSYPKA PETER DR ING 79639 GRENZACH WYHLEN DE

Designated states: AT BE CH DE ES FR GB IT LI NL SE

International class (IPC 8–9)**:** A61B17/22 (Advanced/Invention); A61B17/22 (Core/Invention)

International class (IPC 1–7)**:** A61B17/22 A61M29/00

CPC: A61B17/22

European class: A61B17/22

Classification Explorer

Cited documents: WO9003760 A1, WO8901800 A1, US4854330 A, US4030503 A, EP0267539 A1, EP0199870 A2, EP0177782 A1, DE3812022 A1, DE3732236 C1, DE3635183 A1,

Forward Citations: WO9904701, US9017294, US8435218, US8414543, US7909801, US7645261, US7507246, US7037316, US6926725, US6602264, US6090118, US6007530, US5549601, US5527298, EP2276411, EP2276411, DE19504261, DE19504260,

Abstract:
A dilatation catheter (1) for reducing or eliminating vascular constrictions or vascular occlusions (2) has at its distal end at least one pressure element (3) and, possibly, also a second pressure element (16) which is spaced apart from the first pressure element (3). The pressure element or pressure elements are used to exert a pressure on the constricted vessel wall in order to force back deposits which are present there and in this way to once again enlarge the inner lumen of the vessel (4). For this purpose the catheter (1) is mounted rotatably and can be connected at the proximal end to a rotational drive mechanism (5). In order to be able to produce inside a vessel (4) a greater circumference or cross−section than is predetermined by the pressure element(s) (3 and/or 16), the catheter (1) has an inner guide channel (6) for a stylet (7) and is flexible near the pressure elements (3 and 16) so that it can be bent or deflected. Near its end (8) projecting in the use position up to or into the pressure elements (3) or the pressure elements (16), the stylet has as a supporting and guiding means a first bend or curve (9) and can in turn be coupled to a rotational drive mechanism (5) and can in this way be driven in rotation, preferably in synchronism with the catheter (1) so that the pressure element or pressure elements are moved not only about their own axis, but at the same time eccentrically in a circular orbit.

258) Family number: 22558195 (GB1001992A) © PatBase

Title: Reinforcement of a settable material with a fibrous material

Priority: GB19630018539 19630510

Family:

Publication number	Publication date	Application number	Application date
GB1001992 A	19650818	GB19630018539	19630510

Probable Assignee: FIBREGLASS LTD

Assignee(s):(std)**:** FIBREGLASS LTD

Assignee(s): FIBREGLASS LIMITED

Inventor(s):(std)**:** JOSEPH CURT BOAS

International class (IPC 8–9)**:** B29C37/00 (Advanced/Invention); B29C37/00 (Core/Invention)

International class (IPC 1–7)**:** B05C17/02

CPC: B29C37/0064

European class: B29C37/00G2

Classification Explorer

Forward Citations: FR2664198,

Abstract:
Source: GB1001992A 1,001,992. Rollers. FIBREGLASS Ltd. Aug. 4, 1964 [May 10, 1963], No. 18539/63. Heading F2U. Apparatus for the reinforcement of a settable material, such as polyester resin, with a fibrous material, such as chopped strand glass fibre mat, includes a hollow roller preferably made of metal and provided with perforations for the flow of the resin to the surface of the roller, which is of discontinuous form to permit the escape of air removed from the fibrous material. As shown in Fig. 2, the surface of the roller has annular ribs 5, with radial perforations 3 in the intervening channels 4. In an alternative form, Fig. 1 (not shown), the ribs 5 are helical. In Fig. 6 the roller has perforations 12 and longitudinal ribs 11 which may be continuous or interrupted. The ribs may be integral with the roller body as shown, or detachable, in which latter case they may be of metal or rubber. A number of sections may be secured together axially to form a long roller, and the roller may be tapered or barrel–shaped.

0) US5113855A – POWDER INHALER

259) Family number: 5021136 (US5113855A) © PatBase

Title: POWDER INHALER

Priority: US19900484069 19900214 US19920831507 19920319

Family:

Publication number	Publication date	Application number	Application date
US5113855 A	19920519	US19900484069	19900214
US5201308 A	19930413	US19920831507	19920319

Probable Assignee: NEWHOUSE MICHAEL T

Assignee(s):(std)**:** NEWHOUSE MICHAEL T

Inventor(s):(std)**:** NEWHOUSE MICHAEL T

International class (IPC 8–9)**:** A61M15/00 (Advanced/Invention); A61M15/00 (Core/Invention)

International class (IPC 1–7)**:** A61M15/00 A61M16/00

CPC: A61M15/0091 A61M15/0016 A61M15/0018 A61M2202/062 A61M2202/064 A61M2205/073 A61M15/0066 A61M15/0093 A61M15/0098

European class: A61M15/00D A61M15/00T K61M15/00A11C K61M15/00A12 K61M15/00T8 K61M202/06A2 K61M202/06B K61M205/07A1

US class: 128/203.12 128/203.15 128/203.21

Classification Explorer

Cited documents: US5113855 A, US4534343 A, US4274403 A, US2587215 A, US2581182 A, US2579280 A, US2570774 A,

Forward Citations: WO9506491, WO9506491, WO9500254, WO9428957, WO9423772, WO9423772, WO9415716, WO9411044, WO9411044, WO9405360, WO9325258, WO16202800, WO16170009, WO15091287, WO15091285, WO14124757, WO14095920, WO13175013, WO13139712, WO13068554, WO13068552, WO13017461, WO13010881, WO13010880, WO12160030, WO12146667, WO12069202, WO12041476, WO11141180, WO11039579, WO10097172, WO09134157, WO09134157, WO08077623, WO08001744, WO07009872, WO06030210, WO06030210, WO05086915, WO05016423, WO05016423, WO04103447, WO04103447, WO04064705, WO04012801, WO03086517, WO03086515, WO03020197, WO02102444, WO0187390, WO0187378, WO0187378, USRE46417, USRE35552, USD629888, USD629887, USD629886, USD629506, USD629505, USD469527, US9662461, US9655850, US9630930, US9610351, US9566402, US9555201, US9511198, US9492625, US9463288, US9452272, US9446133, US9446001, US9427533, US9364619, US9364436, US9346766, US9346759, US9339615, US9333195, US9328120, US9326936, US9283193, US9254262, US9241903, US9233159, US9220687, US9205208, US9192675, US9108918, US9102679, US9096603, US9079905, US9056100, US8912201, US8869794, US8851069, US8815838, US8809345, US8802699, US8802149, US8800550, US8794232, US8714151, US8651104, US8651103, US8648085, US8629139, US8623901, US8623879, US8590530, US8567394, US8563731, US8561609, US8550070, US8546423, US8524908, US8524735, US8524734, US8513279, US8511302, US8420669, US8408208, US8408200, US8357696, US8337895, US8308028, US8283342, US8273330, US8261737, US8251059, US8242177, US8230856, US8205614, US8205613, US8183525, US8181647, US8178679, US8173168, US8161969, US8132565, US8129405, US8069851, US8044205, US7964615, US7897617, US7854226, US7828150, US7814900, US7785631, US7784460, US7780991, US7750023, US7744925, US7721731, US7571724, US7571723, US7559325, US7521069, US7490603, US7464704, US7448375, US7422013, US7383837, US7318436, US7300919, US7299802, US7278419, US7219665, US7214687, US7207330, US7196098, US7185651, US7172766, US7143765, US7138141, US7131441, US7107988, US7097827, US7078412, US7036505, US7021309, US6983748, US6948494, US6926003, US6923178, US6921527, US6901929, US6892727, US6886560, US6840239, US6797258, US6779520, US6737045, US6718972, US6705316, US6685967, US6681768, US6681767, US6679374, US6679256, US6655380, US6655379, US6626171, US6606992, US6595209, US6592904, US6591832, US6582728, US6561186, US6550477, US6546929, US6543448, US6509006, US6484715, US6431166, US6423344,

US6390291, US6387394, US6352152, US6332461, US6328034, US6328032, US6315112, US6257233, US6240918, US6209538, US6182655, US6180596, US6138668, US6132394, US6119688, US6105929, US6089228, US6062214, US6051256, US6041779, US6029661, US6012454, US5997848, US5993783, US5988163, US5975076, US5964417, US5962009, US5957124, US5857457, US5849502, US5823183, US5780014, US5775320, US5765552, US5752505, US5740794, US5738865, US5702362, US5699789, US5692496, US5673685, US5658877, US5653227, US5612053, US5577497, US5568884, US5533502, US5524613, US5522385, US5505196, US5503144, US5469843, US5458135, US5447151, US5437271, US5435301, US5383850, US5368016, US5341801, US5327883, US5320714, US5295479, US5263475, US5239992, US5201308, US2014318538, US2013233313, US2012006323, US2011212960, US2011184000, US2011118223, US2011108727, US2011082137, US2011041840, US2011028442, US2011020454, US2010330186, US2010324000, US2010234333, US2010166673, US2010158957, US2010136121, US2010087416, US2010087386, US2010065739, US2010056486, US2010048615, US2010040560, US2010037890, US2010034910, US2010024815, US2010012120, US2009299042, US2009285905, US2009260626, US2009260623, US2009241950, US2009211576, US2009205656, US2009145432, US2009134655, US2009111785, US2009090360, US2009056710, US2009050149, US2009042933, US2008314383, US2008289629, US2008264416, US2008230058, US2008221155, US2008146603, US2008099010, US2008060644, US2008051378, US2008045565, US2007251950, US2007246044, US2007235469, US2007232637, US2007215151, US2007209661, US2007186927, US2007167489, US2007163580, US2007163576, US2007062522, US2007042048, US2007039618, US2007039614, US2007020199, US2006292085, US2006283445, US2006205702, US2006189651, US2006185672, US2006154934, US2006093556, US2006076010, US2006032763, US2005288266, US2005279349, US2005274377, US2005267078, US2005183723, US2005158394, US2005150492, US2005090798, US2005056281, US2005028814, US2005026948, US2005016533, US2005005933, US2004255939, US2004206350, US2004187869, US2004182383, US2004175328, US2004168687, US2004089561, US2004069303, US2004062722, US2004000309, US2003232020, US2003215514, US2003209453, US2003209243, US2003192539, US2003192538, US2003171282, US2003168057, US2003164169, US2003150448, US2003140923, US2003136406, US2003129141, US2003072718, US2003068279, US2003035778, US2002192164, US2002168322, US2002134382, US2002124852, RU2603615, KR101392649, KR101335333, JP5740721, JP2014042831, ITMO20090240, GB2430379, GB2430379, FR2700279, EP2968802, EP2954891, EP2954890, EP2954889, EP2946769, EP2946768, EP2848615, EP2774623, EP2774622, EP2738172, EP2666465, EP2641900, EP2594272, EP2592078, EP2592077, EP2554544, EP2548876, EP2548863, EP2527344, EP2526945, EP2518071, EP2518070, EP2489663, EP2463289, EP2441755, EP2394998, EP2386555, EP2380890, EP2319538, EP2292267, EP2263998, EP2226323, EP2196465, EP2138188, EP2100599, EP2100598, EP2096105, EP2033678, EP2002845, EP2002844, EP2002843, EP1905451, EP1891974, EP1891973, EP1872817, EP1765404, EP1763369, EP1763368, EP1707232, EP1658872, EP1496969, EP1470833, EP1404400, EP1386630, EP1231964, EP0893135, EP0844007, EP0668787, EP0611577, DE4319514, DE4319514, DE4239402, AU701312, AU687103, AU2007338305,

Abstract:
Source: US5113855A A powdered medication inhaler is provided which comprises a body having a hollow chamber of substantial height. Powdered medication is transferred from a hopper by a dosing blade having an amperture therein to a transfer station opening into a chamber. In most embodiments of the invention the transfer station is adjacent the upper portion of the chamber, but in one embodiment it is adjacent the lower portion thereof. When the transfer station is adjacent the upper portion of the chamber it includes a pallet or cup on which powdered medication is dropped or blown from the dosing blade. Gas then carries the medication from the cup or pallet into the chamber for inhalation by a patient. In the embodiment in which the transfer station is adjacent the bottom of the chamber compressed gas blows the powder up into the chamber.

0) US5765510A – RETRACTABLE, SEALED SOOTBLOWER FOR HIGH PRESSUR...

260) Family number: 10969341 (US5765510A) © PatBase

Title: Retractable, sealed sootblower for high pressure, high temperature applications

Priority: US19960638452 19960426

Family:

Publication number	Publication date	Application number	Application date
US5765510 A	19980616	US19960638452	19960426

Probable Assignee: DELTAK LLC

Assignee(s):(std)**:** DLTK INC

Assignee(s): JASON INC ; JASON NEVADA INC ; MORGAN STANLEY AND CO INC ; BANK OF AMERICA NA ; BANKERS TRUST CO ; DELTAK LLC ; DELTAK NEVADA INC

Inventor(s):(std)**:** KROWECH ROBERT J ; OLSON MICHAEL J

International class (IPC 8–9)**:** F28G15/04 F28G3/16 (Advanced/Invention); F28G15/00 F28G3/00 (Core/Invention)

International class (IPC 1–7)**:** F22B37/18 F22B37/48 F28G1/00

CPC: F28G3/16 F28G15/04

European class: F28G15/04 F28G3/16

US class: 122/379 122/390 122/391 122/392 15/317

Classification Explorer

Cited documents: US915347 A, US821087 A, US803562 A, US5230306 A, US5097564 A, US5040262 A, US4583496 A, US4421067 A, US4333742 A, US4257359 A, US4257355 A, US4093242 A, US4018267 A, US3835817 A, US3750230 A, US3541999 A, US3123132 A, US3089468 A, US2803842 A, US2309889 A, US2263595 A, US2112896 A, US2109855 A, US2066014 A, US1978555 A, US1614502 A, US1577309 A,

Forward Citations: WO05017438, US9671183, US9541282, US9261307, US8656567, US8621732, US8387194, US8381690, US7865995, US6101985, US2010139890, US2010132142, US2009151656, US2007089253, US2007057418, US2007045584, US2005126594, US2005125932, NL1024113, EP1668307, CN103080281,

Abstract:
Source: US5765510A A retractable sootblower for avoiding and dislodging accumulated soot and ash. The sootblower includes an elongate housing and a blowing tube or blowing tube assembly reciprocable in the housing. The blowing tube is extended and retracted by pressurized gas. Pressurized gas is also applied to the sootblower. An internal gas channeling arrangement couples the pressurized gas to the blowing tube when the blowing tube is extended. The pressurized gas is thus discharged from the blowing tube when the blowing tube is extended. Additional structure is provided for rotating the blowing tube as it moves from the retracted position to the extended position.

0) US2003078608A – SURGICAL INSTRUMENT

261) Family number: 30150082 (US2003078608A) © PatBase

Title: Surgical instrument

Priority: GB19880029182 19881214 US19890450130 19891213 US19910789779 19911108 US19920900555 19920618 US20020176102 20020618 US19970951288 19971016 US19970799864 19970214 US19950401537 19950310 US19930010505 19930128

Family:

Publication number	Publication date	Application number	Application date
EP0373927 A2	19900620	EP19890313067	19891214
EP0373927 A3	19910424	EP19890313067	19891214
GB8829182 A0	19890125	GB19880029182	19881214
JP2271847 A2	19901106	JP19890321607	19891213
JP3052145 B2	20000612	JP19890321607	19891213
US2003078608 AA	20030424	US20020176102	20020618
US5423799 A	19950613	US19930010505	19930128
US6443966 BA	20020903	US19970951288	19971016

Probable Assignee: COVIDIEN LP

Assignee(s):(std)**:** INTRAVASCULAR MEDICAL INC ; MEDTRONIC INC ; SHIU MAN FAI ; UNIV BIRMINGHAM

Assignee(s): MEDTRONIC INC A CORP OF MN ; TYCO HEALTHCARE GROUP LP ; UNIVERSITY OF BIRMINGHAM ; COVIDIEN LP ; ENDICOR MEDICAL INC ; EV3 ENDOVASCULAR INC ; EV3 ENDOVASCULAR LLC ; EV3 INC ; EV3 LLC

Inventor(s):(std)**:** INDO KAPADEIA ; INDOU KAPADEIA ; MAN FUEI SHIYUU ; MAN FUEI SHUU ; SHIU MAN F ; SHIU MAN FAI

Designated states: DE FR GB NL

International class (IPC 8–9)**:** A61B17/00 A61B17/22 A61B17/32 A61B17/3211 (Advanced/Invention)

International class (IPC 1–7)**:** A61B17/00 A61B17/22 A61B17/32 H61B17/32

CPC: A61B17/320758 A61B2017/00685 A61B2017/22038

European class: A61B17/3207R K61B17/00Q2 K61B17/01A K61B17/22G

US class: 606/159 606/167 606/167P 606/170 606/180

Classification Explorer

Cited documents: WO8906517 A1, US5454809 A, US5403334 A, US5269793 A, US5195956 A, US5178625 A, US5092839 A, US5087265 A, US5078723 A, US5071425 A, US5047040 A, US5030201 A, US5026384 A, US5019088 A, US5009659 A, US5007896 A, US5002553 A, US4994067 A, US4990134 A, US4986807 A, US4979951 A, US4979939 A, US4966604 A, US4957482 A, US4950238 A, US4926858 A, US4923462 A, US4919133 A, US4894051 A, US4887613 A, US4886490 A, US4883458 A, US4870953 A, US4867157 A, US4857046 A, US4850957 A, US4844064 A, US4842579 A, US4819634 A, US4794931 A, US4790812 A, US4784636 A, US4781186 A, US4771774 A, US4765332 A, US4754755 A, US4747406 A, US4745919 A, US4732154 A, US4729763 A, US4728319 A, US4706671 A, US4696667 A, US4695667 A, US4686982 A, US4679558 A, US4669469 A, US4664112 A, US4653496 A, US4646738 A, US4646736 A, US4646719 A, US4631052 A, US4603694 A, US4589412 A, US4512344 A, US4490139 A, US4445509 A, US4436091 A, US4368730 A, US4273128 A, US4177797 A, US4038958 A, US4030503 A, US4007732 A, US3976077 A, US3945375 A, US3937222 A, US3800783 A, US3749085 A, US3732858 A, US3683891 A, US3614953 A, US3082805 A, US3064651 A, US2850007 A, US2701559 A, SU665908 T, SU442795 T, GB2093353 A1, EP0421457 A1, EP0330843 A1, EP0291170 A1, EP0086048 A2, DE3732236 A1, CA2000621 AA,

Forward Citations: WO03051209, WO0139673, WO0066010, WO0051504, WO0051503, USD647613, US9668767, US9655633, US9629684, US9615850, US9597110, US9579157, US9561094, US9554822, US9532844, US9532799, US9526519, US9498604,

US9492193, US9492192, US9486237, US9474573, US9456843, US9445834, US9433437, US9381062, US9375234, US9345511, US9345461, US9339293, US9333007, US9326789, US9314263, US9308016, US9241733, US9220530, US9198679, US9192406, US9186177, US9119662, US9119656, US9107693, US9095371, US9055971, US9055964, US9028512, US9017294, US8998937, US8992717, US8961546, US8961519, US8945166, US8920450, US8920448, US8911459, US8888801, US8882755, US8845580, US8808186, US8795306, US8784440, US8784333, US8740897, US8647355, US8628549, US8623037, US8597318, US8597315, US8579926, US8574249, US8556914, US8545447, US8518036, US8505545, US8500767, US8496677, US8475487, US8469979, US8460312, US8435218, US8419658, US8414604, US8414543, US8377035, US8366735, US8361098, US8361094, US8337516, US8328829, US8277470, US8246640, US8236016, US8226674, US8201563, US8192452, US8157719, US8097012, US8096957, US8070762, US8062258, US8052704, US8043287, US8007506, US7989207, US7981128, US7947062, US7931659, US7927784, US7922738, US7909801, US7887556, US7854742, US7842055, US7841994, US7824423, US7819833, US7794413, US7771445, US7771444, US7713279, US7708749, US7699790, US7655016, US7645261, US7618434, US7591790, US7544203, US7517352, US7507246, US7485125, US7479147, US7316697, US7235088, US7172610, US7104966, US7037316, US6945977, US6926725, US6818002, US6814743, US6790215, US6767353, US6758851, US6702830, US6699214, US6673023, US6666874, US6660014, US6623495, US6602264, US6482217, US6454779, US6454775, US6451036, US6440148, US6238405, US6206898, US6090118, US6068637, US6066152, US6022363, US6001112, US5902263, US5851208, US5702412, US5676545, US5643298, US5643297, US5632755, US5284486, US5263959, US5242460, US5147376, US2014277039, US2014249554, US2013274782, US2013060206, US2012130375, US2011218518, US2011208207, US2011172700, US2011166587, US2011152906, US2011144679, US2011112563, US2010256483, US2010204672, US2010185208, US2009234378, US2009024085, US2009018566, US2009018565, US2008132926, US2008097247, US2008065062, US2008045986, US2008004647, US2008004646, US2008004644, US2008004643, US2007255172, US2007208298, US2007208297, US2007138915, US2007078471, US2007032808, US2006241586, US2006229645, US2006206134, US2006206133, US2006206132, US2006206131, US2006206130, US2006206129, US2006206128, US2006206127, US2006106409, US2006058838, US2006058836, US2005234445, US2005209530, US2005177211, US2005177073, US2005143768, US2005033334, US2005027309, US2005015021, US2004219028, US2004170651, US2004147873, US2004082962, US2004059254, US2003216761, US2003191483, US2003187468, US2003125758, US2003037570, US2003028206, US2002188307, US2002138091, US2002077642, US2002022788, JP5220153, JP4578805, JP2005512631, EP1870044, EP1455663, EP1158910, EP0814711, EP0657140, EP0526041, DE10162933, DE10162933, DE10049815, DE10049815,

Abstract:
Source: US2003078608A A medical device is provided for removing material from a body vessel comprising a tube, a drive shaft extending through the tube, a cutter member rotatable around its access having a tip and relatively sharp cutting edges extending outwardly from the access, and a housing enclosing the cutting edges of the cutter member so that the tip of the cutter member extends outside the housing to cut material in cooperation with the housing.

0) US3540993A – SPUTTERING APPARATUS

262) Family number: 31192017 (US3540993A) © PatBase

Title: SPUTTERING APPARATUS

Priority: BE19650021744 19651217 BE19650673939 19651217 BE19670050663 19671110
CH19700015010 19701007 NO19680004689 19681125 NO19660164352 19660818
CH19650017502 19651218 DE19742459030 19741213 BE19670706328 19671110
US19690842051 19690508

Family:

Publication number	Publication date	Application number	Application date
AR207605 A1	19761015	AR19750261531	19750101
AT271132 B	19690527	AT19660011107	19661201
AT279994 B	19700325	AT19680010898	19681108
BE673939 A	19660617	BE19650673939	19651217
BE691083 A	19670516		19661212
BE706328 A	19680510		19671110
CH456294 A	19680515	CH19650017502	19651218
CH478255 A	19690915	CH19660015879	19661103
CH497544 A	19701015	CH19680016736	19681108
CH527917 A	19720915	CH19700015010	19701007
CH593836 A	19771215	CH19750014693	19751112
DD122355 C	19761005	DD19750190105	19751212
DE1515294 A1	19690814	DE19661515294	19661116
DE1515294 B2	19720608	DE19661515294	19661116
DE1515294 C3	19730104	DE19661515294	19661116
DE1515296 A1	19690814	DE19661515296	19660909
DE1765850 A1	19711028	DE19681765850	19680726
DE2459030 A1	19760624	DE19742459030	19741213
DE2459030 B2	19761111	DE19742459030	19741213
DE2459030 C3	19770721	DE19742459030	19741213
DK129950 B	19741202	DK19660006437	19661212
DK129950 C	19750520	DK19660006437	19661212
DK131005 B	19750512	DK19680005450	19681108
DK131005 C	19751110	DK19680005450	19681108
DK136767 B	19771121	DK19750005656	19751212
DK136767 C	19780508	DK19750005656	19751212
DK565675 A	19760614	DK19750005656	19751212
ES330812 A1	19690816	ES19660330812	19660901
ES360009 A1	19701016	ES19680360009	19681108
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FR1505170 A	19671208	FR19660087909	19661219
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FR2294100 B1	19820319	FR19750038102	19751212
FR96080 E	19720519		00000000
GB1113579 A	19680515	GB19660053527	19661130
GB1162832 A	19690827	GB19660039140	19660901
GB1214178 A	19701202	GB19680039039	19680815
GB1505170 A	19780330	GB19750048979	19751128
IT1051344 A	19810421	IT19750069999	19751205
JP49029818 B4	19740807	JP19680081956	19681111

JP51084381 A2	19760723	JP19750147478	19751212	
LU51389 A	19660822	LU19660051389	19660622	
LU57245 A	19690211		19681105	
NL130959 C	00000000		00000000	
NL149234 B	19760415	NL19660010803	19660801	
NL6600953 A	19670619	NL19660000953	19660125	
NL6610803 A	19670619	NL19660010803	19660801	
NL6815865 A	19690513	NL19680015865	19681107	
NO116568 B	19690414	NO19660164352	19660818	
NO119659 B	19700615	NO19680004689	19681125	
NO120815 B	19701207	NO19680004448	19681108	
SE320247 B	19700202	SE19660009930	19660720	
SE324684 B	19700608	SE19660017139	19661214	
SE347296 B	19720731	SE19680015034	19681106	
SE423520 B	19820510	SE19750013992	19751211	
SE423520 C	19820819	SE19750013992	19751211	
SE7513992 A	19760614	SE19750013992D	19751211	
SU569277 D	19770815	SU19752197001	19751208	
SU569277 T	19770815	SU19752197001	19751208	
US3516919 A	19700623		19661216	
US3540993 A	19701117		19660916	
US3595773 A	19710727		19690508	
US3619402 A	19711109		19681011	
US3972436 A	19760803	US19750637082	19751202	

Probable Assignee: BALZERS PATENT BETEILIG AG

Assignee(s):(std)**:** BALZERS PATENT BETEILIG AG ; BENDIX CORP ; BALZERS HOCHVAKUUM ; BALZERS PATENT UND LIZENZANSTA ; COMMUNAUTE EUROPEENNE DE L ENERGIE ATOMIQUE ; GRAU HERMANN ; GERMANN GRAU ; EURATOM ; EUROPESE GEMEENSCHAP VOOR ATOOMENERGIE EURATOM B ; GRAU HERMANN 7071 LINDACH ; GRAU H ; GRAU E ; EUROPEAN ATOMIC ENERGY COMMUNITY EURATOM BE ; HERUMAN GURAU

Assignee(s): COMMUNAUTE EUROPEENNE DE L ENERGIE ATOMIQUE EURAT ; HERMANN GRAU ; GERMANN GRAU DT ; COMMUNAUTE EUROPEENNE DE L ENERGIE ATOMIQUE EURATOM ; EUROPESE GEMEENSCHAP VOOR ATOOMENERGIE EURATOM BRUSSEL ; EUROPEAN ATOMIC ENERGY COMMUNITY EURATOM ; EUROPAEISCHE ATOMGEMEINSCHAFT EURATOM ; EUROPAEISCHE ATOMGEMEINSCHAFT ; BALZERS PATENT UND BETEILIGUNGS AKTIENGESELLSCHAFT ; BALZERS HOCHVAKUUM GMBH 6000 FRANKFURT ; BALZERS VAKUUM GMBH ; BALZERS PATENT UND LIZENZANSTALT ; BALZERS PATENT UND LIZENZ ANSTALT ; BENDIX CORP THE ; BALZERS PATENT U LIZENZANSTA ; BALZERS PATENT UND BETEILIGUNGS AG ; BALZERS PATENT U BETEILIGUNGS AG

Inventor(s):(std)**:** AU HERMANN ; BEUCHERIE P ; BEUCHERIE PIERRE HEINRI ; BEUCHERIE PIERRE ; BLOCK M ; BEUCHERIE P IT ; GAYDOU FRANCOIS ; GAYDOU FRANCOIS DR ; BLOCK MICHEL ; GERMANN GRAU DT ; BLOCK M IT ; GAYDOU F ; FRANCOIS GAYDOU DR ; JENNE RUDOLF ; GRAU HERMANN ; GRAU GERMANN ; JOSEPH WURM ; MICHEL BLOCK ; JOSEPH WURM DR DIPL ING ; HERMANN GRAU ; JOSEPH WURM TE BRUSSEL ; MICHEL BLOCK TE OSMATE ; JENNE R ; GRAU H ; HERUMAN GURAU ; ITALIE ; LUDWIG ROESSLER ; WURM JOSEPH GERARD ; WURM JOSEPH ; PIERRE BEUCHERIE ; WURM J ; WURM J IT ; PIERRE BEUCHERIE DIPL ING ; PIERRE HEINRI BEUCHERIE TE BIANDRONO ; RUDOLF JENNE

Inventor(s): ROESSLER LUDWIG ; JOSEPH WURM DRDIPL ING ; JOSEPH GERARD WURM ; FRANCOIS GAYDOU

International class (IPC 8–9): B65D41/04 B65D41/08 B65D50/04 C23C14/32 C23C14/34 C23C14/35 C23C14/40 H01B1/00 H01J37/32 H01J37/34 H01L21/30 H01L21/302 H01L21/3065 (Advanced/Invention); B65D41/04 B65D50/00 C23C14/32 C23C14/34 C23C14/35 C23C14/36 H01B1/00 H01J37/32 H01L21/02 (Core/Invention);

	C23C (Subclass/Invention)
International class (IPC 1–7):	A61J1/00 B05C B65D41/08 B65D41/62 B65D51/18 B65D51/24 B65D55/02 B65D55/12 B65D85/56 C03C17/08 C23C11/00 C23C13/00 C23C13/12 C23C15/00 C23C7/00 H01H11/04 H01J37/04 H01J37/32 H01J37/34
CPC:	C23C14/3407 C23C14/355 H01B1/00 H01J37/32623 H01J37/3402 C23C14/32 H01J37/34 C23C14/3478
European class:	B65D50/04B C23C14/32 C23C14/34B C23C14/34G2 C23C14/35F2 H01B1/00 H01J37/32D1C H01J37/32O8 H01J37/34 H01J37/34M
US class:	204/192 204/192.12 204/192.25 204/298 204/298.02 204/298.06 204/298.07 204/298.12 204/298.16 215/220
Classification Explorer	
Cited documents:	US3857505 A, US3540993 A, US3501393 A, US3451917 A, US3394829 A, US3386909 A, US3369990 A, US3305473 A, US3291715 A, US3287243 A, US3250694 A, US3021271 A, US2920002 A, US2148045 A, US2146025 A, US2100045 A, US2069835 A,
Forward Citations:	WO9916925, WO9750108, WO9201082, WO8604616, US8627968, US8398832, US8158016, US7557362, US7141145, US6783639, US6565717, US6555241, US6551471, US6382444, US6368469, US6297595, US6264812, US6254737, US6228229, US6217715, US6190513, US6168690, US6162500, US6146508, US6132566, US6103070, US6085920, US6077402, US5762215, US5707498, US5567261, US5567005, US5529674, US5437778, US5391281, US5346601, US5073245, US4798663, US4559125, US4559121, US4491509, US4489834, US4461954, US4247383, US4217194, US4006070, US3856654, US3839182, US3669871, US3619402, US2010264108, US2009205955, US2008179284, US2007194245, US2006070875, US2005145086, US2005072664, US2004256217, US2004045923, US2002144901, RU2524879, JP54155009, JP2002356770, GB2138410, FR2354393, EP1151456, EP1113088, EP0817238, EP0807954, EP0440361, EP0184795, EP0055344, DE4345602, DE4310941, DE3206421, DE2220086, DE19923018, DE19923018,

Abstract:
Source: US3540993A A safety closure cap having a first closure member and a second closure member rotatably retained therein. The second closure member may be screwably attached to a container, so that the cap closes the container by rotation of the first closure member in the closing direction, the two closure members being coupled together for this purpose. For removing the cap from the container the cap is provided with a further coupling arrangement which can be engaged when the two closure members are moved together, rotation of the first closure member in a direction opposite to the closing direction causing simultaneous screwable rotation of the second closure member from the container.

0) US6074050A – METHOD AND APPARATUS FOR VENTING AN INK CONTAIN...

263) Family number: 31808827 (US6074050A) © PatBase

Title: Method and apparatus for venting an ink container

Priority: US19970984219 19971203

Family:

Publication number	Publication date	Application number	Application date
CN1106942 C	20030430	CN19981023403	19981019
CN1218742 A	19990609	CN19981023403	19981019
DE69812852 D1	20030508	DE19986012852	19981130
DE69812852 T2	20040122	DE19986012852T	19981130
EP0921005 A2	19990609	EP19980309798	19981130
EP0921005 A3	19991208	EP19980309798	19981130
EP0921005 B1	20030402	EP19980309798	19981130
ES2197426 T3	20040101	ES19980309798T	19981130
JP11227223 A2	19990824	JP19980341880	19981201
JP4165725 B1	20081015	JP19980341880	19981201
JP4165725 B2	20081015	JP19980341880	19981201
US6074050 A	20000613	US19970984219	19971203

Probable Assignee: HEWLETT PACKARD DEVELOPMENT CO LP

Assignee(s):(std): HEWLETT PACKARD CO

Assignee(s): HEWLETT PACKARD CO A DELAWARE CORP ; HEWLETT PACKARD CO HP ; HEWLETT PACKARD CO N D GES D STAATES DELAWARE PA ; HEWLETT PACKARD DEVELOPMENT CO LP ; HEWLETT PACKARD CO N D GES D STAATES DELAWARE PALO ALTO ; HP INC ; HEWLETT PACKARAD CO

Inventor(s):(std): BOROSKY N E ; BOROSKY N E JR ; PAWLOWSKI NORMAN E JR ; PEREZ RAUL ; PERITZ R ; PAWLOWSKI JR ; PAWLOWSKI JR NORMAN E ; WERSON R ; WILSON RHONDA

Inventor(s): PAWLOWSKI NORMAN E ; R PERITZ ; R WERSON ; N E BOROSKY ; N E BOROSKY JR ; NE BOROSKY JR

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

International class (IPC 8–9): B41J2/175 (Advanced/Invention); B41J2/175 (Core/Invention)

International class (IPC 1–7): B41J2/175

CPC: B41J2/17506 B41J2/17513 B41J2/17556 B41J2002/17516

European class: B41J2/175C B41J2/175C1 B41J2/175C2 B41J2/175C9 L41J2/175C2C

US class: 347/86

Classification Explorer

Cited documents: WO9411194 A1, US5764259 A, US5650811 A, US5515663 A, US5329294 A, US5233369 A, US4568954 A, US4558326 A, US3371350 A, JP8310003 A2, JP8310003, JP8118676 A2, JP8118676, JP5318760 A2, JP0839820, JP07314709, JP05229137, EP0712727 A2, EP0704308 A1, EP0488829 A2,

Forward Citations: US9522540, US9067425, US7919341, US7674082, US7527367, US7506972, US7494837, US7442526, US7410247, US7384134, US7258435, US7249831, US7086722, US7036918, US7008050, US6746112, US6116723, US2014362147, US2010220129, US2010150637, US2008206017, US2005179734, US2005093945, US2005083384, US2004201654, US2003206220, US2002191060, US2002024570, TWI337942, EP1238808, EP0976564, EP0976564, EP0941854, EP0941854, CN102848736, CN102848736,

Abstract:
Source: US6074050A Disclosed is a replaceable ink container for providing ink to an ink–jet printing system. The

ink container includes a pressure vessel for pressurizing ink. The ink container has a non−operating state and an operating state. Within the operating state, the pressure vessel has an internal gauge pressure maintained within an operating range so that pressurized ink is provided to the printing system. The ink container also includes a gas vent apparatus communicating between an inside surface of the pressure vessel and an outside atmosphere to allow continuous venting in both the operating and non−operating states. In one preferred embodiment the vent apparatus includes a porous member that is located between a pressurized region of the ink container and an outside atmosphere. This porous member provides a flow path for gas therethrough.

264) Family number: 31388865 (US3351696A) © PatBase

Title: Method for producing regenerated cellulose products

Priority: CH19630001860 19630214 FR19590801445 19590729 FR19610871411 19610823 FR19610871412 19610823 FR19600825044 19600422 FR19620904601 19620720 US19650520032 19651220

Family:

Publication number	Publication date	Application number	Application date
AT243428 B	19651110	AT19630005761	19630718
BE602660 A	00000000		00000000
BE626075 A	00000000		00000000
BE626076 A	00000000		00000000
BE635076 A	00000000		00000000
CH394474 A	19650630	CH19610004634	19610415
CH419438 A	19660831	CH19630001860	19630214
CH424076 A	19661115	CH19630008980	19630717
DE1156934 B	19631107	DE1959U006360	19590721
DE1209279 B	19660120	DE1960U009663	19600525
DE1234916 B	19670223	DE1961C023920	19610419
DE1469060 A1	19681114		19630713
DK107304 C	19670516	DK19610001635	19610421
ES267072 A1	19610716	ES19610267072	19610420
FR1266492 A	19610717	FR19600825044	19600422
FR1307907 A	19621103	FR19590801445	19590729
FR80314 E	19630412	FR19610871411	19610823
FR80315 E	19630412	FR19610871412	19610823
FR82282 E	19640117	FR19620904601	19620720
GB1002403 A	19650825	GB19630028981	19630722
GB892980 A	19620404	GB19590026070	19591029
GB8929801 A1	00000000		00000000
GB910878 A	19621121	GB19610013841	19610417
NL263918 A	00000000		00000000
NL295566 A	00000000		00000000
NL7300200 A	19730326	NL19730000200	19730105
SE301022 B	19680520	SE19610004148	19610420
SE317770 B	19691124	SE19630008049	19630719
US3337671 A	19670822	US19650489378	19650922
US3337673 A	19670822	US19650520032	19651220
US3351696 A	19671107	US19630296117	19630718

Probable Assignee: US CATHETER AND INSTR CORP

Assignee(s):(std): ANENIMA DE FIBRAS ARTIFICIALES ; CHIMIOTES S A ; CHIMIOTEX ; CHIMIOTEX S A ; CHIMIOTEX SA ; CIE IND DES TEXTILES ARTIFICIE ; CTA CIE IND DE TEXTILES ARTIFI ; CTA CIE IND DES TEXTILES ARTIF ; CHIMIOTEX SOC AN ; CIE IND DE TEXTILES ARTIFICIEL ; US CATHETER AND INSTR CORP ; SCHWEIZERISCHE VISCOSE

Assignee(s): INDUSTRIELLE DES TEXTILES ARTIFICIELS ET SYNTHETIQUES S A C T A COMP ; DE LA VISCOSE SUISSE SOC ; INDUSTRIELLE DE TEXTILES ARTIFICIELS ET SYNTHETIQUES COMP ; CTA COMP INDUSTRIELLE DES TEXTILES ARTIFICIELS ET SYNTHETIQUES S A ; CTA COMP INDUSTRIELLE DES TEXTILES ARTIFICIELS ET SYNTHETIQUES ; CTA COMP INDUSTRIELLE DE TEXTILES ARTIFICELS ET SYNTHETIQUES ; UNITED STATES CATHETER AND INSTRUMENT CORP ;

INDUSTRIELLE DE TEXTILES ARTIFICIELS ET COMP ; CTA COMP INDUSTRIELLE DES TEXTILES ARTIFICIEL ; INDUSTRIELLE DES TEXTILES ARTIFICIELS ET COMP ; CTA COMP INDUSTRIELLE DE TEXTILES ARTIFICELS ; CHIMIOTES SA ; ANENIMA DE FIBRAS ARTIFICIALES SOC

Inventor(s):(std)**:** RODIER HENRI ; RODIER H ; PAUL HERRBACH ; NICOLAS DRISCH ; JECKEL NORMAN CHARLES ; JECKEL NORMAN C ; HERRBACH PAUL ; HERRBACH P ; HERBACH PAUL ; HENRI RODIER ; DRISCH NICOLAS ; DRISCH N

International class (IPC 8–9): A61F2/06 A61L27/14 A61L27/16 B29C53/30 D01F11/02 D01F13/02 D01F2/06 D01F2/08 D01F2/10 (Advanced/Invention); B29C53/00 D01F11/00 D01F13/00 D01F2/00 (Core/Invention)

International class (IPC 1–7): A61F1/00 A61F2/06 A61L27/14 B29C53/30 D01F D01F11/02 D01F13/02 D01F2/06 D01F2/08 D01F2/10 D01F3/12 D01F3/14

CPC: B21F45/008 A61L27/16 Y10T29/49877 Y02P70/627 B29C53/305 A61F2/06 A61L27/14 B29C53/30 D01F2/06 D01F2/08 D01F2/10 D01F11/02 D01F13/02

European class: A61F2/06 A61L27/14 A61L27/16 B21F45/00M B29C53/30 B29C53/30B D01F11/02 D01F13/02 D01F2/06 D01F2/08 D01F2/10

US class: 106/166.5 264/189 264/191 264/195 264/196 264/197 264/294 264/296 264/324 29/454

Classification Explorer

Cited documents: US3139467 A, US3109700 A, US3107970 A, US3038778 A, US3018158 A, US3007766 A, US2979767 A, US2974363 A, US2937070 A, US2836181 A, US2832096 A, US2782803 A, US2743759 A, US2584501 A, US2452130 A, US2347101 A, US2321064 A, US2272704 A, US1128480 A, DE941009 A, DE1028284 A, DE1007948 B,

Forward Citations: WO9632077, WO9620078, WO9515130, WO9306781, WO8303349, WO12017034, WO09093954, US9655491, US9655490, US9517121, US9517069, US9510722, US9492049, US9427494, US9382665, US9370292, US9345378, US9345377, US9345376, US9345375, US9345374, US9320403, US9282872, US9282871, US9282870, US9271624, US9271623, US9271622, US9259132, US9259131, US9057158, US9051691, US8993081, US8980055, US8980011, US8906082, US8864945, US8864944, US8778086, US8747451, US8632658, US8540846, US8382814, US8361278, US8216425, US8187422, US8187421, US8177938, US8172746, US7998191, US7998188, US7985321, US7879085, US7718036, US6756007, US6080198, US5906699, US5755659, US5693014, US5645581, US5607478, US5234457, US4871365, US4652263, US4594407, US4588461, US4242411, US4182735, US3806573, US3539679, US3531560, US3458901, US3388117, US2010212850, US2009306764, US2009163987, US2009020248, US2009020139, US2008173419, US2008139887, US2007293932, US2007224419, US2004207115, US2004049264, US2002147490, JP6066088, JP4598671, JP4598671, JP2013533395, JP2004087012, JP1155860, FR2482855, FR2435342, FR2076075, FR2061688, EP1958590, EP1346705, EP1346704, EP0288282, DE1541300, CN103097594, CN101856280,

Abstract:
Source: GB1002403A 1,002,403. Viscose spinning. CHIMIOTEX S.A. July 22, 1963 [July 20, 1963]; No. 28981/63. Addition to 910,878. Heading B5B. The process of the parent Specification (wherein filaments of regenerated cellulose are produced by spinning a viscose having a viscosity of at least 150 poises at 15‹ C. and a gamma value of at least 45 and containing a cellulose having a degree of polymerization of at least 400 into an aqueous coagulating bath containing not more than 40 g./1. of. sulphuric acid and substantially free from zinc sulphate, in the presence of formaldehyde) is modified in that the coagulating bath contains 10 to 120 g./1. of sodium sulphate and not more than 1 percent by weight of zinc sulphate (calculated as the anhydrous salt) and in that neither the viscose nor the spinning bath contain formaldehyde. Also in that the coagulated viscose filaments formed in the spinning bath are subsequently passed through an aqueous intermediate bath containing a small proportion of a water−soluble aldehyde, and then through a regeneration bath consisting of a hot dilute aqueous solution of sulphuric acid. The proportion of spinning bath liquid carried by the filaments of coagulated viscose from the spinning bath is preferably reduced by hydroextraction, mangling or perforated rollers whose hollow interiors are maintained at subatmospheric pressure. The fall in the gamma value of the filaments during their passage from the spinning bath to the intermediate bath is thereby reduced and the proportion of adelhyde taken up by the filaments in the intermediate bath increased. The viscose used preferably contains at least 3 percent of cellulose and at least 1A5 percent of caustic soda and preferably has a gamma value of 55 to 90. The D.P. of the cellulose in the viscose is preferably higher than 500 and its viscosity at the moment of spinning higher than 400 poises at 15‹ C. The spinning bath preferably contains 8 to 40 g./1. of sulphuric acid. The temperature of the first bath is preferably between 5‹ and 40‹ C., especially between 8‹ and 30‹ C. The intermediate bath may be a cold dilute acid bath containing from 1 to 40 grams of a water−soluble aldehyde per litre. The concentration of sulphuric acid and sodium sulphate in the intermediate bath may be similar to that in the coagulating bath. The filaments may be drawn at a draw ratio of at least 2:1 and preferably at least 3:1 in the coagulating bath and/or in the regenerating bath and/or during their passage through the air between these two baths. Specifications 685,631, 711,642 and 720,173 also are referred to.

0) US2006000616A – HYDRAULIC DOWNHOLE OIL RECOVERY SYSTEM

265) Family number: 32532856 (US2006000616A) © PatBase

Title: HYDRAULIC DOWNHOLE OIL RECOVERY SYSTEM

Priority: US20040010641 20041213 US20040884376 20040702 US20040945530 20040920 US20070625748 20070122 US20050293039 20051202 US20070762627 20070613 US20070960698 20071219 US20040945562 20040920 US20040945962 20040922 WO2005US45305 20051213

Family:

Publication number	Publication date	Application number	Application date
CA2590132 AA	20070612	CA20052590132	20051213
CA2590132 C	20130917	CA20052590132	20051213
US2006000616 AA	20060105	US20040945530	20040920
US2006127226 AA	20060615	US20040010641	20041213
US2007253843 AA	20071101	US20070625748	20070122
US2007272416 AA	20071129	US20050293039	20051202
US2008087437 AA	20080417	US20070762627	20070613
US2008149325 AA	20080626	US20070960698	20071219
US7165952 BB	20070123	US20040010641	20041213
WO06078377 A1	20060727	WO2005US45305	20051213

Probable Assignee: CRAWFORD JOE

Assignee(s):(std)**:** CRAWFORD JOE ; CRAWFORD JOE E

Inventor(s):(std)**:** CRAWFORD JOE ; CRAWFORD JOE E

Agent(s): RIDOUT AND MAYBEE LLP; ROBERT GREESON, 7TH FLOOR; ROBERT GREESON 7TH FLOOR; COX SMITH MATTHEWS INC

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 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

International class (IPC 8–9): E21B33/12 E21B43/00 E21B43/12 F04B17/00 F04B35/02 F04B49/06 (Advanced/Invention); E21B33/12 E21B43/00 E21B43/12 F04B17/00 F04B35/00 F04B49/06 (Core/Invention)

CPC: E21B43/129 F16H7/0836 F16H2007/0806 F16H2007/0859 Y10S417/902 F04B47/08 F04B47/04

European class: E21B43/12B12 F04B47/04 F04B47/08 F16H7/08D3 R16H7/08A2 R16H7/08R4

US class: 166/108 166/108S 166/369 166/68 166/68P 166/68S 417/405 417/53 417/902

Classification Explorer

Cited documents: US7165952 BB, US6648335 BA, US6623252 BB, US6601651 BB, US6454010 BA, US6298917 BA, US5794697 A, US5611397 A, US5494102 A, US5431228 A, US5343945 A, US5222867 A, US5191911 A, US5188517 A, US5104296 A, US5069602 A, US4863091 A, US4778355 A, US4706747 A, US4553910 A, US4476923 A, US4462763 A, US4405291 A, US4403919 A, US4386654 A, US4383803 A, US4372389 A, US4366654 A, US4214854 A, US3472170 A, US2948224 A, US2853016 A, US2751144 A, US2371704 A, US2361195 A, US2162748 A, US2007286745 AA, US2006213666 AA, US2006213247 AA, US2006127226 AA, US2006060358 AA, US2006000816 AA, US2006000616 AA, US2004256109 AA, US2003196797 AA, US2002134554 AA, US1851801 A, US1573584 A,

Forward Citations: US9643250, US9643144, US9631138, US9617838, US9605508, US9347119, US9284812, US9267347, US9261091, US9243475, US9227243, US9187990, US9139928, US9133695, US9127515, US9115710, US9109429, US9109269, US9101978, US9090956, US9090955, US9080098, US9079246, US9068428, US9057242, US9033055, US9029761, US9022107, US8932030, US8783365, US8776884, US8714268, US8631876, US8573295, US8535017, US8454325, US8425651, US8424610, US8413690, US8327931, US7832077, US7813729,

US7789131, US2014158876, US2013243613, US2013022480, US2012234538, US2011120586, US2010051282, US2008219869, US2008149325, US2008087437, US2008064332, US2007272416, US2007253843, US2006213247, US2006127226, CN105913476, CN103160261, CN103160261,

Abstract:
Source: US2006000616A An improved hydraulic downhole oil recovery system that incorporates an above ground unit and a submersible, reciprocating downhole pump unit. Water−based fluid, rather than hydraulic fluid, is responsible for actuating the reciprocating downhole pump unit. The water−based fluid is transferred through the system using coil, coil tubing. The system further relies upon coil exterior production tubing to provide exceptional advantage in deviated oil wells.

0) US2012022550A – FILTER APPARATUSES AND METHODS OF USING SAME

266) Family number: 44965981 (US2012022550A) © PatBase

Title: FILTER APPARATUSES AND METHODS OF USING SAME

Priority: IL20090197800 20090325 US20110260382 20110926 WO2010IL00258 20100325 US20160140505 20160428

Family:

Publication number	Publication date	Application number	Application date
EP2410943 A1	20120201	EP20100719120	20100325
IL197800 A0	20091224	IL20090197800	20090325
JP2012521258 T2	20120913	JP20120501502T	20100325
US2012022550 AA	20120126	US20100260382	20100325
US2016317167 AA	20161103	US20160140505	20160428
US9427299 BB	20160830	US20100260382	20100325
WO10109467 A1	20100930	WO2010IL00258	20100325
WO10109467 A8	20101209	WO2010IL00258	20100325

Probable Assignee: LITHIBLOCK LTD

Assignee(s):(std)**:** BEN MUVHAR SHMUEL ; LITHIBLOCK LTD ; SHMUEL BEN MUVHAR

Inventor(s):(std)**:** BEN MUVHAR SHMUEL

Inventor(s): SHMUEL BEN MUVHAR

Agent(s): HOWARD PAUL NICHOLAS; G E EHRLICH 1995 LTD 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 TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): A61B17/12 A61B17/22 A61B17/221 A61F2/00 A61F2/01 A61F2/02 A61F2/04 (Advanced/Invention) ; A61F2/00 A61F2/02 A61F2/04 (Advanced/Non–invention)

CPC: A61F2002/018 A61F2002/041 A61F2002/048 A61F2210/0004 A61F2230/0006 A61F2230/008 A61F2230/0091 A61F2250/0067 A61B17/221 A61B2017/2212 A61F2/01 A61F2002/016

European class: A61F2/01 K61F2/04A K61F2/04W K61F210/00A K61F250/00W5

US class: 1/1 606/127 606/127P

Classification Explorer

Cited documents: WO11143137 A2, WO10109467 A1, WO06131930 A2, WO04012587 A2, WO02071977 A2, US7524319 BB, US6623507 BB, US6616680 BA, US6342059 BA, US5925062 A, US2009254172 AA, US2008140216 AA, US2008033457 AA, US2007239199 AA, US2007112372 AA, US2007083230 AA, US2004087997 AA, US2003163204 AA, US2003078465 AA, US2003057156 AA, US2003040771 AA, US2002193825 AA, US2002099437 AA, JP2005534429 T2, JP2005508201 T2, CN203424992 A,

Forward Citations: WO16067286, US9427299, JP2013537434,

Abstract:
Source: US2012022550A A filter device for implantation in a body lumen, comprising: a blocking section for filtering structures greater than a specified minimum size; and, an anchoring section for preventing unwanted movement of the filter device, wherein the filter device does not apply expansive radial force on a wall of the body lumen.

267) Family number: 47880401 (EP2263738A2) © PatBase

Title: IMPLANTABLE DEVICES FOR DELIVERING DRUGS AND OTHER SUBSTANCES TO TREAT SINUSITIS AND OTHER DISORDERS

Priority: EP20050773189 20050718 EP20100182961 20050718 US20040912578 20040804 WO2005US25371 20050718

Family:

Publication number	Publication date	Application number	Application date
EP2263738 A2	20101222	EP20100182893	20050718
EP2263738 A3	20111109	EP20100182893	20050718
EP2263738 B1	20130605	EP20100182893	20050718
EP2845621 A2	20150311	EP20140181385	20050718
EP2845621 A3	20150408	EP20140181385	20050718
ES2427979 T3	20131105	ES20050773189T	20050718

Probable Assignee: ACCLARENT INC

Assignee(s):(std)**:** ACCLARENT INC

Inventor(s):(std)**:** WALKE AMRISH JAYPRAKASH ; VRANY JULIA D ; MAKOWER JOSHUA ; CHANG JOHN Y

Agent(s): INSTONE ALICIA CLAIRE; CARPMAELS AND RANSFORD; TUNSTALL CHRISTOPHER STEPHEN; IZQUIERDO JOSE

Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

International class (IPC 8–9)**:** A61B1/00 A61B17/16 A61B17/22 A61B17/24 A61B17/3207 A61B17/34 A61B19/00 A61B5/00 A61B5/06 A61F13/00 A61F2/18 A61F2/82 A61F5/08 A61K9/22 A61M1/00 A61M25/00 A61M25/10 A61M29/00 A61M31/00 (Advanced/Invention); A61B17/22 A61B17/34 A61F2/00 A61F2/18 A61F2/82 A61M25/00 (Advanced/Non–invention)

CPC: A61B17/24 A61B17/3478 A61B2017/22061 A61F2/18 A61F2/82 A61F2250/0039 A61M25/0029 A61M25/007 A61M2025/0037 A61M2025/1052 A61B5/06 A61B5/064 A61B5/411 A61M31/002 A61M25/10 A61B17/320725 A61B17/320758 A61B17/320783 A61F2002/825 A61M2025/105 A61B34/20

European class: A61B1/00P8 A61B17/24 A61B5/06 A61B5/06C3 A61B5/41B A61M25/10 K61B17/22H5 K61B17/3207E K61B17/3207R K61B17/3207S K61B17/34Q K61B19/52H12 K61F2/18 K61F2/82 K61F250/00N19 K61M25/00R1M16 K61M25/00R1M4 K61M25/00T10C K61M25/10Z4

Classification Explorer

Cited documents: WO9222350 A1, WO9215286 A1, WO05117755 A2, WO05018730 A1, WO04082525 A2, WO02062269 A1, US82991704, US6716813 BB, US6543452 BA, US6398758 BA, US6386197 BA, US6340360 BA, US6200257 BA, US6007516 A, US5985307 A, US5827224 A, US5512055 A, US5286254 A, US5236422 A, US4851228 A, US4645495 A, US4639244 A, US3948254 A, US3894538 A, US2004116958 AA, US2003185872 AA, US2003120339 AA, US2002077852 AA, EP0624349 A1, EP05773189, EP0427852 A1,

Forward Citations: RU2600852,

Abstract:
Source: EP2263738A2 Implantable devices for delivering drugs and other substances to locations within the body of a human or animal subject to treat or diagnose sinusitis and a variety of other disorders. The application includes implantable substance delivery devices that comprise reservoirs and barriers that control the rate at which substances pass out of the reservoirs. The delivery devices may be advanced into the body using guidewires, catheters, ports, introducers and other access apparatus. In some embodiments the delivery devices may be loaded with one or more desired substance before their introduction into the body. In other embodiments the delivery devices are loaded and/or reloaded with a desired substance after the delivery device has been introduced into the body.

268) Family number: 57698091 (US2017071702A) © PatBase

Title: DENTAL IMPLANT FOR BONE COLLECTION AND DISTRIBUTION

Priority: IL20140230833 20140205 US20150100863P 20150107 WO2015IL50139 20150205 US20150116948 20150205

Family:

Publication number	Publication date	Application number	Application date
CN106456289 A	20170222	CN201580018390	20150205
EP3102145 A1	20161214	EP20150746722	20150205
IL230833 A0	20140930	IL20140230833	20140205
JP2017507707 T2	20170323	JP20160550766T	20150205
KR20160124790 A	20161028	KR20167024410	20150205
US2017071702 AA	20170316	US20150116948	20150205
WO15118543 A1	20150813	WO2015IL50139	20150205

Probable Assignee: OPHIR FROMOVICH

Assignee(s):(std)**:** FROMOVICH OPHIR ; OPHIR FROMOVICH

Inventor(s):(std)**:** FROMOVICH ; FROMOVICH OPHIR

Agent(s): MODIANO GABRIELLA DIANA; SAMEJIMA MUTSUMI; HUKUMASA MITUO; SOLOMON OZ

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

International class (IPC 8–9): A61C3/00 A61C8/00 A61F (Advanced/Invention); A61F (Subclass/Invention)

CPC: A61C8/0059 A61C8/0092 A61C8/0022 A61C8/0056 A61C8/006 A61C8/0068 A61C8/0069 A61C8/0074 A61C8/0075 A61C8/0078 A61C8/008 A61C8/0089

Classification Explorer

Cited documents: WO14108906 A1, WO13186765 A1, WO13157756 A1, WO13004703 A1, WO09075459 A1, US6227857 BA, US5782918 A, US5782636 A, US2013022942 AA, US2012214132 AA, US2012178049 AA, US2011250564 AA, US2011123953 AA, US2011070558 AA, US2011033826 AA, US2010009316 AA, US2008286720 AA, US2008261175 AA,

DE202005004909 U1

DE102006007541 A1

CA2817860 AA,

Abstract:
Source: US2017071702A The present invention relates to endosseous implants and in particular, to screw form dental implants for implanting within bone. The bone implant is configured to be a self–drilling bone implant that is adept at condensing, collecting and distributing bone along all of the implant's surface and within the implantation site, to significantly increase the bone implant contact surface. The implant is configured to have a coronal portion and a body portion that are continuous with one another. The coronal portion is configured to have a smaller overall diameter than the overall diameter of said body portion. The body portion is fit with threading that facilitates the self–drilling and bone collection properties when the implant is rotates in both the clockwise and counterclockwise directions.

0) WO16105214A3 – WOUND RETRACTOR AND DIFFUSER ECARTEUR DE PLAIE...

269) Family number: 62803432 (WO16105214A3) © PatBase

Title: WOUND RETRACTOR AND DIFFUSER

Priority: US20140096469P 20141223

Family:

Publication number	Publication date	Application number	Application date
WO16105214 A2	20160630	WO2015NZ50219	20151223
WO16105214 A3	20160825	WO2015NZ50219	20151223

Probable Assignee: FISHER AND PAYKEL HEALTHCARE LTD

Assignee(s):(std)**:** FISHER AND PAYKEL HEALTHCARE LTD ; IP BERNARD TSZ LUN

Inventor(s):(std)**:** BLACKHURST MICHAEL JOSEPH ; FOGARIN JESSICA RACHEL ; GHALIB ALI GHALIB ABDUL RAHMAN ; GORDON JAMES ALEXANDER ; HARWOOD JONATHAN DAVID ; IP BERNARD TSZ LUN ; MCFEDRIES JONATHAN STUART ; ROBERTSON NATALIE MAY ; STREVENS JOSEPH PATRICK WALTER

Agent(s): BALDWINS INTELLECTUAL PROPERTY

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 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

International class (IPC 8–9): A61B1/32 A61B17/02 A61B90/00 A61M13/00 (Advanced/Invention)

CPC: A61B17/02 A61B2017/0212 A61B2090/401 A61M13/003 A61B2017/3437 A61B2017/3486 A61B2017/349 A61B2017/3492 A61B2217/005 A61M16/16 A61B17/3423 A61B17/3474

Classification Explorer

Cited documents: US6733479 BA, US5849005 A, US5842971 A, US5407433 A, US2014343366 AA, US2013178709 AA, US2010312066 AA, US2010241061 AA, US2009118587 AA, US2006247498 AA, US2002022762 AA,

DE102013101229 A1

Abstract:
A diffuser for use with a wound retractor and configured to deliver gases includes an interface tube for connecting to a gases supply and a diffuser interface positioned at a proximal end of the interface tube, the diffuser interface configured for delivering gases received from the gases supply through the interface tube, and the diffuser interface comprising a diffusion mechanism configured to deliver gases in a diffusion direction. A wound retractor with an integrated diffuser is also disclosed. The wound retractor includes an upper ring, a lower ring, a sleeve extending between and connecting the upper ring to the lower ring, and an integrated diffuser interface having a gases inlet and a diffusion mechanism.

0) WO8604976A1 – AUTOMATICALLY CONTROLLED APPARATUS FOR DRAINING...

270) Family number: 2205823 (WO8604976A1) © PatBase

Title: AUTOMATICALLY CONTROLLED APPARATUS FOR DRAINING CONDENSATE FROM PRESSURIZED GAS RESERVOIRS

Priority: EP19860901479 19860225 EP19860901479 19860225 WO1986IT00015 19860225 IT19850047732 19850226

Family:

Publication number	Publication date	Application number	Application date
AT58784 E	19901215	AT19860901479T	19860225
AU198655426 A1	19860910	AU19860055426	19860225
DE3675863 D1	19910110	DE19863675863	19860225
EP0215836 A1	19870401	EP19860901479	19860225
EP0215836 B1	19901128	EP19860901479	19860225
IT1182711 A	19871005	IT19850047732	19850226
IT8547732 A0	19850226	IT19850047732	19850226
JP63500733 T2	19880317	JP19860501434	19860225
WO8604976 A1	19860828	WO1986IT00015	19860225

Probable Assignee: MIULLI A

Assignee(s):(std)**:** MIULLI A ; MIULLI ALDO

Assignee(s): MIULLI ALDO ROM ROMA IT

Inventor(s):(std)**:** ALDO MIULLI ; ALDO MUILLI ; MIULLI ALDO

Inventor(s): MIULLI ALDO ROM ROMA IT ; MUILLI ALDO

Designated states: AT AU BE BR CH DE DK FR GB JP LI LU MC NL NO SE US

International class (IPC 8–9): B60T17/00 F16T1/00 F16T1/14 (Advanced/Invention); B60T17/00 F16T1/00 (Core/Invention)

International class (IPC 1–7): B60T17/00 F16T1/00

CPC: B60T17/004 F16T1/00 F16T1/14

European class: B60T17/00A1 F16T1/00 F16T1/14

Classification Explorer

Cited documents: US3282293 A, GB690862 A, GB1063362 A, FR2082631 A5, DE1580111 A1,

Abstract:
Automatically controlled apparatus for the condensate drainage from the pressurized gas reservoirs (11A–11F), particularly from the air receivers of the industrial vehicles, including a pneumatic member (40) designed for being automatically operated whenever the motor of the vehicle is stopped, a control system (30–35) connected to said pneumatic member, and a valve device (10A–10F) provided for each reservoir (11A–11F) from which the condensate has to be drained, each valve device (10A–10F) being operated by said control system in order to pass from the closed to the opened position and viceversa whenever the pneumatic member is operated, and including: a finned (262) cylindrical body (210); a frustum–conical drainage valve member (223); a valve stem (216) connected to and controlling said drainage valve member; and a cylindrical spline head (224) integral with the frustum–conical drainage valve member and promoting a smooth and noiseless operation of the valve device.

0) ES2190351A – FILLING UNIT FOR TANKS WITH PREADJUSTABLE LEVEL...

271) Family number: 28856564 (ES2190351A) © PatBase

Title: Filling unit for tanks with preadjustable level.

Priority: ES20010001864 20010808

Family:

Publication number	Publication date	Application number	Application date
ES2190351 AA	20030716	ES20010001864	20010808
ES2190351 BA	20040501	ES20010001864	20010808

Probable Assignee: IDROLS SA

Assignee(s):(std)**:** IDROLS SA

Assignee(s): IDROLS S A

Inventor(s):(std)**:** GUAITA DE LILA ERNESTO

International class (IPC 8–9)**:** E03D1/32 F16K31/34 (Advanced/Invention); E03D1/30 F16K31/18 (Core/Invention)

International class (IPC 1–7)**:** E03D1/32 F16K31/34

Classification Explorer

Cited documents: US4027693 A, FR2724958 A1, FR2367237 A1, ES2024823 AF, ES2024823 A2,

Abstract:
Consisting of a filling unit with a water inlet, a valve and a floating closure device. The valve is controlled by the float and has a stem that can be closed by the float. Inside there are two chambers, one to let water in and the second for the water to pass to the filler pipe of the tank. Closing of the stem by pivoting due to the float, causes reduced pressure in part of chamber 1 which opposes by the pressure of the mains supply a flexible annular body which expands, causing the valve to close completely.For application in the manufacture of valves for filling tanks or reservoirs.

272) Family number: 49012593 (US7957061B) © PatBase

Title: DEVICE WITH ARRAY OF TILTING MICROCOLUMNS TO DISPLAY THREE−DIMENSIONAL IMAGES

Priority: US20080011200P 20080116 US20080317856 20081230

Family:

Publication number	Publication date	Application number	Application date
US7957061 BA	20110607	US20080317856	20081230

Probable Assignee: HOLOVISIONS LLC

Assignee(s):(std)**:** HOLOVISIONS LLC

Assignee(s): OSTENDO TECHNOLOGIES INC

Inventor(s):(std)**:** CONNOR ROBERT A

International class (IPC 8–9)**:** G02B27/22 (Advanced/Invention)

CPC: G02B17/002 G02B17/004 G02B27/2285 H04N13/0402

European class: G02B17/00A G02B17/00C G02B27/22V2 H04N13/04A

US class: 348/59 359/462 359/463 359/464

Classification Explorer

Cited documents: US7297474 BB, US7167313 BB, US7123287 BB, US6929369 BB, US6798390 BA, US6795241 BA, US6791512 BA, US6496218 BB, US6437920 BA, US6344837 BA, US6329963 BA, US6259450 BA, US6201565 BA, US6014259 A, US5991073 A, US5986811 A, US5900982 A, US5790086 A, US5760849 A, US5602679 A, US5300942 A, US4692878 A, US3199116 A, US2008273242 AA, US2008204871 AA, US2008192111 AA, US2008158671 AA, US2008117289 AA, US2008007511 AA, US2007097019 AA, US2007058258 AA, US2007058127 AA, US2007035829 AA, US2006244918 AA, US2006158729 AA, US2005285936 AA, US2005270645 AA, US2005248972 AA, US2005111100 AA,

Forward Citations: WO14144989, US9582927, US9261262, US9195053, US8582824, US2010329538,

Abstract:
Source: US7957061B This invention is a device for displaying three−dimensional images using an array of tilting microcolumns. It can create high−resolution, large−scale, moving, three−dimensional images that can be viewed by people in different locations, with full parallax, without special eyewear. Unlike currently available methods, this invention: does not require special eyewear, works for multiple viewers, provides parallax in all directions, does not have a very restrictive viewing zone, does not produce only transparent images, does not require coherent light, is scalable to large displays, does not require liquid movement to adjust lens shape, and does not require complex systems to individually control large numbers of lenses.

273) Family number: 18870552 (GB442436A) © PatBase

Title: Improvements in or relating to electron discharge tubes, indirectly heated cathodes therefor, and methods of making same

Priority: GB19340020018 19340707

Family:

Publication number	Publication date	Application number	Application date
GB442436 A	19360207	GB19340020018	19340707

Probable Assignee: LEON LADISLAS DE KRAMOLIN

Assignee(s):(std)**:** LEON LADISLAS DE KRAMOLIN

International class (IPC 8–9): H01J9/04 (Advanced/Invention); H01J9/04 (Core/Invention)

International class (IPC 1–7): H01J19/16

CPC: H01J9/04

European class: H01J9/04

Classification Explorer

Forward Citations: DE962819, DE757106,

Abstract:
Source: GB442436A 20018. [Class 39 (i)] An indirectly heated cathode which is produced by the distillation of a vaporizable metal–for example by the azide or thermite process–is " formed " after the metal has been deposited on the body by a heating current flowing through the body, so that the normal heating means are not overloaded during the forming. In one construction the cathode body d, Fig. 1, comprises a spiral with spaces between the turns; leads x y allow a forming current to flow so that the normal heating filament a need not be used. During normal running the leads x, y may be connected to ensure an equipotential condition, where the cathode body is a tube the leads x, y are connected to the ends ; the forming current may be supplied by inducton to a coil so disposed within the envelope that the electrodes are not effected by this inductive effect and the coil may be of copper to be of greater conductivity than the platinum or nickel body. In other constructions the cathode d, Fig. 5a, and the normal heater a are at the foci of an elliptical reflector c, which as shown is a control electrode. The cathode is connected through a heat–frangible piece f to a wire forming the support for the grid, so that the forming current may be supplied independently of the heater a. At the end of the forming process a high current is sent through the body to fuse the piece f. As shown the anode b is in plate form not to obstruct the normal heating effect from the heater a. The reflector may be the anode or anode screen or independent reflectors may be used ; the magnesium gettering coating on the envelope may be used as the reflector or the latter may be outside the envelope and may be a coating thereon. These reflectors may be of copper or silver, or of nickel or molybdenum coated with copper or silver. Stiffening plates may be provided for the electrodes and reflectors or steatite c. spacers may position the cathode and heater at the foci of the reflectors. The magnetic effect of the heater may be reduced by parallel conductors or screens ; if the heater is raised to emission temperatures it is given a positive bias. The heater is given greater bulk than the cathode by carbon or metal coating, the latter being subsequently oxidized for insulation effect; or wire may be wound on the heater in different amounts along its length so as to be thicker near the middle, to obtain uniformity of heating of the heater. The heater may be made entirely of ceramic material, i.e. a silite rod or it may be of carbon. As applied to valves of the kind described in Specification 415,079 which contain two systems, in one construction the heater a, Fig. 7, for the lower cathode d<1> is prolonged and used to heat the upper cathode d ; the forming device is the same as described with reference to Fig. 5a. The cathode d of the upper system supports the lower anode b <1> ; the upper system is to work at saturation and acts as a high alternating current resistance. The heater a is connected to the anode b and through a resistance r to the grid c ; the upper control grid may serve as the heater. In a modification of this construction the heater a, Fig. 18, is in the form of a resistance wire and may act as the anode for the upper system ; the control electrode c acts as the elliptic reflector and is supplied with a voltage at 180 to anode voltage of the tube. The heater a may be of the oxides of aluminium, zirconium or magnesium. In other constructions the heater a may be of spiral form within which the cathode d is situated. In further constructions two cathodes d<1>, d<2>, Fig. 9a with surrounding grids and it may be screens are placed at the foci of one or within two reflectors, which may also be electrodes ; one cathode acts as the heater for the other, and " forming " means are provided for each.

0) GB592263A – AN IMPROVED ELECTRON DISCHARGE DEVICE AND METHO...

274) Family number: 20904403 (GB592263A) © PatBase

Title: An improved electron discharge device and method of manufacturing the grid electrode thereof

Family:

Publication number	Publication date	Application number	Application date
GB592263 A	19470912	GB19440000710	19440113

Probable Assignee: WESTERN ELECTRIC CO

Assignee(s):(std)**:** WESTERN ELECTRIC CO

Assignee(s): WESTERN ELECTRIC CO INC

International class (IPC 8–9)**:** H01J19/00 H01J21/36 (Advanced/Invention)

International class (IPC 1–7)**:** H01J25/00

CPC: H01J19/00 H01J21/36 H01J2893/0024

European class: H01J19/00 H01J21/36 T01J893/00C61G4C

Classification Explorer

Abstract:
Source: GB592263A 592,263. Discharge apparatus. WESTERN ELECTRIC CO., Inc. Jan. 13, 1944, No. 710. Convention date, Feb. 12, 1942. [Class 39 (i)] [Also in Group XXII] A discharge tube has a flat perforated grid on a supporting ring in engagement with the metal envelope, this ring thereby dividing the envelope into two compartments, one containing the anode and the other the cathode, both these electrodes being flat and parallel with the grid. In the form shown, a flat grid 42 composed of parallel wires 43 is supported on ring 41 carried by ring 40 between the flat anode 25 and the cathode surface 35 formed on the top cover of a nickel tube 33 containing a helix of aluminium oxide coated tungsten wire, this tube being supported from an outer magnetic shield 36 by three tangentially arranged resilient fingers 38. The cathode assembly is supported by flange 39 secured to the shield 36 and the lead 31. A similar grid 44 functioning as a screen is carried by a flanged cylinder 46 secured to leads 21, 22. The casing 15 is of iron or copper and the inter–electrode spacing is specified. The grid 42 may be formed by welding parallel fine wires to a ring 47 placed in a die block 53, Fig. 6, having an undercut recess 54 receiving a ram 55 which distorts ring 47 to the oval form shown (exaggerated) in Fig. 7. Only the part within the dotted line, Fig. 7, is required as the active grid, the rest being masked by supporting ring 41 clamped to the grid in a press, the two then being welded together.

0) US2002013592A – DEVICE FOR CLOSING AN ANASTOMOSIS BETWEEN THE A...

275) Family number: 30551141 (US2002013592A) © PatBase

Title: DEVICE FOR CLOSING AN ANASTOMOSIS BETWEEN THE AORTA AND THE PULMONARY ARTERY

Priority: DE20001035230 20000720 DE20015010381 20010620

Family:

Publication number	Publication date	Application number	Application date
AT332109 E	20060715	AT20010114920T	20010620
DE10035230 A1	20020207	DE20001035230	20000720
DE10035230 B4	20061012	DE20001035230	20000720
DE50110381 D1	20060817	DE20015010381	20010620
EP1174097 A2	20020123	EP20010114920	20010620
EP1174097 A3	20030129	EP20010114920	20010620
EP1174097 B1	20060705	EP20010114920	20010620
US2002013592 AA	20020131	US20010908111	20010718

Probable Assignee: DR OSYPKA GMBH

Assignee(s):(std)**:** OSYPKA GMBH DR

Assignee(s): DR OSYPKA GMBH

Inventor(s):(std)**:** OSYPKA PETER ; OSYPKA PETER DR

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

International class (IPC 8–9): A61B17/00 A61B17/12 A61F2/01 A61F2/02 A61F2/06 A61M25/12 (Advanced/Invention); A61F2/06 (Advanced/Non–invention)

International class (IPC 1–7): A61B17/00 A61B17/08 A61F2/01 A61M25/12

CPC: A61F2230/0006 A61F2230/0008 A61F2230/0019 A61F2230/005 A61F2230/0067 A61F2230/0086 A61F2230/0093 A61B17/12131 A61B17/12022 A61B17/12109 A61B17/12172 A61F2/06 A61F2002/016

European class: A61B17/12P A61B17/12P5B A61B17/12P7 A61B17/12P7W1 A61F2/01 K61F2/01M K61F2/06

US class: 606/158 606/158P

Classification Explorer

Cited documents: WO9528885 A1, US5192301 A, EP0698373 A2, EP0556564 A2, DE69514885 T2, DE4222291 C1, DE3116462 A1, DE19607451 A1, DE19508805 A1, DD233303 Z, DD233303 A1,

Forward Citations: US7955354, US2011224722, US2007112381, DE102010010483, DE102005053906,

Abstract:
Source: US2002013592A A device (1) for closing a canal–shaped anastomosis (2), between the aorta (3) and the pulmonary artery (4), which remained open after the birth of a person (6). It is formed by a closing element (8) that can be inserted using a catheter (7) and that has two seals (10) and (11) spaced apart from each other and connected via an elastic tension element (9). The two seals have a certain elasticity and in the usage position, cover or fill up the two mouths or ends of the anastomosis (2), located between the aorta (3) and the pulmonary artery (4). The seals (10) and (11) can be folded, so that they on the one hand fit into the catheter (7) and on the other hand, can be introduced through the anastomosis (2) and brought to the respective application position. Using an eyelet (16) that is arranged in the area of the entrance into an inner longitudinal cavity (12) of the device and a tension thread (17) that passes through it, the seating of the closing element can be corrected especially through altematingly activating the thread (17) and an obturator or tool.

0) EP0061677A2 – BOTTLE CLOSURE. FLASCHENVERSCHLIESSER. FERMET...

276) Family number: 30893995 (EP0061677A2) © PatBase

Title: Bottle closure.

Priority: DE19810009172U 19810328 EP19820102311 19820320 DE19823276529 19820320

Family:

Publication number	Publication date	Application number	Application date
AT27693 E	19870615	AT19820102311T	19820320
DE3276529 D1	19870716	DE19823276529	19820320
DE8109172 U1	19820624	DE19810009172U	19810328
EP0061677 A2	19821006	EP19820102311	19820320
EP0061677 A3	19830504	EP19820102311	19820320
EP0061677 B1	19870610	EP19820102311	19820320

Probable Assignee: USBECK AND SOEHNE MONOPOLWERK

Assignee(s):(std)**:** MONOPOLWERK USBECK AND SOEHNE GM ; MONOPOLWERK USBECK AND SOHNE GMB ; USBECK AND SOEHNE MONOPOLWERK

Assignee(s): MONOPOLWERK USBECK AND SOHNE GMBH AND CO ; MONOPOLWERK USBECK AND SOEHNE GMBH AND CO ; MONOPOLWERK USBECK AND SOEHNE GMBH AND CO 3550 MAR ; MONOPOLWERK USBECK AND SOEHNE GMBH AND CO 3550 MARBURG DE

Inventor(s):(std)**:** USBECK WILHELM

Designated states: AT DE FR GB IT NL

International class(IPC 8–9)**:** B65D45/22 (Advanced/Invention); B65D45/00 (Core/Invention)

International class(IPC 1–7)**:** B65D45/22 B67B3/22 B67B7/12

CPC: B65D45/22

European class: B65D45/22

Classification Explorer

Cited documents: US3516563 A, FR832589 A, FR1025460 A, DE2726428 A1, DE1896897 U,

Abstract:
1. Bottle closure (10) having a hollow cylindrical support body (12) in which a compression spring (38) is lodged that bears on a sheet gasket, further having two double–armed tong–like legs (18) articulated to the support body, each of which legs comprises near its lower end (22) inwardly directed lugs (26), noses or the like which are compressed by a spring (28) for receiving a bottle neck bead (W), characterized in that for limiting the spreading range of the tong–like legs (18), there is at least one limiting element attacking the outside thereof, viz. either (Fig. 1) a press–on cap (30) that extends with a radial gap over the upper ends (20) of the tong–like legs, the press–on cap (30) being provided with a cylindrical shaft (34) arranged between the tong–like legs (18), or a limiting spring (42) that engages the outer lower portions thereof.

277) Family number: 5001026 (US5108413A) © PatBase

Title: DILATOR FOR OPENING THE LUMEN OF A TUBULAR ORGAN

Priority: US19900630874 19901220

Family:

Publication number	Publication date	Application number	Application date
US5108413 A	19920428	US19900630874	19901220

Probable Assignee: MOYERS ROBERT E

Assignee(s):(std)**:** MOYERS ROBERT E

Inventor(s):(std)**:** MOYERS ROBERT E

International class (IPC 8–9)**:** A61M29/00 (Advanced/Invention); A61M29/00 (Core/Invention)

International class (IPC 1–7)**:** A61M29/00

CPC: A61M29/00 A61B2017/22094

European class: A61M29/00

US class: 606/191

Classification Explorer

Cited documents: US5019096 A, US4941871 A, US4729766 A, US4657553 A, US4654033 A, US4619641 A, US4496350 A, US4417888 A, US4405320 A, US4160448 A,

Forward Citations: WO9925530, WO16210167, WO06031619, WO06031619, WO04012785, US9241808, US9241735, US9131849, US8967147, US8764704, US8728369, US8597277, US8348892, US8092481, US8052715, US7892203, US7056294, US5993461, US5817122, US5401244, US5360406, US5342383, US2011159758, US2011156314, US2011155137, US2007129753, US2007021768, US2006259061, US2006253102, US2006180505, US2006135981, US2006135962, US2006129227, US2006052750, US2006041270, US2006009715, US2005035031, US2003042176, US2002169377,

Abstract:
Source: US5108413A A dilator is disclosed for use in opening the lumen of a tubular organ utilizing a expansion member made of a material having a negative Poisson ratio such as polytetrafluorethylene. The negative Poisson ratio of the expansion member enables the member, when stretched, to expand radially outwardly rather than thinning in a radial direction to perform useful work in opening the lumen in a tubular organ such as in performing coronary angioplasty.

278) Family number: 64180212 (WO16189485A1) © PatBase

Title: AN APPARATUS FOR TRANSFER OF PHARMACEUTICAL ARTICLES FROM A COUNTING MACHINE TO INTERNALLY OF CONTINUOUSLY ADVANCING CONTAINERS

Priority: IT2015UB01128 20150527

Family:

Publication number	Publication date	Application number	Application date
WO16189485 A1	20161201	WO2016IB53082	20160526

Probable Assignee: MARCHESINI GROUP SPA

Assignee(s):(std)**:** MARCHESINI GROUP SPA

Inventor(s):(std)**:** MONTI GIUSEPPE

Agent(s): DALLOLIO GIANCARLO 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 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

International class (IPC 8–9): B65B39/14 B65B5/10 B65B57/20 (Advanced/Invention)

CPC: B65B5/103 B65B39/145 B65B57/20

Classification Explorer

Cited documents: WO11110925 A1, WO06016268 A1, EP2671807 A1, EP2128027 A1,

Abstract:
The apparatus (D) for transferring pharmaceutical articles from a counting machine (MC) to internally of containers (C) advancing continuously along a conveyor line (L) comprises a first series of tubular elements (T1) and at least a second series of tubular elements (T2) such a to be able to freely receive the pharmaceutical articles internally thereof. The apparatus (D) comprises a first looped movement organ (1) for moving the first series of tubular elements (T1) and at least a second looped movement organ (2) for moving the second series of tubular elements (T2), activatable independently of one another, in both a stepped fashion and continuously, and having a shape such as each to define a looped movement pathway (PC) for the tubular elements (T1, T2) comprising a first straight movement portion (R1) below the counting machine (MC) so that the tubular elements (T1, T2) can be halted for receiving therefrom the counted articles, and a second straight portion (R2) above the conveyor line (L) of the containers (C), so that the tubular elements (T1, T2) can be moved at the same velocity above the containers (C) and release the articles therein.

0) FR2362287A – POMPE A VIDE A IMPULSEUR LIQUIDE, NOTAMMENT POU...

279) Family number: 3571960 (FR2362287A) © PatBase

Title: POMPE A VIDE A IMPULSEUR LIQUIDE, NOTAMMENT POUR CONDENSEUR DE CENTRALE THERMIQUE VACUUM PUMP FOR POWER STATION UNCONDENSABLE PRODS. – HAS LAMINAR FLOW CENTRIFUGALLY DISCHARGED HORIZONTALLY INTO ANNULAR NOZZLES OF AIR AND WATER MIX

Priority: FR19760024935 19760817

Family:

Publication number	Publication date	Application number	Application date
FR2362287 A1	19780317	FR19760024935	19760817
FR2362287 B1	19800314	FR19760024935	19760817

Probable Assignee: ELECTRICITE DE FRANCE

Assignee(s):(std): ELECTRICITE DE FRANCE

Inventor(s):(std): SMITS MARCEL

Inventor(s): MARCEL SMITS

International class (IPC 8–9): F04D17/18 (Advanced/Invention); F04D17/00 (Core/Invention)

International class (IPC 1–7): F01K9/02 F04D17/08 F04D29/18 F28B9/10

CPC: F04D17/18

European class: F04D17/18

Classification Explorer

Abstract:
Source: FR2362287A Pompe a vide a impulseur liquide. Dans le volume d'aspiration 10 tourne un rotor 2, creux avec des ajutages d'ejection 23, 25 a la peripherie et un orifice axial d'entree d'eau 22. Autour du rotor 2 une couronne 3 comporte des canaux de pompage 30 s'etendant de la peripherie interne ou ils sont jointifs, jusqu'a la peripherie externe. La rotation du rotor 2 provoque l'injection dans les canaux 30 de lames d'eau successives qui emprisonnent et entrainent vers la peripherie les gaz presents dans le volume de pompage 10 relie par la bride 13 au recipient a pomper. Application a l'extraction des incondensables des condenseurs de centrales thermiques. The vacuum pump is used for removing the uncondensable products from power station condensers. It operates immersed in a tank and has a horizontally positioned rotor (2). This has a central suction inlet (20) and discharges the air/water mix centrifugally through four side ports (23, 24, 25, 26). The rotor operates inside an annular ring (3) of nozzles, the uncondensables being discharged into these from the ports. The nozzles (30) are approx. tangential and a laminar spiral flow is set up from the inlet (33) to the outlet (34) of the nozzles. The uncondensables are discharged into a compartment for separation of the contained air and passed over baffles.

0) DE368448A – STAUBSICHERES MEHRLADEGEWEHR DUST SAFE MORE CH...

280) Family number: 18173624 (DE368448A) © PatBase

Title: STAUBSICHERES MEHRLADEGEWEHR DUST SAFE MORE CHARGING GUN (Machine translation)

Priority: 19170102 19170102 DE1918P036863 19180629

Family:

Publication number	Publication date	Application number	Application date
DE368448 A	19230202	DE1918P036863D	19180629

Probable Assignee: VIKTOR VON PINDTERSHOFEN

Assignee(s):(std)**:** JULIUS DRACH ; VIKTOR VON PINDTERSHOFEN

International class (IPC 8–9): F41A29/02 F41A3/26 F41A35/02 F41A5/18 (Advanced/Invention); F41A29/00 F41A3/00 F41A35/00 F41A5/00 (Core/Invention)

International class (IPC 1–7): F41C5/00 F41D11/00

CPC: F41A3/26 F41A5/18 F41A29/02 F41A35/02

European class: F41A29/02 F41A3/26 F41A35/02 F41A5/18

Classification Explorer

Abstract:
Source: DE368448A (Claim 1) PATENT–ANspRUecHE: i. Staubsicheres Mehrladegewehr mit selbstbewegtem, aber auch von Hand zu bewegendem Drehkolbenverschluss, dadurch gekennzeichnet, dass bei geschlossenem, und gesperrtem Verschluss (Abb.

Machine translation: Characterized i dust–proof multi–loading rifle with selbstbewegtem, but also by hand to moving rotary shutter, characterized in that in the closed and locked closure (Fig. : (Claim 1) PATENT CLAIMS

0) GB712546A – PRINTING WHEELS HAVING POROUS TYPE MEMBERS

281) Family number: 19344049 (GB712546A) © PatBase

Title: Printing wheels having porous type members

Priority: 19510322

Family:

Publication number	Publication date	Application number	Application date
GB712546 A	19540728	GB19520006802	19520317

Probable Assignee: NCR CO

Assignee(s):(std)**:** NCR CO

Assignee(s): THE NATIONAL CASH REGISTER COMPANY

International class (IPC 8–9): B41F31/22 B41K3/54 (Advanced/Invention); B41F31/00 B41K3/00 (Core/Invention)

International class (IPC 1–7): B41K1/22

CPC: B41F31/22 B41K3/54

European class: B41F31/22 B41K3/54

Classification Explorer

Forward Citations: GB2286999, GB2150497,

Abstract:
Source: GB712546A 712,546. Typewriters c. NATIONAL CASH REGISTER CO. March 17, 1952 [March 22, 1951], No. 6802/52. Class 100 (4) An inking arrangement for a type wheel or wheels comprises an ink containing shaft 25 for feeding ink to capillary channels of the type wheels formed of carbon plates 31, 32 and with a porous type–carrying rim 33, the carbon plates forming an ink–proof seal with the metal shaft and with metal members, e.g. gears 36 and collar 40, located on each side of the type wheels. One end of the shaft 25 is mounted on a stud 22 on a frame plate 21 and the other end is threaded to receive an ink–font 26 mounted through a hole in a plate 20. Radial holes 32a allow the ink to pass to the capillary channels of the type wheels. These channels may be formed as shown in Fig. 2, by a film of metal foil 47 containing cut–out channels 34 and is mounted between the plates 31, 32 by two thin layers of thermo–setting bonding material 46, 48 having similar channels 34 formed therein. The plates 31, 32 are formed from amorphous coke, or lamp black, and graphite powders pressed into shape, sintered into a rigid mass, and then impregnated with wax or resin. On one side of the wheeel is bonded a gear wheel 36 and the other side wears to form a seal with the adjacent gear wheel or end collar 40. The collar 40 urged by a spring 38 effects a pressure contact between the plates 31, 32, a carbon end collar 37, and the gears 36. The spring 38 is covered by an oil–resistant rubber sleeve 41 or a thin metal bellows welded to the collar 40 and ink–font 26. The metal bellows may also serve as the spring 38. In a modification, the capillary channels are formed in one of the carbon plates and attached by adhesive to the other plate. The channels may be radial, spiral or tortuous in shape.

0) GB200620970A – A NOVEL METHOD FOR THE GENERATION OF WATER WITH...

282) Family number: 34050020 (GB200620970A) © PatBase

Title: A novel method for the generation of water with reduced ionic solutes

Priority: GB20060020970 20061021

Family:

Publication number	Publication date	Application number	Application date
GB200620970 A0	20061129	GB20060020970	20061021
GB2442941 A1	20080423	GB20060020970	20061021

Probable Assignee: MONRO PHILIP P

Assignee(s):(std)**:** MONRO PHILIP P ; MONRO PHILIP PETER

Assignee(s): PHILIP PETER MONRO

Inventor(s):(std)**:** MONRO PHILIP PETER

Inventor(s): PHILIP PETER MONRO

International class (IPC 8–9): B01D61/00 C02F1/44 (Advanced/Invention)

CPC: B01D61/025 B01D61/002 B01D61/005 C02F1/445 C02F2103/08 B01D61/00 C02F1/44

European class: B01D61/00B B01D61/00B10 B01D61/02D C02F1/44F M02F103/08

Classification Explorer

Cited documents: WO9939799 A1, WO9323150 A1, WO02060825 A2, JP2002113332 A2, GB2373743 A1, GB2223696 A1,

Forward Citations: WO13148289, US9266065, US9248405, US9039899,

Abstract:
Source: GB200620970A A device comprising one or more proximal and distal chambers separated by a selectively permeable membrane which has a restricted but not absolute restriction of porosity with respect to dissolved solutes. This device is designed to generate a solution with a reduction in the concentration of these solutes distal to this membrane by the processes of forward and/or reverse osmosis. Such devices can further utilize those solutes initially present on the proximal side of the membrane but which have crossed the membrane themselves so that they then act as osmotic drivers and so facilitate the further movement of solutes across the membrane.