

1) Family number: 57887196 (US2015190155A)

Title: CLOT RETRIEVAL SYSTEM

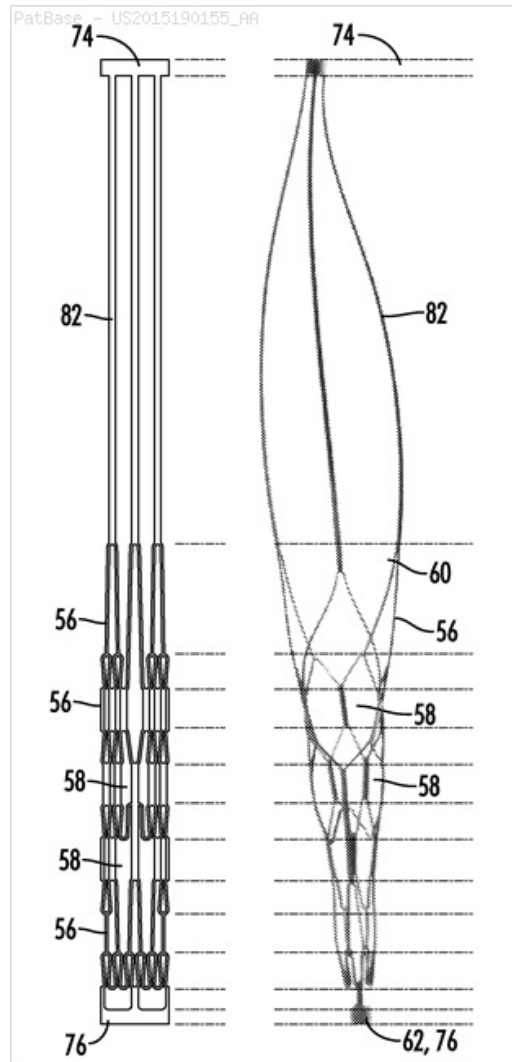
Abstract: The invention relates to systems for removing obstructions and other objects within a blood vessel or other interior lumen of an animal. The system may be deployed in the lumen from a catheter and includes a pull wire having a proximal end and a distal end, and a distal body having a proximal hub, a basket, and a distal hub. In some embodiments, the distal body includes a plurality of proximal strips that form a closeable claw that is used to capture the obstruction. In other embodiments, the basket includes an enlarged opening that allows the object to enter the basket. Optionally, the basket includes x-ray markers adjacent to the enlarged openings to allow the operator to locate the openings, as well as twisting strips that connect the basket to the proximal hub. The present invention also relates to methods of making and using such systems.

Classifications:

International (c 8-9): A61B A61B17/00 A61B17/12 A61B17/22
A61B17/221 A61B17/3207 A61B6/00 A61B6/12 A61B90/00
A61D1/00 A61F2/00 A61F2/01 A61L31/02 A61L31/04 A61M25/00
A61M25/01 A61M29/00 A61M5/00 B21D39/03 B23K1/00 B23K26/38
B23K26/40 B23K31/02 B23P11/00 (Advanced/Invention);
A61B17/00 A61B17/22 A61B90/00 A61M5/00
B23K101/06 (Advanced/Non-invention);
A61B (Subclass/Invention)

CPC: A61D1/005 A61L31/022 A61L31/048 A61B2090/3937
A61B2017/22038 A61B17/1204 A61M25/0147 A61F2230/0023
A61F2230/0058 A61F2230/0067 A61F2250/0023 A61F2250/0039
A61F2/013 A61B2017/22079 A61B2017/2215 A61F2002/011
A61F2002/016 A61M5/007 B23K26/38 B23K26/40 B23K1/0008
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A61B2017/2212 A61B2090/3966 A61B90/39 B23P11/00
A61F2240/001 A61M2025/0042 A61B2017/00778 B23K2101/06
A61B17/12109 A61F2250/0017 B23K2103/14 B23K2103/26
A61B17/00234 A61B2017/00323 A61B17/221 A61B2017/22034
A61F2230/0093 A61B2017/22082 A61B17/12036 A61B2017/00477
A61B221/005 A61B2017/22094 A61B2017/00469 A61B2090/064
A61B17/12172 A61B6/12 A61B2017/12054 A61M25/0108
A61M25/0009 A61B2017/00526

US: 1/1 29/451 600/424 606/114 606/127 606/130 606/159 606/200



Family:

Publication number	Publication date	Application number	Application date
AU2015264434 AA	20170105	AU20150264434	20150518
AU2015264434 BB	20190131	AU20150264434	20150518
AU2018212810 AA	20180802	AU20180212810	20180126
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CA2947201 AA	20161101	CA20152947201	20150518
CA3051584 AA	20190725	CA20183051584	20180126
CN106659513 A	20170510	CN201580037755	20150518
DE602015012840 D1	20180726	DE201560012840T	20150518
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EP3145424 A4	20170503	EP20150796711	20150518
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EP3378419 A1	20180926	EP20180172665	20150518
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IL248776 A1	20180329	IL20150248776	20150518

IL257857 A0	20180430	IL20150257857	20150518
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JP2017515611 T2	20170615	JP20160568975T	20150518
JP6517838 B2	20190522	JP20160568975T	20150518
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KR20170001960 A	20170105	KR20167035511	20150518
KR20170007793 A	20170120	KR20167034879	20150518
MX2016014437 A1	20170406	MX20160014437	20150518
PH2016502299 A	20170213	PH20160502299	20161117
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SG11201609354S A1	20161229	SG20161109354	20150518
US2015190155 AA	20150709	US20140558705	20141202
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US2016271360 AA	20160922	US20160158137	20160518
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US2017150979 AA	20170601	US20170417505	20170127
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US2017265876 AA	20170921	US20170610209	20170531
US2017265877 AA	20170921	US20170611762	20170601
US2017290600 AA	20171012	US20170629703	20170621
US2017340341 AA	20171130	US20170680021	20170817
US2018008295 AA	20180111	US20170710648	20170920
US2018116685 AA	20180503	US20170852285	20171222
US2018132874 AA	20180517	US20170853709	20171223
US2018153567 AA	20180607	US20180880936	20180126
US2018271547 AA	20180927	US20180947955	20180409
US2018271548 AA	20180927	US20180995997	20180601
US2018296235 AA	20181018	US20180995901	20180601
US2019110805 AA	20190418	US20180215841	20181211
US2019133619 AA	20190509	US20190241616	20190107
US2019239909 AA	20190808	US20190385862	20190416
US8900265 BA	20141202	US20140147491	20140103
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US9566412 BB	20170214	US20160158137	20160518
US9801644 BB	20171031	US20170417505	20170127
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US10357266 BB	20190723	US20150311849	20150518
WO15103547 A1	20150709	WO2015US10178	20150105
WO15179324 A2	20151126	WO2015US31447	20150518
WO15179324 A3	20160114	WO2015US31447	20150518
WO16089451 A1	20160609	WO2015US39830	20150709
WO17201299 A1	20171123	WO2017US33351	20170518
WO18107032 A1	20180614	WO2017US65318	20171208
WO18140702 A1	20180802	WO2018US15406	20180126

Priority:

US20140147491	20140103	US20140994934P	20140518	US20140994919P	20140518
US20140994934P	20140518	US20140558705	20141202	US20140558712	20141202
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US20180215841	20181211	US20190241616	20190107	US20190385862	20190416

Probable Assignee: LEGACY VENTURES LLC

Assignee(s): (std): LEGACY VENTURES LLC ; ULM III ARTHUR JOHN ; ULM MATTHEW

Assignee(s): LEGACY VENTURES LLC DBA VESALIO ; LEGACY VENTURES LLC NASHVILLE ; ULM ARTHUR JOHN III

Inventor(s): (std): ULM III ARTHUR JOHN ; ULM ARTHUR JOHN III ; DE LA ROSA MAURICE ; ARTHUR JOHN ULM III ; ULM III ; ULM ARTHUR ; ULM MATTHEW

Inventor(s): ULM III ARTHUR JOHN NASHVILLE

Agent(s): PHILLIPS ORMONDE FITZPATRICK; BERESKIN AND PARR LLP SENCRL SRL; BELL MARK ANDREW; DEHNS; ISERN JORGE; LANNY SETIAWAN MBA MGMT MA LPC MA LMFT; REINHOLD COHN AND

PARTNERS; KAWAMOTO KAZUYA; SHIMIZU HATSUSHI; OSAKABE SUGURU; SHANE V; SHANE;
CORTESI SHANE; CORTESI SHANE V

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 JO JP KE KG KH KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

2) Family number: 51895982 (US2013345739A)

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Title: CLOT RETRIEVAL DEVICE FOR REMOVING OCCLUSIVE CLOT FROM A BLOOD VESSEL

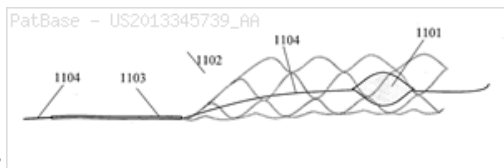
Abstract: A clot retrieval device (9501) for removing occlusive clot from a blood vessel comprises an inner elongate body (9503) and an outer elongate body (9504) at least partially overlying the inner elongate body (9503). The device also comprises an elongate member or shaft (9502) having a proximal end which extends exterior of a patient so that a user can retrieve the stent-basket device and captured clot by retracting the shaft (9502). The outer elongate body (9504) and the inner elongate body (9503) are connected to the distal end of the shaft (9502) and are expandable relative to the shaft (9502) from a collapsed delivery configuration to an expanded deployed configuration. The outer elongate body (9504) is expandable relative to the inner elongate body (9503) to a radial extent which is greater than the radial extent of the inner body (9503) in the deployed configuration.

Classifications:

International (IPC 8-9): A61B17/08 A61B17/14 A61B17/22 A61B17/221 A61B17/3207 A61F2/01 (Advanced/Invention); A61B17/00 A61B17/221 A61B17/3207 (Advanced/Non-invention)
CPC: A61B2017/22034 A61B2017/2212 A61B2017/2215 A61F2/013 A61F2002/016 A61F2002/018 A61F2230/0069 A61F2230/008 A61F2230/0091 A61F2230/0093 A61B2017/22094 A61B17/22031 A61B17/320725 A61B2017/00292 A61B2017/00526 A61B2017/00867 A61F2002/011 A61B17/221

European: A61B17/221 A61F2/01D K61B17/221C K61B17/221P K61B17/22E6 K61B17/3207E

US: 1/1 606/114 606/159 606/200



Family:

Publication number	Publication date	Application number	Application date
EP2683309 A2	20140115	EP20120711696	20120309
US2013345739 AA	20131226	US20120823060	20120309
US2014200608 AA	20140717	US20140158390	20140117
US2016120558 AA	20160505	US20150930167	20151102
US2016192953 AA	20160707	US20150986323	20151231
US2016192954 AA	20160707	US20150986332	20151231
US2016192955 AA	20160707	US20150986357	20151231
US2016192956 AA	20160707	US20150986412	20151231
US2017112515 AA	20170427	US20170399453	20170105
US2018344338 AA	20181206	US20180997335	20180604
US2019239907 AA	20190808	US20190385718	20190416
US8852205 BB	20141007	US20140158390	20140117
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US9642639 BB	20170509	US20150986412	20151231
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US10292722 BB	20190521	US20150986323	20151231
US10299811 BB	20190528	US20150930167	20151102
WO12120490 A2	20120913	WO20121E00011	20120309
WO12120490 A3	20121213	WO20121E00011	20120309

Priority:

US20110450810P	20110309	US20110552130P	20111027	US20110552150P	20111027
US20120823060	20120309	WO20121E00011	20120309	US20130823060	20130313
US20140158390	20140117	US20150930167	20151102	US20150986412	20151231
US20150986323	20151231	US20150986332	20151231	US20150986357	20151231
US20170399453	20170105	US20180997335	20180604	US20190385718	20190416

Probable Assignee: NEURAVI LTD

Assignee(s): (std): BRADY EAMON ; CASEY BRENDAN ; GILVARRY MICHAEL ; GRIFFIN PATRICK ; MCNAMARA JASON ; RAZAVI MAHMOOD ; NEURAVI LTD ; VALE DAVID ; RAZAVI MAHMOOD K

Assignee(s): NEURAVI LIMITED

Inventor(s): (std): RAZAVI MAHMOOD K ; MCNAMARA JASON ; BRADY EAMON ; CASEY BRENDAN ; VALE DAVID ; GILVARRY MICHAEL ; RAZAVI MAHMOOD ; GRIFFIN PATRICK

Agent(s): OBRIEN JOHN AUGUSTINE; BOOKOFF MCANDREWS PLLC; BOOKOFF MCANDRES PLLC; TROUTMAN SANDERS LLP; O BRIEN JOHN 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 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

3) Family number: 57409093 (US2014371779A)

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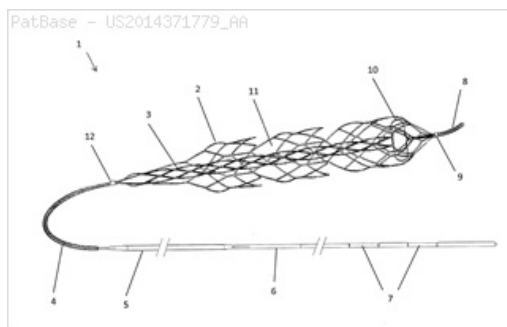
Title: CLOT RETRIEVAL DEVICE FOR REMOVING OCCLUSIVE CLOT FROM A BLOOD VESSEL

Abstract: A clot retrieval device may include an elongate member and an expandable clot engaging element configured to extend across the clot in its expanded state. The expandable clot engaging element may include a first monolithic structure and a second monolithic structure. The first monolithic structure may encircle the second monolithic structure over at least a portion of its length. The second monolithic structure may include a proximal section, an intermediate section, and a distal

section. The distal section may include an expansion.

Classifications:

International (IPC 8-9): A61B17/00 A61B17/12 A61B17/22 A61B17/221 A61B17/3207 A61F2/01 A61M25/00 A61M29/00 (Advanced/Invention); A61B17/00 A61B17/22 A61F2/01 (Advanced/Non-invention); A61B17/00 A61F2/00 (Core/Invention)
CPC: A61B17/12109 A61M29/00 A61B17/221 A61B17/320725 A61B2017/00358 A61B2017/00778 A61B2017/22034 A61F2/013 A61B2017/2212
US: 1/1 606/127 606/159 606/200



Family:

Publication number	Publication date	Application number	Application date
CN105208950 A	20151230	CN201480028407	20140305
CN109157304 A	20190108	CN201810594736	20140305
EP2967610 A1	20160120	EP20140708025	20140305
EP2967610 B1	20181205	EP20140708025	20140305
ES2708786 T3	20190411	ES20140708025T	20140305
JP2016513505 T2	20160516	JP20150562023T	20140305
JP2018196762 A2	20181213	JP20180153407	20180817
PL2967610 T3	20190731	PL20140708025T	20140305
SI2967610 T1	20190731	SI20140031008T	20140305
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US2014371779 AA	20141218	US20140206973	20140312
US2015164523 AA	20150618	US20150629217	20150223
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US2016106449 AA	20160421	US20150985877	20151231
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US2016113664 AA	20160428	US20150985628	20151231
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US2019231372 AA	20190801	US20190376652	20190405
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Priority:

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US20150985574	20151231	US20150985628	20151231	US20150985823	20151231
JP20180153407	20180817	US20190376652	20190405		

Probable Assignee: NEURAVI LTD

Assignee(s): (std): NEURAVI LTD

Inventor(s): (std): CASEY BRENDAN ; BRADY EAMON ; VALE DAVID ; RAZAVI MAHMOOD ; MCARDLE KEVIN ; HARDIMAN DAVID ; GILVARRY MICHAEL ; EAMON BRADY ; BRENDAN CASEY ; MICHAEL GILVARRY ; DAVID HARDIMAN ; KEVIN MCARDLE ; MAHMOOD RAZAVI ; DAVID VALE

Agent(s): OBRIEN JOHN AUGUSTINE; CARPMAELS AND RANSFORD LLP; IZQUIERDO MARIA ALICIA; YAMAMOTO OSAMU; TAKEUCHI SHIGEO; ONO SHINJIRO; KOBAYASHI YASUSHI; MIYAMAE TORU; NAKANISHI MOTOHARU; FULYA SUEMERALP; BOOKOFF MCANDREWS PLLC; TROUTMAN SANDERS LLP; OBRIEN JOHN 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

4) Family number: 57409245 (US2014371780A)

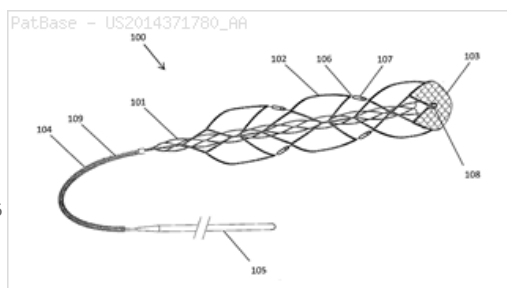
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Title: DEVICES AND METHODS FOR REMOVAL OF ACUTE BLOCKAGES FROM BLOOD VESSELS

Abstract: A clot retrieval device may include an elongate shaft and an expandable section. The expandable section may include a framework of interconnected strut elements. The connection region between adjacent strut elements may include crown elements. Additionally, the framework may be formed from a substrate material and at least a portion of a plurality of said strut elements may be coated with a coating material. Further, at least a portion of a plurality of said crown elements may not be coated with said coating material.

Classifications:

International (IPC 8-9): A61B17/00 A61B17/22 A61B17/221 A61B17/3207 A61B90/00 A61L31/02 A61M29/00 B05D1/32 B05D3/12 (Advanced/Invention); A61B17/00 A61B17/22 A61B19/00 A61B90/00 (Advanced/Non-invention); A61B17/00 A61B90/00 (Core/Invention)
CPC: A61L31/022 A61B17/221 B05D1/322 B05D3/12 A61B2017/2212 A61B2017/2217 A61B2017/00526 A61B2017/00867 A61B2017/00951 A61B2017/00942 A61B2017/22034 A61B2090/3966
US: 427/2.28 606/159 606/200



Family:

Publication number	Publication date	Application number	Application date
EP2967611 A2	20160120	EP20140709324	20140312
EP2967611 B1	20190116	EP20140709324	20140312
ES2713633 T3	20190523	ES20140709324T	20140312
SI2967611 T1	20190430	SI20140031057T	20140312
TR201901830 T4	20190321	TR20190001830T	20140312
US2014371780 AA	20141218	US20140207069	20140312
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US2019142442 AA	20190516	US20190248539	20190115
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US10357265 BB	20190723	US20140774110	20140312
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Priority:

US20130784940P 20130314 EP20140709324 20140312 US20140207069 20140312
WO2014EP54828 20140312 US20140774110 20140312 US20190248539 20190115

Probable Assignee: NEURAVI LTD

Assignee(s): (std): NEURAVI LTD

Inventor(s): (std): GILVARRY MICHAEL ; HARDIMAN DAVID ; VALE DAVID ; BRADY EAMON ; CASEY BRENDAN

Inventor(s): EAMON BRADY ; BRENDAN CASEY ; MICHAEL GILVARRY ; DAVID HARDIMAN ; DAVID VALE

Agent(s): OBRIEN JOHN AUGUSTINE; CARPMAELS AND RANSFORD LLP; IZQUIERDO MARIA ALICIA; FULYA SUEMERALP; TROUTMAN SANDERS LLP; OBRIEN JOHN 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

5) Family number: 29068060 (US2003212430A)

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Title: MEDICAL RETRIEVAL DEVICE

Abstract: Alternative designs, materials and manufacturing methods for medical retrieval devices. Some embodiments pertain to a medical retrieval device including a cage having internal migration barriers therein. Some embodiments pertain to a medical retrieval device including a cage having variable diameters along the length thereof. Several alternative medical retrieval devices constructions and/or designs including methods and techniques of construction are also disclosed.

Classifications:

International (IPC 8-9): A61B17/22 A61F2/01 A61F2/06 A61F2/84 A61F2/90 (Advanced/Invention)

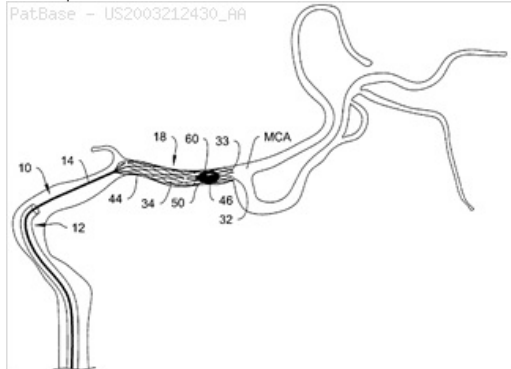
International (IPC 1-7): A61F2/01 A61M29/00

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US: 606/127 606/198 606/200 606/200P

PatBase - US2003212430_A4



Family:

Publication number	Publication date	Application number	Application date
AU2003220066 AA	20030922	AU20030220066	20030306
US2003212430 AA	20031113	US20030382760	20030306
US7063707 BB	20060620	US20030382760	20030306
WO03075793 A1	20030918	WO2003US06924	20030306

Priority:

US20020362224P 20020306 US20030382760 20030306 WO2003US06924 20030306

Probable Assignee: STRYKER CORP

Assignee(s): (std): SCIMED LIFE SYSTEMS INC

Assignee(s): STRYKER CORP ; STRYKER EUROPEAN HOLDINGS I LLC ; STRYKER OPERATIONS LTD NV ; STRYKER MEDTECH LTD ; BARRY DAVID ; BOSE ARANI ; BOSTON SCIENTIFIC LTD ; BOSTON SCIENTIFIC SCIMED INC

Inventor(s): (std): BOSE ARANI ; BARRY DAVID

Inventor(s): ARANI BOSE ; DAVID BARRY

Agent(s): CROMPTON SEAGER AND TUFTE 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 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

6) Family number: 29500258 (US2003055490A)

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Title: NON-FORESHORTENING INTRALUMINAL PROSTHESIS

Abstract: An intraluminal prosthesis is provided with a plurality of annular elements. Each annular element includes a plurality of struts and apices connected to form an annular configuration. Each annular element has a compressed state and an expanded state, and has a longitudinal dimension which is smaller in the expanded state than in the compressed state. A plurality of connecting members connect the apices of adjacent annular elements. The connecting members have a plurality of alternating segments that function to compensate for the smaller longitudinal dimension of each annular element in the expanded state. The stent may be provided with varying flexibility along its length and/or circumference, and may include segments that have different diameters.

Classifications:

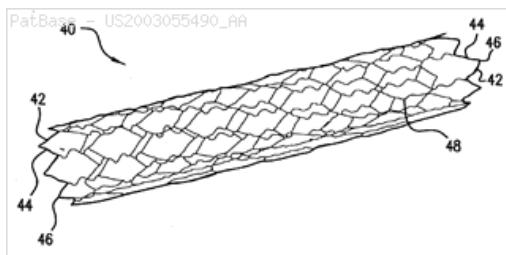
International (IPC 8-9): A61F2/00 A61F2/06 A61F2/84 A61F2/90 A61F2/91 A61F2/915 A61M29/00 B23K26/38 (Advanced/Invention); A61F2/00 A61F2/07 A61L27/06 A61L31/02 B23K26/00 (Advanced/Non-invention); A61F2/06 A61F2/82 A61M29/00 (Core/Invention); A61F2/00 A61L31/02 B23K26/00 (Core/Non-invention)

International (IPC 1-7): A61F2/06 A61M29/00 A61M29/02

CPC: A61F2230/0054 A61F2250/0018 A61F2/91 A61F2/07 A61F2/915 A61F2002/91525 A61F2002/91533 A61F2002/91541 A61F2002/91558 A61F2210/0019 A61F2250/0029 A61F2250/0039

European: A61F2/06S6N2 A61F2/91 A61F2/915 K61F2/07 K61F2/915 K61F2/915E K61F2/915F K61F2/915F2 K61F2/915G2 K61F210/00D2 K61F250/00N12 K61F250/00N19 K61F250/00N2

US: 606/195 606/198 623/1.119 623/1 623/1.13 623/1.130P 623/1.15 623/1.150P 623/1.150S 623/1.16 623/1.160S 623/1.17 623/1.170P 623/1.18 623/1.180S 623/1.19 623/12

**Family:**

Publication number	Publication date	Application number	Application date
AU199860561 A1	19980826	AU19980060561	19980204
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AU757660 B2	20030227	AU20010078294	20011009
AU766067 B2	20031009	AU20010078295	20011009
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EP1028772 A4	20060705	EP19980903920	19980204
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US2003055490 AA	20030320	US20020283957	20021030
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US2007213806 AA	20070913	US20070726430	20070321
US2007213807 AA	20070913	US20070726537	20070321
US2007213808 AA	20070913	US20070726660	20070321
US5827321 A	19981027	US19970797814	19970207
US6106548 A	20000822	US19980179021	19981026
US6475236 BA	20021105	US20000641121	20000817
US6764506 BB	20040720	US20020283957	20021030
US8882823 BB	20141111	US20070726660	20070321
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Priority:

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Probable Assignee: ENDOSYSTEMS LLC

Assignee(s): (std): CORNERSTONE DEVICES INC ; ENDOSYSTEMS LLC ; IYER SRIRAM S ; REDMOND RUSSELL J ; ROUBIN GARY S ; VIDAL CLAUDE A ; WHITE GEOFFREY HAMILTON

Inventor(s): (std): WHITE JEFFREY HAMILTON ; IYER SRIRAM S ; VIDAL CLAUDE A ; ROUBIN GARY S ; WHITE GEOFFREY HAMILTON ; IYER SRIRAM S ; REDMOND RUSSELL J ; VIDAL CLAUDE A ; JEFFREY HAMILTON WHITE ; GARY S ROUBIN ; SRIRAM S IYER ; SRIRAM S IYER ; GEOFFREY HAMILTON WHITE ; RUSSELL J REDMOND ; CLAUDE A VIDAL ; IYER SRIRAM S ; WHITE GEOFFREY H

Inventor(s): SRIRAM S IYER ; CLAUDE A VIDAL ; REDMOND RUSSELL ; WHITE GEOFFREY ; VIDAL CLAUDE ; ROUBIN GARY ; IYER SRIRAM

Agent(s): PHILLIPS ORMONDE FITZPATRICK; MOFFAT AND CO; RAYMOND SUN, LAW OFFICES OF RAYMOND SUN; RAYMOND SUN LAW OFFICES OF RAYMOND SUN; RAYMOND

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

Abstract: An embolic obstruction retrieval device including a self-expandable member having a proximal end portion, a main body portion and a distal end portion. Each of the self-expandable portions consists of a plurality of cell structures formed by intersecting strut members. At least one proximal cell structure in the proximal end portion has one or more struts that have a width and/or thickness greater than the width and/or thickness of the majority of strut members in the main body and distal end portions of the expandable member. Attached to at least one of the proximal-most cell structures in the proximal end portion is a proximally extending flexible wire having sufficient length and flexibility to navigate the tortuous vasculature and access the embolic obstruction. In one implementation, the embolic obstruction retrieval device is delivered to the embolic obstruction through the lumen of a delivery catheter.

Classifications:

International (IPC 8-9): A61B17/00 A61B17/22 A61B17/221

A61B17/3207 A61F A61F2/01 A61F2/06 A61F2/07 A61F2/82

A61F2/84 A61F2/88 A61F2/90 A61F2/91 A61F2/915 A61F2/95

A61M29/00 (Advanced/Invention);

A61B17/00 A61B17/22 A61B17/221 A61B17/3207 A61F2/01

A61F2/82 A61F2/915 A61L31/00 (Advanced/Non-invention);

A61F (Subclass/Invention)

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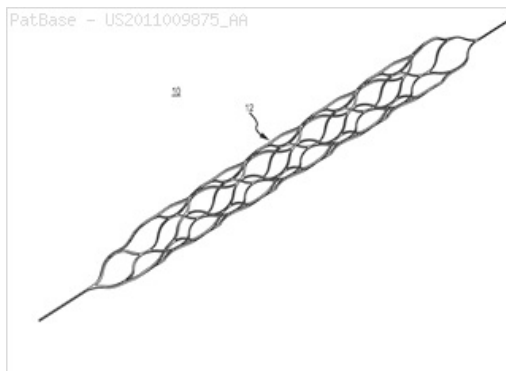
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US: 1/1 606/127 606/127P 606/159 606/194 606/194P 606/200 606/200P 623/1.1 623/1.11 623/1.110P 623/1.16 623/1.160P

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Probable Assignee: CONCENTRIC MEDICAL INC

Assignee(s): (std): BONSIGNORE CRAIG L ; CONCENTRIC MEDICAL INC ; GRANDFIELD RYAN M ; PEDERSEN KIRK L ; SANDERS ELLIOT H ; MILLER JOHN H ; WILSON SCOTT D ; VU EMILY

Assignee(s): CONCENTRIC MEDICAL INC MOUNTAIN VIEW

Inventor(s): (std): WILSON SCOTT D ; VU EMILY ; PEDERSEN KIRK L ; MILLER JOHN H ; GRANDFIELD RYAN M ; BONSIGNORE CRAIG L ; SANDERS ELLIOT H ; L PEDERSEN KIRK ; H SANDERS ELLIOT ; L BONSIGNORE CRAIG ; CRAIG L BONSIGNORE ; KIRK L PEDERSEN ; SCOTT D WILSON ; ELLIOT H SANDERS ; JOHN H MILLER ; RYAN M GRANDFIELD ; EMILY VU ; ELIOT H SANDERS ; KIRK L PERDESEN

Inventor(s): GRANDFIELD RYAN M LIVERMORE ; WILSON SCOTT D REDWOOD CITY ; SANDERS ELLIOT H PALO ALTO ; MILLER JOHN H REDWOOD CITY ; WILSON SCOTT D FREMONT

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; BLAKE CASSELS AND GRAYDON LLP; DE ROOIJ MATHIEU JULIEN; ZBM PATENTS; ZBM PATENTS ZEA BARLOCCI AND MARKVARDSEN; ZEA BERNABE; TOMAS TESIFONTE ENRIQUE; CONTRERAS YAHIEL; PEARL COHEN ZEDEK LATZER BARATZ; KITA AOYAMA INT PATENT BUREAU; BERENBAUM WEINSHIENK PC; HAMILTON DESANCTIS AND CHA LLP; TIM L; PETER B; TIM; HAMILTON DESANCTIS AND CHA; VISTA IP LAW GROUP LLP; SCULL PETER B

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

8) Family number: 57428756 (US2014276922A)

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Title: SHAPE MEMORY METAL EMBOLI TRAP

Abstract: An embolus trap device is provided. The embolus trap device consists of an outer catheter, an inner catheter, a plurality of filter baskets, and a plurality of basket collapse wires. The filter baskets are of different radius and are positioned along the inner catheter in order of increasing radius from the proximal to the distal end. The filter baskets increase in radius so that any embolic fragment that flows past each basket has a chance to be caught and secured by a filter basket distal to it. The filter baskets are separately collapsible by the plurality of collapse wires and are collapsed in proximal-to-distal fashion with the largest basket being closed last in order to capture embolic fragments that may emerge from the smaller baskets because of disruptions as they are closed.

Classifications:

International (IPC 8-9): A61B17/221 A61B17/3207 A61F2/00

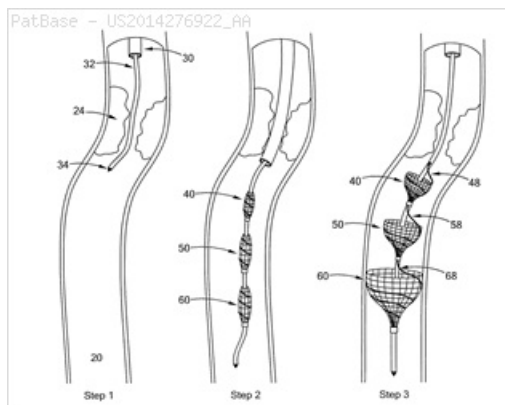
A61F2/01 A61M29/00 (Advanced/Invention);

A61B17/22 (Advanced/Non-invention)

CPC: A61B17/3207 A61B17/221 A61B2017/22044 A61B2017/22094

A61B2017/2212 A61F2/013 A61F2002/016

US: 606/127 606/128



Family:

Publication number	Publication date	Application number	Application date
US2014276922 AA	20140918	US20140199447	20140306
US9724112 BB	20170808	US20140199447	20140306

Priority:

US20130788549P 20130315 US20140199447 20140306

Probable Assignee: COOK MEDICAL TECHNOLOGIES LLC

Assignee(s): (std): COOK MEDICAL TECHNOLOGIES LLC

Assignee(s): COOK INC

Inventor(s): (std): HOPKINS MARIE ; MCLAIN CAMERON ; CUNNANE CONNOR ; SUDLOW CLAY ; GAERKE BRIAN

Agent(s): BRINKS GILSON AND LIONE