

Search query (3): fn=(52144494 or 52144494 or 59916215 or 51257085 or 42024899 or 42024899 or 42024899 or 23089682 or 31809883 or 28344065 or 28344065 or 28344065 or 28344065 or 42069115 or 42069115 or 42074540 or 43257493 or 34243763 or 43811582 or 48343829 or 48343829 or 48343829 or 42024899 or 3472065 or 17111729 or 11792359 or 12545867 or 11566160 or 11664649 or 20677266 or 23089682 or 42074540 or 31809883 or 28344065 or 28344065 or 43811582 or 50438298 or 50438298 or 42069115 or 50438298 or 50438298 or 42024899 or 48343829 or 57229224 or 50438298 or 50438298 or 48343829 or 58128673 or 48343829 or 50438298 or 54554512 or 54554512 or 48343829 or 61848790 or 62457180 or 18734957 or 7644485 or 1097650 or 8499270 or 10794923 or 2205762 or 2799205 or 4309439 or 3319929 or 4351141 or 14831887)

Results: 37

Search history

Search PN=(US2011060229) (Results 1)

1:

Search fn=(49433263 or 53523374 or 55980640 or 60119869 or 56670870 or 55885089 or 57421815 or 55521644 or 56200650 or 53523374 or 54290201 or 56348483 or 56200650 or 54290201 or 60592529 or 62922417 or 67435025 or 47034286 or 48343829 or 48343829 or 48343829 or 41884866 or 50818334 or 51434200 or 51434334 or 51884277 or 53125418 or 50226402 or 49044949 or 50818334 or 54554820 or 55109193 or 55885089 or 53428788 or 57416337 or 53523374 or 50613018 or 58286298 or 54183102 or 59449533 or 57468316 or 48343829 or 50818334 or 51434334 or 48343829 or 48343829 or 50818334 or 58698338 or 51884277 or 51884277 or 51884277 or 48343829 or 57421815 or 32099125 or 53428788 or 49044949 or 50613018 or 58286298 or 56670870 or 59226367 or 48343829 or 60541502 or 59777742 or 60541502 or 55521644 or 59449533 or 51336653 or 53523374 or 51417236 or 51417236 or 55980640 or 56200650 or 57421815 or 50818334 or 59606284 or 59899555 or 61651304 or 61848790 or 60592529 or 65074644 or 62922417 or 31385234 or 8914261 or 18251689 or 18251689 or 2814353 or 2814353 or 30821207 or 28961180 or 28162109 or 28187218 or 30129675 or 29437840 or 33528238 or 30258488 or 28670373 or 30119615 or 30358584 or 27908201 or 31418539 or 31781041 or 32099125 or 32099125 or 31169512 or 32541218 or 27161201 or 30089107 or 32202464 or 33096750 or 33080793 or 33178048 or 33293110 or 34205217 or 34367509 or 34394227 or 32202464 or 33313785 or 37222191 or 33080793 or 41744170 or 41934111 or 41953056 or 42068902 or 43235066 or 33699033 or 42771628 or 30051792 or 42974887 or 42998977 or 30670013 or 43257493 or 42960593 or 42104319 or 43362770 or 34243763 or 42998977 or 43625484 or 41695460 or 34537428 or 33096750 or 42149291 or 42776662 or 44583595 or 42258069 or 42176045 or 44985714 or 44581754 or 41744170 or 48343829 or 48343829 or 48343829 or 33313785 or 48535853 or 48875744 or 42099524 or 32202464 or 44570444 or 49623103 or 44583595 or 4206311 or 1964136 or 10254229 or 5250024 or 3133662 or 17029648 or 5101269 or 10969308 or 29365804 or 11136548 or 9105064 or 9582090 or 11581569 or 8636525 or 8636525 or 12804901 or 12854863 or 10623165 or 15022654 or 10737393 or 18897695 or 11178639 or 11236490 or 11566160 or 30274677 or 12031263 or 29371096 or 14936426 or 14964684 or 30089107 or 24147979 or 28611205 or 30181534 or 28541708 or 30222695 or 28172899 or 29020440 or 30589265 or 33096750 or 41953056 or 41953056 or 27908201 or 48928418 or 49012537 or 32099125 or 42176045 or 42776662 or 48343829 or 48343829 or 27908201 or 34466790 or 34466790 or 43234952 or 43234952 or 42960938 or 43547945 or 43547945 or 30821207) (Results 150)

Search fn=(52144494 or 52144494 or 59916215 or 51257085 or 42024899 or 42024899 or 42024899 or 23089682 or 31809883 or 28344065 or 28344065 or 28344065 or 28344065 or 42069115 or 42069115 or 42074540 or 43257493 or 34243763 or 43811582 or 48343829 or 48343829 or 48343829 or 42024899 or 3472065 or 17111729 or 11792359 or 12545867 or 11566160 or 11664649 or 20677266 or 23089682 or 42074540 or 31809883 or 28344065 or 28344065 or 43811582 or 50438298 or 50438298 or 42069115 or 50438298 or 50438298 or 42024899 or 48343829 or 57229224 or 50438298 or 50438298 or 48343829 or 58128673 or 48343829 or 50438298 or 54554512 or 54554512 or 48343829 or 61848790 or 62457180 or 18734957 or 7644485 or 1097650 or 8499270 or 10794923 or 2205762 or 2799205 or 4309439 or 3319929 or 4351141 or 14831887) (Results 37)

1) Family number: 18734957 (US1527291A)

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Title: SAFETY-PRESSURE-INDICATING NEEDLE

Classifications:

International (IPC 8-9): A61M5/32 (Advanced/Invention);

A61B17/34 (Advanced/Non-invention);

A61M5/32 (Core/Invention);

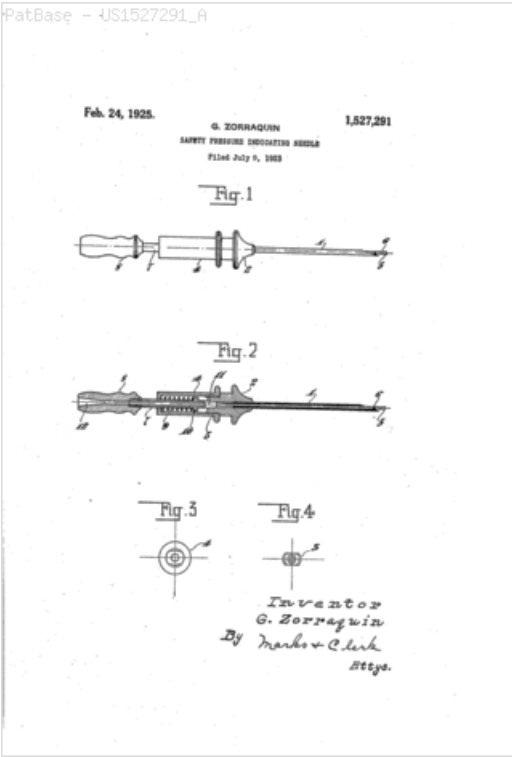
A61B17/34 (Core/Non-invention)

International (IPC 1-7): A61M5/32

CPC: A61B17/3474 A61M5/32

European: A61M5/32 K61B17/34N

US: 604/158



Family:

Publication number	Publication date	Application number	Application date
US1527291 A	19250224	US19230650531	19230709

Priority:

US19230650531 19230709

Probable Assignee: GUILLERMO ZORRAQUIN
Assignee(s): (std): GUILLERMO ZORRAQUIN
Inventor(s): (std): GUILLERMO ZORRAQUIN
Inventor(s): ZORRAQUIN GUILLERMO

2) Family number: 7644485 (US3792703A)

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Title: CATHETER PLACEMENT UNIT

Abstract: A catheter placement unit comprising means for maintaining a catheter in alignment with the bore of a stylet needle and support means extendable through the bore of said catheter and advanceable with said catheter through said needle to prevent misalignment of said catheter with said needle during placement.

Classifications:

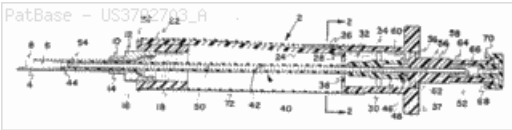
International (IPC 8-9): A61M25/01 (Advanced/Invention);
A61M25/01 (Core/Invention)

International (IPC 1-7): A61M5/00

CPC: A61M25/0111

European: A61M25/01C2

US: 128/214.4 604/158



Family:

Publication number	Publication date	Application number	Application date
US3792703 A	19740219	US19720270342	19720710

Priority:

US19720270342 19720710

Probable Assignee: DESERET MEDICAL INC C O BECTON DICKINSON AND CO
Assignee(s): (std): DESERET PHARMA
Assignee(s): DESERET PHARMACEUTICAL CO INC US ; DESERET MEDICAL INC ; DESERET MEDICAL INC C O BECTON DICKINSON AND CO
Inventor(s): (std): MOOREHEAD H
Inventor(s): MOOREHEAD H US

3) Family number: 1097650 (US3840008A)

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Title: SAFETY HYPODERMIC NEEDLE

Abstract: A hypodermic needle for safely injecting fluid into nerve and vessel crowded areas of a patient. The needle comprises a pointed hollow piercing member slidably mounted in a substantially frictionless manner about a hollow fluid delivery tube. The delivery tube has a blunt nose and is longitudinally of a constant diameter, has at least one fluid opening near its blunt end, and is adapted to be connected to a conventional syringe at its other end. The hollow piercing member is connected to the delivery tube by a finger-operated collapsible bar. The bar is provided with a centrally located groove to facilitate collapse at the moment the operator removes the force of his finger. The blunt nose delivery tube is then free to penetrate into the tissue of the patient without endangering nerve or vessel.

Classifications:

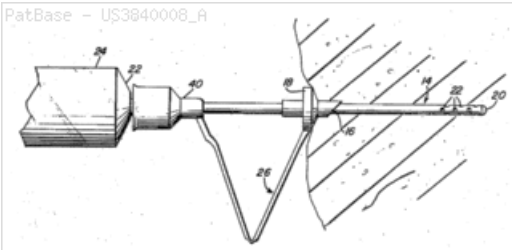
International (IPC 8-9): A61M5/32 (Advanced/Invention);
A61M5/32 (Core/Invention)

International (IPC 1-7): A61M25/00 A61M5/32

CPC: A61M5/3287 A61M5/3286 A61M5/3291

European: A61M5/32D K61M5/32F2

US: 604/117 604/158 604/506



Family:

Publication number	Publication date	Application number	Application date
US3840008 A	19741008	US19720245244	19720418

Priority:

US19720245244 19720418

Probable Assignee: SURGICAL CORP
Assignee(s): (std): SURGICAL CORP
Assignee(s): SURGICAL CORP US
Inventor(s): (std): NOILES D
Inventor(s): NOILES D US

4) Family number: 8499270 (US4316463A)

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Title: CORROSIVE PROTECTED HYPODERMIC MODULE

Abstract: A hypodermic injection device including an injector and a medicament and needle ampule wherein the needle is initially isolated from a possibly corrosive medicament, but wherein the needle is movable to a position in flow communication with the medicament only at the moment of injection, and an injector device into which the ampule can be loaded under controlled conditions of needle entry force and depth, medicament entry into tissue being accomplished while the needle is moving in its penetration of tissue.

Classifications:

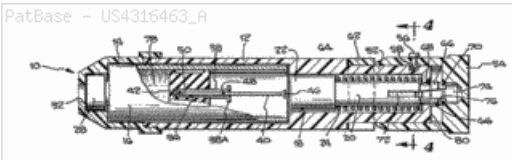
International (IPC 8-9): A61M5/20 (Advanced/Invention);
A61M5/32 (Advanced/Non-invention);
A61M5/20 (Core/Invention);
A61M5/32 (Core/Non-invention)

International (IPC 1-7): A61M5/20

CPC: A61M5/2033 A61M2005/206 A61M2005/2073

European: A61M5/20C K61M5/20I K61M5/20P K61M5/32E

US: 128/218F 604/135 604/139 604/157 604/194 604/201



Family:

Publication number	Publication date	Application number	Application date
US4316463 A	19820223	US19810228628	19810126

Priority:

US19810228628 19810126

Probable Assignee: VAC O CAST INC
Assignee(s): (std): VAC O CAST INC
Assignee(s): VAC O CAST INC A CORP OF CA ; SCHMITZ BILLIE RAE HEIR OF JOHN B SCHMITZ ; VAC O CAST
Inventor(s): (std): SCHMITZ WILLIAM L ; SCHMITZ JOHN B

5) Family number: 10794923 (US4601710A)

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Title: TROCAR ASSEMBLY

Abstract: A trocar assembly (70) formed from a trocar tube subassembly (74) and a separable, interfitting trocar subassembly (72). The trocar tube assembly includes a head (112) having a bore (120) into which a trocar tube (116) is fitted and a manually operated slide valve assembly (118) mounted transversely of the bore in the head. The valve has a bore (134) through it that may be aligned with the bore in the head by movement of the valve. The trocar subassembly includes a head (76) that has a bore (92) extending partly through it in which a trocar obturator (82) and a concentric tubular shield (86) are mounted such that the shield is capable of limited axial movement relative to the obturator between a normal, extended position in which the shield effectively covers the piercing tip (84) of the obturator and a retracted position in which the tip is exposed. The obturator and shield are inserted through the bore in the trocar tube subassembly head, the slide valve bore and the trocar tube. The bore in the slide valve has a radial tooth (136) in it that engages a slot (138) in the shield to reversibly lock the shield in its extended position when the slide valve is in its normal position. The valve is depressed manually to disengage the tooth to allow axial

movement of the shield or separation of the trocar subassembly from the trocar tube subassembly.

Classifications:

International (IPC 8-9): A61B1/00 A61B17/34 (Advanced/Invention);

A61B17/00 A61B19/00 (Advanced/Non-invention);

A61B1/00 A61B17/34 (Core/Invention);

A61B17/00 A61B19/00 (Core/Non-invention)

International (IPC 1-7): A61B1/00 A61B17/34 A61M5/178 A61M5/18

CPC: A61B2090/08021 A61B17/3496 A61B17/3474 A61B2017/00473

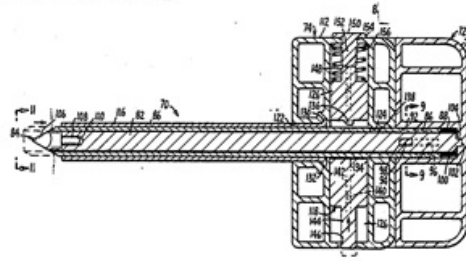
A61B2017/346

European: A61B17/34S2 K61B17/00H6 K61B17/34G6W K61B17/34N

K61B19/48B2

US: 128/305 30/152 30/162 60/416.5 604/164.12 604/165 604/274

PatBase - US4601710_R



Family:

Publication number	Publication date	Application number	Application date
AT40640 E	19890215	AT19840305523T	19840814
DE3476632 D1	19890316	DE19843476632	19840814
EP0135364 A2	19850327	EP19840305523	19840814
EP0135364 A3	19860319	EP19840305523	19840814
EP0135364 B1	19890208	EP19840305523	19840814
JP1617027 C3	19910912	JP19840171695	19840820
JP2028965 B4	19900627	JP19840171695	19840820
JP60060830 A2	19850408	JP19840171695	19840820
US4601710 A	19860722	US19840638048	19840806
US4601710 B1	19980505	US19840638048	19840806

Priority:

US19830526179 19830824 US19840638048 19840806 EP19840305523 19840814

Probable Assignee: ENDOTHERAPEUTICS CORP

Assignee(s): (std): ENDOTHERAPEUTICS CORP ; UNITED STATES SURGICAL CORP

Assignee(s): ENDO SERAPYUUTEIKUSU CORP ; ENDOSERAPIYUUTEIKUSU CORP ; ENDOTHERAPEUTICS A CORP OF CA CORP

Inventor(s): (std): MOLL FREDERIC H

Inventor(s): FUREDERITSUKU ETSUCHI MORU

Designated states: AT CH DE FR GB IT LI SE

6) Family number: 2205762 (US4747414A)

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Title: Instrument for bone marrow puncture

Abstract: PCT No. PCT/FR86/00052 Sec. 371 Date Oct. 20, 1986 Sec. 102(e) Date Oct. 20, 1986 PCT Filed Feb. 20, 1986 PCT Pub. No. WO86/04805 PCT Pub. Date Aug. 28, 1986. The invention relates to an instrument for bone marrow puncture comprising a sampling needle (10) fused to a piston which can be displaced within a piston barrel (4), a mechanism (6) for releasing the piston from a first position, at which the needle is entirely withdrawn within the interior of the anterior part of the said piston barrel, to a second position at which the extremity of the needle is projected to the outside. The stroke of the piston is sufficient for the needle to pierce the bone and reach the region of the bone marrow where sampling is to be carried out, when the anterior part (32) of the instrument is placed and maintained at the height of the appropriate bone. The posterior part of the piston barrel defines a closed chamber (16) for the collection of the marrow sample aspirated into this chamber under the effect of the negative pressure generated by the displacement of the piston from the first to the second position.

Classifications:

International (IPC 8-9): A61B10/00 A61B10/02

A61B17/34 (Advanced/Invention);

A61B17/34 (Advanced/Non-invention);

A61B10/00 A61B10/02 A61B17/34 (Core/Invention)

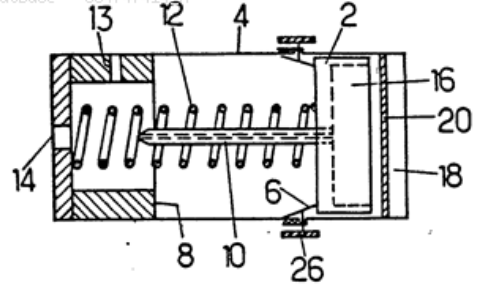
International (IPC 1-7): A61B10/00 A61B17/34

CPC: A61B10/025 A61B2010/0258

European: A61B10/00C2B A61B10/02P4 K61B10/02P4M

US: 128/754 128/763 600/567 600/576 604/157 604/87 606/182

PatBase - US4747414_R



Family:

Publication number	Publication date	Application number	Application date
AT44866 E	19890815	AT19860901410T	19860220
AU198655168 A1	19860910	AU19860055168	19860220
AU590875 B2	19891123	AU19860055168	19860220
BRPI8605481 A	19870422	BR1986PI05481	19860220
DE3664558 D1	19890831	DE19863664558	19860220
DK497086 A	19861017	DK19860004970	19861017
DK497086 A0	19861017	DK19860004970	19861017
EP0211918 A1	19870304	EP19860901410	19860220
EP0211918 B1	19890726	EP19860901410	19860220
ES552604 A0	19870516	ES19860552604	19860220

ES8705756 A1	19870516	ES19860552604	19860220
FR2577412 A1	19860822	FR19850002452	19850220
FR2577412 B1	19890407	FR19850002452	19850220
JP62502028 T2	19870813	JP19860501222	19860220
KR19877000012 A	19870228	KR19867000723	19860220
US4747414 A	19880531	US19860928245	19861020
WO8604805 A1	19860828	WO1986FR00052	19860220

Priority:

FR19850002452 19850220 EP19860901410 19860220 WO1986FR00052 19860220

Probable Assignee: BIOLOG AND IND SARL

Assignee(s): (std): BIOLOG AND IND R L SA ; BIOLOG AND IND S A R L ; BIOLOG AND IND SARL ; BIOLOG ET IND R L SA ; BIOLOG IND SARL

Assignee(s): BIOLOGIE AND IND SARL ; BIOLOGIE ET INDUSTRIE SARL ; BIOLOGIE IND SARL ; BIOLOGIE AND INDUSTRIE S A R L ; BIOLOGIE ET INDUSTRIE S A R L ; BIOLOGIE AND INDUSTRIE SARL

Inventor(s): (std): BROSSEL REMY

Inventor(s): REMY BROSSEL

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD

Designated states: AT AU BE BR CH DE DK FR GB IT JP KR LI LU NL SE US

7) Family number: 2799205 (US4793363A)

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Title: Biopsy needle

Abstract: A bone marrow biopsy device is provided that includes a cannula member and a stylet member each having arcuate handles having a length greater than the width thereof, a luer lock connector, and a handle locking arrangement. The cannula member handle has a recess which receives a collar on the stylet member handle. A radial pin and an axially extending luer lock connector are disposed in the recess. The collar has a slot which receives the pin for locking the stylet and cannula members together.

Classifications:

International (IPC 8-9): A61B10/00 A61B10/02 (Advanced/Invention);

A61B17/00 (Advanced/Non-invention);

A61B10/00 A61B10/02 (Core/Invention);

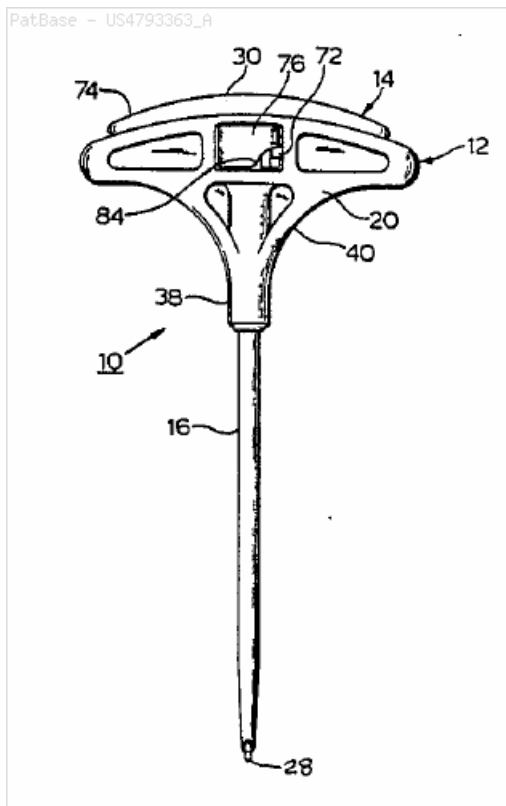
A61B17/00 (Core/Non-invention)

International (IPC 1-7): A61B10/00

CPC: A61B10/025 A61B2010/0258 A61B2017/00477

European: A61B10/00C2B A61B10/02P4 K61B10/02P4M K61B17/00K

US: 128/305 128/754 600/567 604/165 604/165.01 606/79 D24/147



Family:

Publication number	Publication date	Application number	Application date
US4793363 A	19881227	US19860906358	19860911

Priority:

US19860906358 19860911

Probable Assignee: SHERWOOD SERVICES AG

Assignee(s): (std): SHERWOOD MEDICAL CO

Assignee(s): SHERWOOD MEDICAL CO A DE CORP ; SHERWOOD MEDICAL COMPANY ; SHERWOOD SERVICES AG ; TYCO GROUP SARL

Inventor(s): (std): BURKHOLDER RICHARD A ; AUSERMAN RONALD W

Title: Infusion apparatus

Abstract: Apparatus for infusion of a solution into a catheter or the like, the apparatus including a syringe with an administration set having a cup-shaped member configured for selective interlocking engagement with the syringe. The syringe includes a piston member and a coil spring within the bore having a first end urging against the piston. A separable handle member has a shaft axially positionable within the bore, with a reduced diameter threaded end configured for threadably engaging an aperture in the piston. A spring retaining cup within the bore acts against the other end of the spring, with the cup having a central aperture of a dimension sufficient for passage therethrough of the reduced diameter end of the shaft of the handle. Coupling of the handle to the piston compresses the spring via the cup. After filling the syringe, attaching the administration set, and attaching the dispensing fitting to the catheter for the patient, the handle is removed, enabling expansion of the spring, which thus powers the piston to discharge the solution. A controlled flow rate is obtained by providing a fluid flow path of a given or restricted orifice size at the syringe outlet or within the administration set, preferably the latter.

Classifications:

International (IPC 8-9): A61M5/145 (Advanced/Invention);

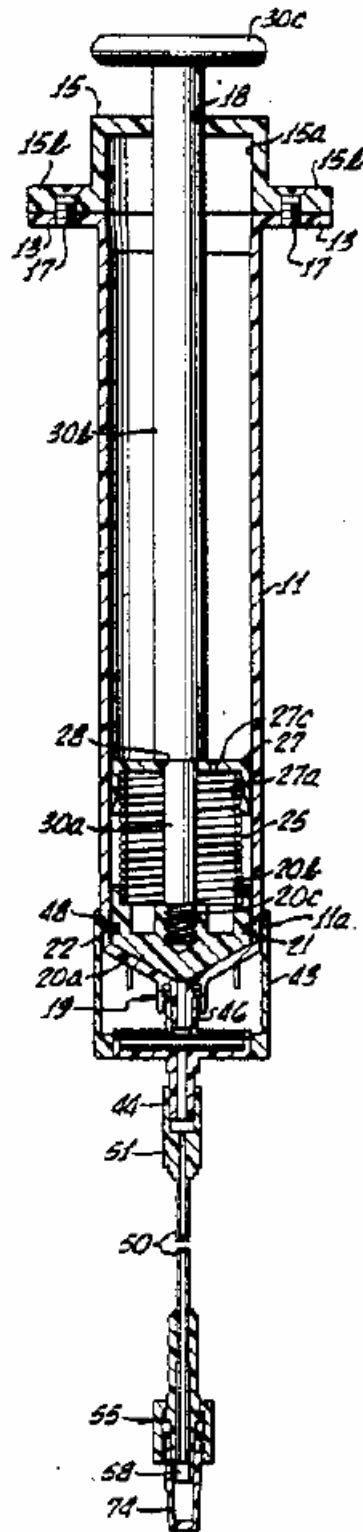
A61M5/145 (Core/Invention)

International (IPC 1-7): A61M37/00

CPC: A61M5/145

European: A61M5/145

US: 604/131 604/134 604/135 604/228

**Family:**

Publication number	Publication date	Application number	Application date
US4966585 A	19901030	US19880200231	19880531

Priority:

US19880200231 19880531

Probable Assignee:

GANGEMI RONALD J

Assignee(s): (std):

GANGEMI RONALD J

Inventor(s): (std):

GANGEMI RONALD J

Title: Method and system for inserting spinal catheters

Abstract: A method and a system for inserting spinal catheters for administration of spinal anaesthesia are disclosed. An epidural needle having a hub is inserted into the epidural space of a patient and a cannula having a blunt end is inserted into and advanced forwardly within the epidural needle for abutment against the dura-arachnoid membrane to place the membrane in tension. The cannula is locked in place in the epidural needle by a securing means attached to the hub of the epidural needle. A flexible catheter having a wire or stylet therein with an end projecting beyond the distal end of the catheter is inserted through the cannula for piercing a hole in the tensioned dura-arachnoid membrane whereby the catheter can be inserted a predetermined distance through the dura-arachnoid membrane into the subarachnoid space. The cannula and epidural needle are removed and the wire withdrawn to allow continuous administering of an anaesthetic through the catheter. A hole can be formed in the dura-arachnoid membrane by a sharp stylet prior to insertion of the catheter.

Classifications:

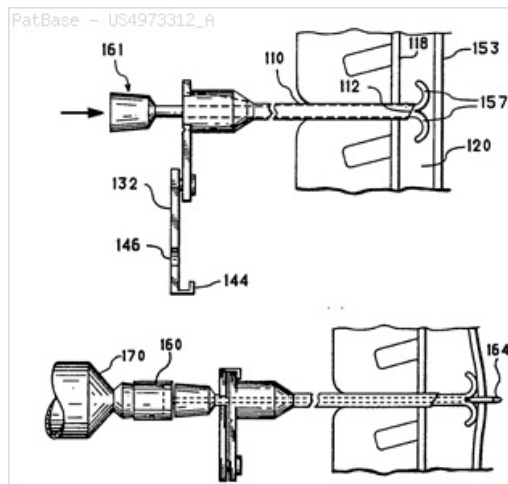
International (IPC 8-9): A61B17/34 A61M25/01 (Advanced/Invention); A61B17/34 A61M25/01 (Core/Invention)

International (IPC 1-7): A61M25/00 A61M25/01 A61M5/18

CPC: A61B17/3401 A61B2017/347 A61M25/01

European: A61B17/34B A61M25/01 K61B17/34K

US: 604/158 604/165 604/165.04



Family:

Publication number	Publication date	Application number	Application date
AT127698 E	19950915	AT19900906822T	19900524
AU199056365 A1	19901218	AU19900056365	19900524
AU638994 B2	19930715	AU19900056365	19900524
CA2037052 AA	19910318	CA19902037052	19900524
CA2037052 C	19950801	CA19902037052	19900524
DE69022366 D1	19951019	DE19906022366	19900524
DE69022366 T2	19960229	DE19906022366T	19900524
EP0428645 A1	19910529	EP19900906822	19900524
EP0428645 B1	19950913	EP19900906822	19900524
IE80142 B	19980603	IE19900001904	19900525
IE901904 A1	19910213	IE19900001904	19900525
IE901904 L	19901126	IE19900001904	19900525
IL94515 A0	19910310	IL19900094515	19900525
IL94515 A1	19940826	IL19900094515	19900525
US4973312 A	19901127	US19890357502	19890526
US5160323 A	19921103	US19910656153	19910325
WO9014124 A1	19901129	WO1990CA00169	19900524

Priority:

US19890357502 19890526 WO1990CA00169 19900524

Probable Assignee: DANIEL E ANDREW

Assignee(s): (std): ANDREW DANIEL E ; DANIEL E ANDREW

Assignee(s): ANDREW DANIEL E WATERLOO ONTARIO CA

Inventor(s): (std): ANDREW DANIEL E

Inventor(s): ANDREW DANIEL E WATERLOO ONTARIO CA ; DANIEL E ANDREW

Agent(s): PATENT ATTORNEY SERVICES; GOWLING LAFLEUR HENDERSON LLP; SANFORD TCOLB AND CO

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

Title: Over the needle catheter introducer

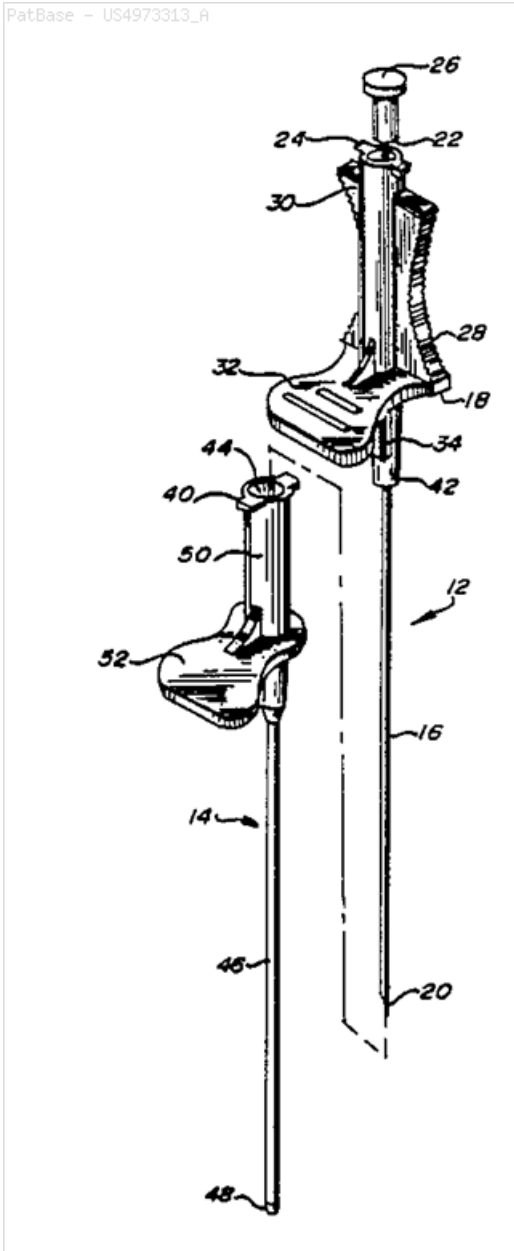
Abstract: An over the needle catheter introducer having an introducer needle and a cannula member with finger engaging means on the introducer needle and cannula member and a groove means on the introducer means to selectively engage a luer extension on the proximal end of the cannula member so that the introducer needle engages the cannula member in one position and is readily released therefrom by rotation of the cannula member about the introducer needle.

Classifications:

International (IPC 8-9): A61M25/00 A61M25/06 A61M5/00 (Advanced/Invention);

A61M25/00 A61M25/06 (Core/Invention)
International (IPC 1-7): A61M5/00
CPC: A61M25/0097 A61M25/0606
European: A61M25/00V A61M25/06C
US: 604/165 604/165.02

PatBase - US4973313_A



Family:

Publication number	Publication date	Application number	Application date
CA1327500 A1	19940308	CA19890613477	19890927
US4973313 A	19901127	US19890406649	19890913

Priority:

US19890406649 19890913 CA19890613477 19890927

Probable Assignee: SHERWOOD SERVICES AG

Assignee(s): (std): SHERWOOD MEDICAL CO ; KATSAROS GEORGES

Assignee(s): MACORS PAUL ; POLESE GIANCARLO ; SHERWOOD MEDICAL COMPANY ; SHERWOOD MEDICAL SA ; SHERWOOD SERVICES AG ; TYCO GROUP SARL

Inventor(s): (std): POLESE GIANCARLO ; MACORS PAUL ; KATSAROS GEORGES

Agent(s): MARKS AND CLERK

11) Family number: 3472065 (US5338306A)

© PatBase

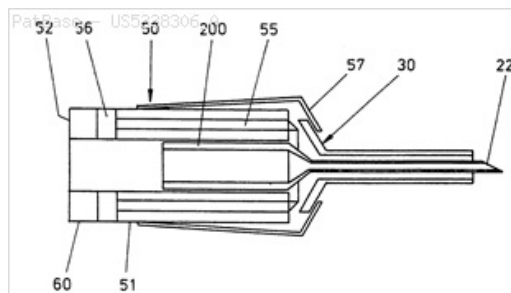
Title: Catheter introducing device

Abstract: PCT No. PCT/GB91/00777 Sec. 371 Date Nov. 16, 1992 Sec. 102(e) Date Nov. 16, 1992 PCT Filed May 16, 1991 PCT Pub. No. WO91/17786 PCT Pub. Date Nov. 28, 1991.A catheter introducing device comprises means (10) for holding a cannula (30) with a needle (20) inserted through it and with a tip (22) of the needle projecting from the cannula, and a biasing arrangement which is normally locked but when released urges the cannula forwardly and over the tip of the needle.

Classifications:

International (IPC 8-9): A61M25/06 (Advanced/Invention);

A61M25/06 (Core/Invention)
International (IPC 1-7): A61M25/01
CPC: A61M25/0606
European: A61M25/06C
US: 604/165 604/165.02 604/274



Family:

Publication number	Publication date	Application number	Application date
AU199178737 A1	19911210	AU19910078737	19910516
GB9010985 A0	19900704	GB19900010985	19900516
US5338306 A	19940816	US19920949515	19921116
WO9117786 A1	19911128	WO1991GB00777	19910516

Priority:

GB19900010985 19900516 WO1991GB00777 19910516

Probable Assignee: MEDIFIX LTD

Assignee(s): (std): MEDIFIX LIMITED ; MEDIFIX LTD ; SRIVATSA KADIYALI M

Assignee(s): SRIVATSA KADIYALI MADHAVA

Inventor(s): (std): SRIVATSA KADIYALI M ; SRIVATSA KADIYALI MADHAVA

Inventor(s): KADIYALI MADHAVA SRIVATSA

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

12) Family number: 14831887 (US5104382A)

© PatBase

Title: TROCAR

Abstract: A safety trocar is provided which includes a spring-loaded shield that shields the cutting tip of the obturator after the obturator penetrates tissue. The distal end of the shield is hemispheric in profile and contains slides within cutting tip. The rounded distal end enables the shield to spring forward to shield the cutting tip as soon as the tip perforates the tissue. In other embodiments, positive mechanical means effect shielding.

Classifications:

International (IPC 8-9): A61B17/34 A61B19/00 (Advanced/Invention);

A61B19/00 (Advanced/Non-invention);

A61B17/34 (Core/Invention);

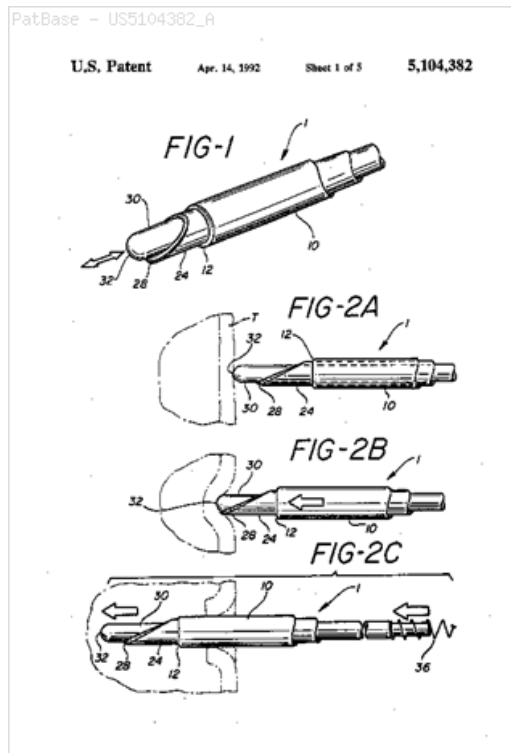
A61B19/00 (Core/Non-invention)

International (IPC 1-7): A61B17/34 A61M5/00 A61M5/32

CPC: A61B2090/08021 A61B17/3496 A61B17/3474

European: A61B17/34S2 K61B17/34N K61B19/48B2

US: 604/164.12 604/165 604/170 604/274



Family:

Publication number	Publication date	Application number	Application date
AU199210096 A1	19920723	AU19920010096	19920107
AU653979 B2	19941020	AU19920010096	19920107
CA2059222 AA	19920716	CA19922059222	19920113

EP0495634 A2	19920722	EP19920300317	19920114
EP0495634 A3	19921216	EP19920300317	19920114
GR1002617 B	19970221	GR19920100009	19920109
GR920100009 A	19921230	GR19920100009	19920109
JP5168644 A2	19930702	JP19920021624	19920113
US5104382 A	19920414	US19910641240	19910115
US5261891 A	19931116	US19920823810	19920220

Priority:

US19910641240 19910115 CA19922059222 19920113 US19920823810 19920220

Probable Assignee: ETHICON INC

Assignee(s): (std): ETHICON INC

Assignee(s): ETHICON INC A CORP OF OH ; MILLS EARL J ; PARKHURST HARRY C ; VINCZE BELA ; BRINKERHOFF RONALD J

Inventor(s): (std): BRINKERHOFF RONALD J ; BERA BINTSUE ; HARII SHII PAAKUHAASUTO ; VINCZE BELA ; MILLS EARL J ; PARKHURST HARRY C ; RONARUDO JIEI BURINKAAHOFU ; MILL EARL J ; AARU JIEI MIRUZU

Inventor(s): BELA VINCZE ; HARRY C PARKHURST ; RONALD J BRINKERHOFF ; EARL J MILLS

Agent(s): GRIFFITH HACK ; SWABEY OGILVY RENAULT

Designated states: AT CH DE ES FR GB IT LI

13) Family number: 17111729 (US5378241A)

© PatBase

Title: Anesthesia instrument

Abstract: An anesthesia instrument consists of a single lumen epidural cannula with a Touhy-type beveled aperture, an epidural catheter and a spinal cannula. The anesthesia instrument is characterized in that, the diameter or the cross-section of the epidural cannula is so dimensioned that, even with the epidural catheter positioned within the same, there is still sufficient space for the sliding through of a spinal cannula. In one form of the invention, marking means are provided to indicate at the proximal end of the epidural cannula, the position of the tip of the spinal cannula being inserted in the epidural cannula.

Classifications:

International (IPC 8-9): A61B17/34 A61M19/00 A61M25/06

A61M25/08 (Advanced/Invention);

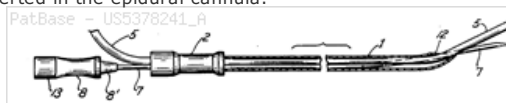
A61B17/34 A61M19/00 A61M25/06 A61M25/08 (Core/Invention)

International (IPC 1-7): A61B17/34 A61M19/00 A61M25/08 A61M25/6 A61M5/178

CPC: A61B17/3401

European: A61B17/34B

US: 604/164 604/170.03 604/264



Family:

Publication number	Publication date	Application number	Application date
AT136448 E	19960415	AT19930109600T	19930616
DE59302150 D1	19960515	DE19935002150	19930616
DE9208414 U1	19920910	DE19920008414U	19920624
EP0575878 A2	19931229	EP19930109600	19930616
EP0575878 A3	19940316	EP19930109600	19930616
EP0575878 B1	19960410	EP19930109600	19930616
ES2088191 T3	19960801	ES19930109600T	19930616
JP3492393 B2	20040203	JP19930152483	19930623
JP7008557 A2	19950113	JP19930152483	19930623
US5378241 A	19950103	US19930081791	19930623

Priority:

DE19920008414U 19920624 DE19929208414U 19920624 DE19935002150 19930616

Probable Assignee: HAINDL HANS DIPL ING DR MED 3015 WENNIGSEN DE

Assignee(s): (std): HAINDL HANS ; HAINDL HANS DIPL ING DR MED ; HANSU HAINDORU

Assignee(s): HAINDL HANS DR MED 30974 WENNIGSEN DE ; HAINDL HANS DR ; HAINDL HANS DIPL ING DR MED 3015 WENNIGSEN DE ; HAINDL HANS DIPL ING DRMED

Inventor(s): (std): HAINDL HANS ; HAINDL HANS DR ; HAINDL HANS DR MED ; HANSU HAINDORU

Inventor(s): HAINDL HANS DR MED 30974 WENNIGSEN DE

Designated states: AT DE ES FR GB IT NL SE

14) Family number: 11792359 (US5391152A)

© PatBase

Title: Catheter interlock assembly

Abstract: A catheter assembly comprising two elements each of which have a hub disposed at the proximal end thereof. The hubs are constructed so as to be complementary and rotatably engageable. When the hubs are engaged, the complementary construction of the hubs secures the axial alignment of the engaged hubs and inhibits an accidental rotational disengagement of the hubs.

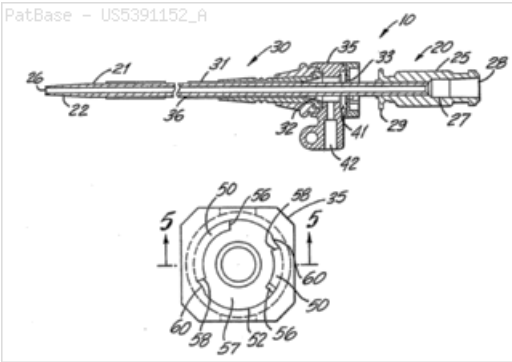
Classifications:

International (IPC 8-9): A61M25/00 A61M25/06 (Advanced/Invention);

A61M25/00 A61M25/06 (Core/Invention)

International (IPC 1-7): A61M25/00

CPC: A61M25/0097 A61M25/0606
European: A61M25/00V A61M25/06C
US: 604/165 604/165.04 604/280 604/533



Family:

Publication number	Publication date	Application number	Application date
US5391152 A	19950221	US19930030991	19930312

Priority:

US19930030991 19930312

Probable Assignee: MEDTRONIC INC

Assignee(s): (std): BARD INC C R

Assignee(s): C R BARD INC ; CR BARD INC ; MEDTRONIC AVE INC ; MEDTRONIC INC ; ARTERIAL VASCULAR ENGINEERING INC

Inventor(s): (std): PATTERSON FRANK V

15) Family number: 12545867 (US5517846A)

© PatBase

Title: Electronic vacuum sensor

Abstract: A disposable electronic vacuum sensor capable of detecting a relatively low vacuum pressure of about 0.04 to 0.05 inches of water. The sensor includes a body having an LED and an opening at one end, and a channel extending longitudinally into the body from the opening. A power source is housed within the body, and a pair of generally parallel first and second contact blades extend longitudinally through the channel. The first contact blade is attached to the upper surface of the channel and coupled to the LED, the LED is coupled the power source, and the power source is coupled to the second contact blade. The LED is activated by a high-sensitivity vacuum switch comprising the first and second contact blades and a thin flexible diaphragm extending longitudinally through the channel between the second contact blade and the lower surface of the channel. When the opening comes in contact with vacuum pressure, the pressure travels along the diaphragm and raises the diaphragm so that it contacts the second contact blade. The second contact blade is then moved upward by the diaphragm until it contacts the first contact blade, thereby completing a circuit between the LED and the power source and illuminating the LED to indicate vacuum pressure.

Classifications:

International (IPC 8-9): A61B5/03 (Advanced/Invention);

A61B17/34 (Advanced/Non-invention);

A61B5/03 (Core/Invention);

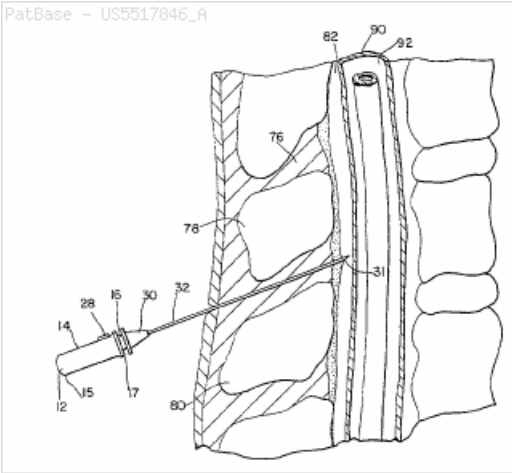
A61B17/34 (Core/Non-invention)

International (IPC 1-7): G01L27/00

CPC: A61B5/031 A61B17/3401

European: A61B5/03B K61B17/34B

US: 128/673 128/748 600/486 600/561 73/1.58 73/4R 73/723



Family:

Publication number	Publication date	Application number	Application date
US5517846 A	19960521	US19940198754	19940218

Priority:

US19940198754 19940218

Probable Assignee:

CAGGIANI CARLOS A

Assignee(s): (std):

CAGGIANI CARLOS A

Inventor(s): (std):

CAGGIANI CARLOS A

Title: Catheter guide wire introducing device and method

Abstract: A catheter guide wire introducing device for aspiration of a body part and insertion of a guide wire into the body part is provided. The catheter guide wire introducing device includes a flexible bulb. A fitting is located on the first end of the bulb. The fitting includes an internal chamber and first and second axially aligned passageways in fluid communication with the chamber. A third passageway is provided in fluid communication between the chamber and the interior of the cavity of the flexible bulb. An introducer needle having first and second ends and a lumen is provided. The first end of the needle is connected to the fitting such that the first passageway is in fluid communication with the lumen. A conduit having first and second ends and a passageway extending therethrough is also provided. The conduit is axially aligned with the introducer needle. The first end of the conduit is connected to the fitting such that the conduit passageway is in fluid communication with the second passageway. The conduit and the introducer needle are axially aligned. A guide wire penetrable seal assembly is connected to the second end of the conduit in fluid communication with the conduit passageway for preventing the passage of fluid from within the conduit and air from outside the conduit therethrough and for introduction of the guide wire into the conduit.

Classifications:

International (IPC 8-9): A61B17/34 A61M25/06 A61M25/08

A61M25/09 (Advanced/Invention);

A61M25/08 A61M25/09 (Advanced/Non-invention);

A61M25/06 A61M25/08 A61M25/09 (Core/Invention)

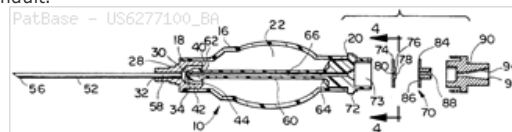
International (IPC 1-7): A61B17/34 A61B19/00 A61M1/00 A61M25/06

A61M25/08 A61M5/178

CPC: A61M25/0693

European: A61M25/06K

US: 604/167.01 604/167.03 604/212 604/217



Family:

Publication number	Publication date	Application number	Application date
AU199880619 A1	19990210	AU19980080619	19980609
DE69842829 D1	20121018	DE19986042829	19980609
EP0932369 A1	19990804	EP19980928935	19980609
EP0932369 A4	20041020	EP19980928935	19980609
EP0932369 B1	20120822	EP19980928935	19980609
JP2001500776 T2	20010123	JP19990507156T	19980609
JP3766110 B2	20060412	JP19990507156	19980609
US6277100 BA	20010821	US19970896192	19970717
WO9903417 A1	19990128	WO1998US11846	19980609

Priority:

US19970896192 19970717

EP19980928935 19980609

WO1998US11846 19980609

Probable Assignee: MEDICAL COMPONENTS INC

Assignee(s): (std): MEDICAL COMPONENTS INC

Assignee(s): MEDICAL COMPONENTS INC HARLEYSVILLE

Inventor(s): (std): J DANIEL RAULERSON ; RAULERSON J DANIEL ; SCHWEIKERT TIMOTHY M ; TIMOTHY M SCHWEIKERT

Inventor(s): SCHWEIKERT TIMOTHY M LEVITTOWN ; RAULERSON J DANIEL BREWTON ; RAULERSON J

Agent(s): LEMCKE BROMMER AND PARTNER PATENTANWALTE PARTNERSCHAFT MBB; LEMCKE BROMMER AND PARTNER

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 UZ VN YU ZW

Title: PRESSURIZABLE EPIDURAL SPACE IDENTIFICATION SYRINGE

Abstract: A syringe that can be positively pressurized via a one-way valve and illustrated by a pressure indicator is designed to be used with an epidural needle to identify epidural space and to protect the dura being punctured when a loss of positive pressure occurs. The inventive syringe housing having a plunger with a longitudinal bore for pressurization is connected to a pressure chamber via the one-way valve allowing air flow only into the pressurization chamber from the syringe housing. A needle is air-tightly connected to the pressurization chamber with a needle connecting device. A pressure indicator connected to the pressurization chamber objectively indicates the loss of positive pressure when the needle enters the epidural space. The positively pressurized air from the needle deflects the dura away from the needle tip and prevents dural puncture. Methods for detecting the epidural space and deflecting the dura using this inventive syringe are also provided.

Classifications:

International (IPC 8-9): A61B17/34 (Advanced/Invention);

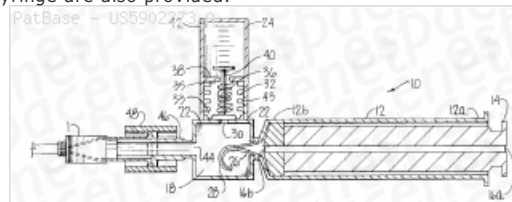
A61B17/34 (Core/Invention)

International (IPC 1-7): A61M5/00

CPC: A61B17/3401 A61B5/4896 A61B2090/0807

European: A61B17/34B K61B5/48Y6

US: 600/561 604/118



Family:

Publication number	Publication date	Application number	Application date
US5902273 A	19990511	US19980133634	19980813

Priority:

US19970062132P 19971015

US19980133634 19980813

Probable Assignee: YANG IAN Y

Assignee(s): YANG IAN Y ; YANG JAMES Z
Inventor(s): (std): YANG IAN Y ; YANG JAMES Z

18) Family number: 11664649 (US5935083A)

PatBase

Title: Device for body fluid pressure measurement

Abstract: A device for measuring body fluid pressure, such as blood pressure, muscle compartment pressure, and spinal column pressure, is herein described. An invasive implement is inserted into a body area, and a fluid path extends from the body area into a fluid channel in the device. A valve is used to control the flow of fluid through the device and a pressure sensor is placed adjacent to the fluid channel, with the pressure sensor and/or a sealant gel forming a portion of the fluid channel. With the valve closed, pressure builds in the fluid channel and the pressure sensor detects the resulting pressure, and a pressure transducer and supporting electronics converts and communicates the pressure measurement. With this device the pressure sensor can detect pressure without contacting the fluid, so therefore a pressure can be taken with a minimum of fluid extraction. If fluid extraction is desired, the valve is opened and fluid flows from the body area to a fluid port where the fluid may be collected.

Classifications:

International (IPC 8-9): A61B5/03 (Advanced/Invention);

A61B5/0215 (Advanced/Non-invention);

A61B5/03 (Core/Invention);

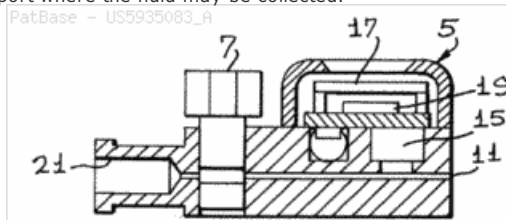
A61B5/0215 (Core/Non-invention)

International (IPC 1-7): A61B5/00

CPC: A61B5/0215 A61B5/032

European: A61B5/03D K61B5/0215

US: 600/488 600/561 604/158 604/506 604/51



Family:

Publication number	Publication date	Application number	Application date
US5935083 A	19990810	US19960675452	19960703

Priority:

US19960675452 19960703

Probable Assignee:

WILLIAMS PAUL A

Assignee(s): (std):

WILLIAMS PAUL A

Inventor(s): (std):

WILLIAMS PAUL A

19) Family number: 23089682 (US2003009180A)

PatBase

Title: VASCULAR HOLE CLOSURE DEVICE

Abstract: A device for closing an aperture in a vessel wall comprising an elongated member positionable inside the vessel against an internal opening of the aperture and having a dimension exceeding a dimension of the internal opening of the aperture to prevent egress of fluid through the aperture, and at least two curved legs positionable outside the vessel to help retain the elongated member in position.

Classifications:

International (IPC 8-9): A61B17/00 A61B17/03 A61B17/064 A61B17/08

A61B17/10 A61B17/12 A61D1/00 (Advanced/Invention);

A61B17/00 A61B17/03 A61B17/064 (Core/Invention)

International (IPC 1-7): A61B17/00 A61B17/00 A61B17/064 A61B17/08

A61B17/10 A61B17/12 A61M5/00 A61M5/178

CPC: A61B2017/00668 A61B2017/0641 A61B17/0401 A61B17/0644

A61B2017/00575 A61B2017/00592 A61B2017/00615 A61B17/0057

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European: A61B17/00P A61B17/064 K61B17/00P K61B17/00P11J

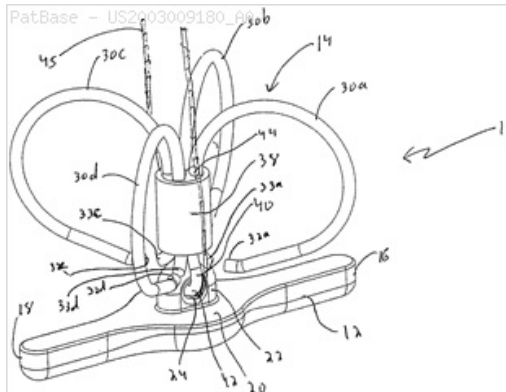
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US: 604/116 604/116P 604/60 606/142 606/144 606/144P 606/151

606/151P 606/151S 606/153 606/155 606/157 606/158 606/158S

606/213 606/213P 606/215



Family:

Publication number	Publication date	Application number	Application date
AU200073737 A1	20010417	AU20000073737	20000912
AU200073737 A5	20010417	AU20000073737	20000912
AU2003210767 AA	20030902	AU20030210767	20030131
AU2003210767 BB	20080515	AU20030210767	20030131
CA2381818 AA	20020312	CA20002381818	20000912
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CA2473451 AA	20040714	CA20032473451	20030131
CA2473451 C	20120327	CA20032473451	20030131
DE60033827 D1	20070419	DE20006033827	20000912
DE60033827 T2	20071220	DE20006033827T	20000912
DE60344784 D1	20131017	DE20036044784	20030131
EP1211983 A1	20020612	EP20000961842	20000912

EP1211983 B1	20070307	EP20000961842	20000912
EP1480567 A2	20041201	EP20030737579	20030131
EP1480567 B1	20130821	EP20030737579	20030131
ES2283316 T3	20071101	ES20000961842T	20000912
JP2005516659 T2	20050609	JP20030565330T	20030131
JP4335690 B2	20090930	JP20030565330T	20030131
US2003009180 AA	20030109	US20020163142	20020605
US2003093096 AA	20030515	US20020269899	20021011
US2003144695 AA	20030731	US20030345533	20030116
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US2005033326 AA	20050210	US20040847141	20040517
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US2010305588 AA	20101202	US20090655300	20091228
US2012065673 AA	20120315	US20110300866	20111121
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US8128653 BB	20120306	US20070893949	20070817
US8597324 BB	20131203	US20090655300	20091228
US9968345 BB	20180515	US20130082163	20131117
WO0119256 A1	20010322	WO2000US25009	20000912
WO0119256 C2	20021003	WO2000US25009	20000912
WO03065898 A2	20030814	WO2003US02934	20030131
WO03065898 A3	20040108	WO2003US02934	20030131
WO05115253 A2	20051208	WO2005US14948	20050429
WO05115253 A3	20060126	WO2005US14948	20050429

Priority:

US19990153736P	19990913	US20000659648	20000912	WO2000US25009	20000912
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Probable Assignee: REX MEDICAL LP

Assignee(s): (std): REX MEDICAL LP ; PETERS WALTER H ; REX MEDICAL L P ; REX MEDICAL ; TARMIN JAMES S ; MCGUCKIN JAMES F JR ; DEFONZO STEPHAN A ; BRIGANTI RICHARD T ; MCGUCKIN JR JAMES F

Assignee(s): REX MEDICAL LP CONSHOHOCKEN ; DATA RETURN LLC ; HINCHLIFFE PETER W J ; HINCHLIFFE PETER WJ ; MAURER CHRISTOPHER ; MAURER CHRISTOPHER W ; MCGUCKIN JAMES F

Inventor(s): (std): BRIGANTI RICHARD T ; DEFONZO STEPHAN A ; HINCHLIFFE PETER W J ; JAMES F ; MAURER CHRISTOPHER W ; MCGUCKIN JAMES F ; RICHARD R BRIGANTI ; TARMIN JAMES S ; WALTER H PETERS ; MCGUCKIN JR JAMES F ; PETER W ; PETERS WALTER H ; MCGUCKIN JAMES F JR ; MAURER CHRISTOPHER ; HINCHLIFFE PETER W J ; BRIGANTI RICHARD R

Inventor(s): BRIGANTI RICHARD ; DEFONZO STEPHAN ; BRIGANTI RICHARD R SCHWENKSVILLE ; JR JAMES F ; MCGUCKIN JAMES ; MCGUCKIN ; PETERS WALTER H DOWNINGTOWN ; TARMIN JAMES ; PETERS WALTER ; PETER W J HINCHLIFFE ; MCGUCKIN JR ; MCGUCKIN JAMES FJR ; MCGUCKIN JAMES F JR RADNOR ; JAMES F JR MCGUCKIN ; HINCHLIFFE PETER W J CAMPBELL ; HINCHLIFFE PETER WJ ; HINCHLIFFE PETER W

Agent(s): SPRUSON AND FERGUSON; MCFADDEN FINCHAM; OSLER HOSKIN AND HARCOURT LLP; LUEDCKE JOACHIM MORITZ DIPL ING; JACKSON DEREK CHARLES; REX MEDICAL; NEIL D GERSHON REX MEDICAL; NEIL D GERSHON CHIEF PATENT COUSEL; NEIL D GERSHON CHIEF PATENT COUNSEL; NEIL D GERSHON; GERSHON NEIL D; NEIL 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 KM 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

20) Family number: 28344065 (US2007142766A)

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Title: DETECTION APPARATUS AND METHOD

Abstract: A detection apparatus for, and a method of, detecting the location of the tip of a tubular element, in particular a needle, within a region, in particular one of the epidural space and the peritoneal cavity.

Classifications:

International (IPC 8-9): A61B17/00 A61B17/34 A61M1/00 A61M31/00

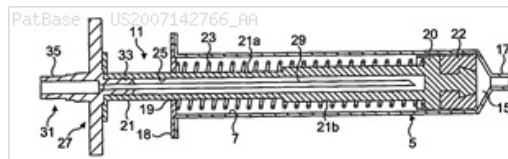
A61M5/00 A61M5/14 A61M5/20 A61M5/315 (Advanced/Invention);

A61B19/00 (Advanced/Non-invention);

A61M5/315 (Core/Invention);

A61B (Subclass/Non-invention)

International (IPC 1-7): A61B17/34
CPC: A61M5/1452 A61B17/3401 A61B2090/065
European: A61B17/34B K61B19/46H2
US: 604/121 604/121S 604/187 604/187P 604/187S 604/218 604/218P 604/246 604/246S 604/66 604/66P



Family:

Publication number	Publication date	Application number	Application date
AU2004208544 AA	20040812	AU20040208544	20040128
AU2009251218 AA	20100128	AU20090251218	20091224
CA2514651 AA	20050727	CA20042514651	20040128
CN1774212 A	20060517	CN200480007832	20040128
CN1774212 B	20101208	CN200480007832	20040128
EP1589885 A2	20051102	EP20040705842	20040128
GB200301934 A0	20030226	GB20030001934	20030128
IN00334DN2009 A	20100820	IN2009DN00334	20090115
IN03804DN2005 A	20070810	IN2005DN03804	20050826
IN233451 B	20090327	IN2005DN03804	20050826
JP2006516436 T2	20060706	JP20060502206T	20040128
JP4810421 B2	20111109	JP20060502206T	20040128
MXPA05008082 A1	20060317	MX2005PA08082	20040128
US2007142766 AA	20070621	US20040543754	20040128
US2007213674 AA	20070913	US20070706801	20070214
US2007232993 AA	20071004	US20070706780	20070214
US2007244446 AA	20071018	US20070706552	20070214
US8137312 BB	20120320	US20040543754	20040128
US8197443 BB	20120612	US20070706801	20070214
WO04066853 A2	20040812	WO2004GB00338	20040128
WO04066853 A3	20041125	WO2004GB00338	20040128
ZA200506846 A	20060830	ZA20050006846	20050826

Priority:

GB20030001934	20030128	AU20040208544	20040128	US20040543754	20040128
WO2004GB00338	20040128	US20060543754	20061003	US20070706552	20070214
US20070706780	20070214	US20070706801	20070214	AU20090251218	20091224

Probable Assignee: INDIGO MED PTE LTD

Assignee(s): (std): INDIGO ORB INC ; BALAKRISHNAN SWAMINATHAN ; HARTMAN ALBERT ; STRUL BRUNO ; SUNDAR SATISH

Assignee(s): INDIGO MED PTE LTD ; INDIGO ORG INC ; SATISH SUNDAR

Inventor(s): (std): SUNDAR SATISH ; STRUL BRUNO ; HARTMAN ALBERT ; BALAKRISHNAN SWAMINATHAN ; SWAMINATHAN SUNDAR SATISH BALA ; SWAMINATHAN BALAKRISHNAN ; SATISH SUNDAR ; ABERT HARTMAN

Inventor(s): SWAMINATHAN BALAKRISHNAN ; HARTMAN ABERT ; SUNDAR SATISH BALAKRISHNAN SWAMINATHAN ; ALBERT HARTMAN

Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD; GOWLING LAFLEUR HENDERSON LLP; PERMAN AND GREEN; MORRISON AND FOERSTER 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

21) Family number: 31809883 (US2005107861A)

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Title: KIT FOR IMPLANTATION OF THERAPY ELEMENTS

Abstract: This disclosure describes a kit to facilitate implantation of therapy elements into a patient, and techniques for percutaneously inserting therapy elements into a patient. In particular, embodiments of the invention are directed to techniques for percutaneously inserting two or more therapy elements into a patient via a single needle. In one embodiment, the invention is directed to a kit to facilitate implantation of therapy elements into a patient. The kit comprises a needle defining a lumen a first therapy element sized to pass through the lumen, and a second therapy element sized to pass through the lumen. The lumen is sized to receive both of the first and second therapy elements simultaneously. The first and second therapy elements are separate and not attached to one another such that distal ends of the first and second therapy elements can be positioned to provide therapy in distinct locations of the patient.

Classifications:

International (IPC 8-9): A61B17/34 A61N1/05 (Advanced/Invention)

International (IPC 1-7): A61B17/34 A61M5/32 A61N1/05

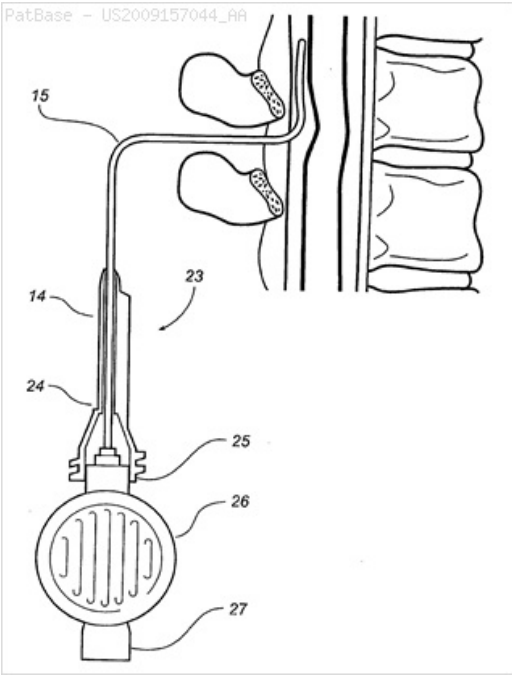
CPC: A61B17/3468 A61N1/0502 A61N1/0534 A61N1/0551

European: A61B17/34J A61N1/05A A61N1/05L K61N1/05K1D

US: 607/116 607/116P 607/117



604/264S 604/272 604/272S 604/512 604/512P 604/523 604/523S



Family:

Publication number	Publication date	Application number	Application date
AU2006284547 AA	20070301	AU20060284547	20060825
CA2619900 AA	20080220	CA20062619900	20060825
EP1917060 A1	20080507	EP20060774872	20060825
US2009157044 AA	20090618	US20060990952	20060825
WO07022599 A1	20070301	WO2006AU01243	20060825

Priority:

AU20050904666 20050826 AU20060284547 20060825 WO2006AU01243 20060825

Probable Assignee: NOVODURAL PTY LTD

Assignee(s): (std): LIYANAGAMA KEITH ; NOVODURAL PTY LTD ; THYSSEN TERRY

Inventor(s): (std): LIYANAGAMA KEITH ; THYSSEN TERRY

Inventor(s): KEITH LIYANAGAMA ; TERRY THYSSEN

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; OSLER HOSKIN AND HARCOURT LLP; HARRISON GODDARD FOOTE; FACTOR AND LAKE 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 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

23) Family number: 42024899 (US2011118702A)

© PatBase

Title: DEVICE FOR LOCATING EPIDURAL SPACE WHILE SAFEGUARDING AGAINST DURAL PUNCTURE THROUGH DIFFERENTIAL FRICTION TECHNIQUE

Abstract: A device for locating a cavity within two walls including a syringe including a syringe piston slideable in a first syringe barrel for discharging air or fluid contained in the first syringe barrel on forward movement of the syringe piston into the cavity, the first syringe barrel being attached to a hub of a needle cannula; and a frame which at least in part encases the syringe and which is solely connected to the back of the syringe piston.

Classifications:

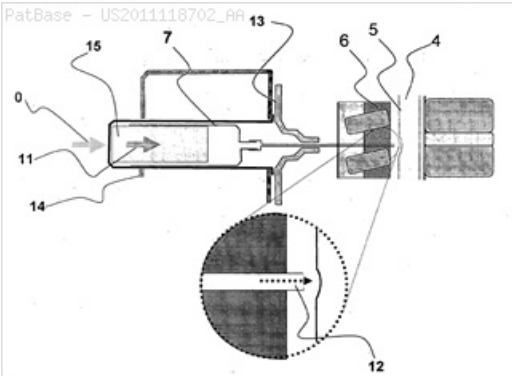
International (IPC 8-9): A61B17/00 A61B17/34 A61M5/00 A61M5/142 A61M5/145 A61M5/315 A61M5/46 (Advanced/Invention); A61B17/00 A61B17/34 (Core/Invention)

International (IPC 1-7): A61B1/00

CPC: A61B17/3401

European: A61B17/34B

US: 604/117 604/218 604/218S 604/506 604/506P



Family:

Publication number	Publication date	Application number	Application date
■ CN102083377 A	20110601	CN200980122975	20090612
■ CN102083377 B	20140723	CN200980122975	20090612
■ EP2317941 A2	20110511	EP20090766337	20090612
■ EP2317941 A4	20120808	EP20090766337	20090612
■ EP2317941 B1	20161207	EP20090766337	20090612
■ IN01491CH2008 A	20080718	IN2008CH01491	20080619
■ JP2011524779 T2	20110908	JP20110514203T	20090612
■ JP2014193406 A2	20141009	JP20140119718	20140610
■ JP5653350 B2	20150114	JP20110514203T	20090612
■ US2011118702 AA	20110519	US20090999473	20090612
■ US8715234 BB	20140506	US20090999473	20090612
■ WO09153807 A2	20091223	WO2009IN00340	20090612
■ WO09153807 A3	20100211	WO2009IN00340	20090612
■ WO09153807 A4	20100415	WO2009IN00340	20090612

Priority:

IN2008CH01491 20080619 JP20110514203 20090612 WO2009IN00340 20090612
JP20110514203T 20090612

Probable Assignee: B BRAUN MELSUNGEN AG

Assignee(s): (std): BETHI RAVINDAR ; BETHI RAVINDER ; BRAUN MELSUNGEN AG ; RAVINDAR BETHI ; RAVINDER BETHI

Assignee(s): B BRAUN MELSUNGEN AG

Inventor(s): (std): BETHI RAVINDER ; RAVINDER BETHI ; RAVINDAR BETHI ; BETHI RAVINDAR

Agent(s): ARTH HANS LOTHAR; YOSHIZAWA HIROSHI; OKABE YUZURU; TAKAHASHI SEIICHIRO; OCHI TAKAO; MATSUI TAKAO; RATNERPRESTIA; VISHWANATH RAMESH BABU

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

24) Family number: 42069115 (US2008183175A)

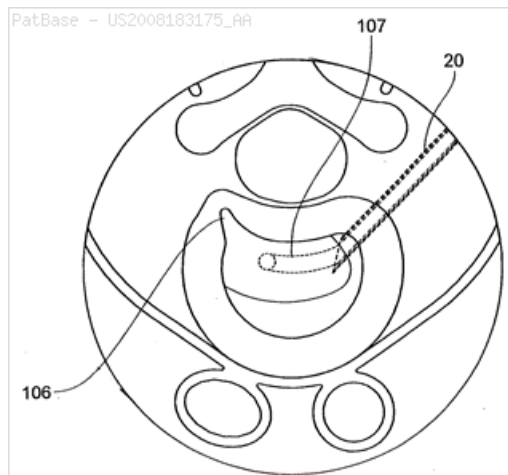
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Title: STYLI USED TO POSITION DEVICE FOR CARRYING OUT SELECTIVE DISCECTOMY

Abstract: A set of styli comprised of a shaped memory or elastic metal are disclosed wherein each stylus has a different preformed curvatures for use with a cutting device for performing a selective discectomy. The device is inserted at a point chosen from contralateral, anterior or anterolateral relative to a herniation site. Once the cutting device is inserted its cutting window is moved to the desired position by inserting a first stylus having an appropriate curvature and moving the device, removing the stylus, inserting a second stylus with a different curvature relative to the first stylus before or after moving the device. By using a plurality of styli with different curvatures and using positioning movements the cutting window is positioned at the site of herniation and a selective discectomy is carried out.

Classifications:

International (IPC 8-9): A61B1/00 A61B1/12 A61B17/00 A61B17/32 A61B19/00 (Advanced/Invention); A61B1/00 A61B1/12 A61B17/00 A61B17/32 A61B19/00 (Core/Invention)
CPC: A61B17/3421 A61B90/37 A61B2017/003 A61B2017/00867 A61B2017/2905 A61B17/320783 A61B2017/00261
European: A61B17/3207S A61B17/34G4 K61B17/00E1D K61B17/00E3G K61B17/00S12 K61B17/29F6 K61B19/52H
US: 600/129 600/129S 600/139 600/139S 600/156 600/156S 600/160 600/160S 606/130 606/130P 606/167 606/170 606/84



Family:

Publication number	Publication date	Application number	Application date
■ EP2109401 A2	20091021	EP20080724773	20080123
■ EP2109411 A2	20091021	EP20080713252	20080123
■ EP2109412 A1	20091021	EP20080724766	20080123
■ US2008183175 AA	20080731	US20070848562	20070831
■ US2008183192 AA	20080731	US20070848564	20070831
■ US2008221605 AA	20080911	US20070848565	20070831
■ US8414587 BB	20130409	US20070848562	20070831
■ WO08094436 A1	20080807	WO2008US00913	20080123
■ WO08094439 A2	20080807	WO2008US00920	20080123
■ WO08094439 A3	20080925	WO2008US00920	20080123
■ WO08094444 A2	20080807	WO2008US00938	20080123

Priority:

US20070886860P 20070126	US20070887997P 20070202	US20070892498P 20070301
US20070896226P 20070321	US20070945518P 20070621	US20070945519P 20070621
US20070945521P 20070621	US20070848562 20070831	US20070848564 20070831
US20070848565 20070831	WO2008US00920 20080123	WO2008US00938 20080123
WO2008US00913 20080123		

Probable Assignee: LAURIMED LLC

Assignee(s): (std): CHRISTIAN JEFF ; DUBOIS BRIAN R ; LAURIMED LLC ; SAAL JEFFREY ALAN ; SAAL JOEL STUART

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Agent(s): DUXBURY STEPHEN; BOZICEVIC FIELD AND FRANCIS LLP; LEVINE BAGADE HAN LLP; BOZICEVIC KARL

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

25) Family number: 42074540 (US2008188826A)

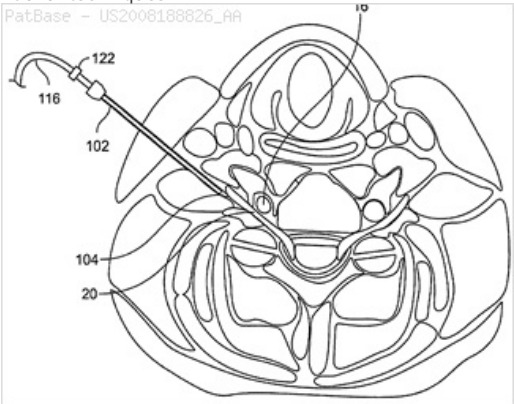
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Title: METHODS AND DEVICES FOR TREATING TISSUE

Abstract: Device and method are provided for diagnosing and treating diseases and injuries to the spine by injecting drugs into the diseased or injured area. The device and method of the subject invention provide improvements to patient and operator safety, along with ease-of-use and convenience improvements over conventional techniques.

Classifications:

International (IPC 8-9): A61B17/34 A61B6/00 A61M25/00 A61M31/00 A61M5/158 A61M5/178 A61M5/31 A61M5/32 (Advanced/Invention); A61B17/34 A61M25/00 A61M31/00 A61M5/14 A61M5/32 (Core/Invention) CPC: A61B2017/00331 A61M2025/0007 A61B2017/00867 A61B2090/034 A61B17/3401 European: A61B17/34B K61B17/00S12 K61B19/30F2 K61M25/00E US: 600/435 600/435P 604/158 604/164.01 604/170.01 604/170.03 604/500 604/506 604/512 604/512P 604/513 604/513S



Family:

Publication number	Publication date	Application number	Application date
AU2008210285 AA	20080807	AU20080210285	20080201
CA2677057 AA	20090729	CA20082677057	20080201
EP2114494 A2	20091111	EP20080728858	20080201
JP2010517636 T2	20100527	JP20090548474T	20080201
US2008188826 AA	20080807	US20070838675	20070814
US2008188827 AA	20080807	US20070838692	20070814
US2011306879 AA	20111215	US20110213016	20110818
US8088119 BB	20120103	US20070838692	20070814
WO08095177 A2	20080807	WO2008US52835	20080201
WO08095177 A3	20081023	WO2008US52835	20080201

Priority:

US20070898953P 20070201	US20070838675 20070814	US20070838692 20070814
WO2008US52835 20080201	US20110213016 20110818	

Probable Assignee: LAURIMED LLC

Assignee(s): (std): LAURIMED LLC ; SAAL JEFFREY A ; SAAL JEFFREY ALAN ; SAAL JOEL S ; SAAL JOEL STUART ; DUBOIS BRIAN R ; DUBOIS BRIAN ROBERT

Inventor(s): (std): DUBOIS BRIAN R ; DUBOIS BRIAN ROBERT ; SAAL JEFFREY A ; SAAL JEFFREY ALAN ; SAAL JOEL S ; SAAL JOEL STUART

Inventor(s): JEFFREY A SAAL ; JOEL S SAAL ; BRIAN R DUBOIS

Agent(s): FB RICE; FB RICE PTY LTD; BORDEN LADNER GERVAIS LLP; PRICE NIGEL JOHN KING; LEVINE BAGADE HAN LLP; BAGADE SANJAY S 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

26) Family number: 43257493 (US2009131832A)

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Title: ELECTRONIC SYRINGE WITH SAFETY SYSTEM FOR SPINAL INJECTION

Abstract: A device for locating an epidural space. The device includes a connector for forming a hermetically sealed connection with a needle. An air vessel is formed by an air tank, a diaphragm, and a space in the needle when the needle is attached to the connector. The device includes a pressure sensor configured to detect the air pressure in the air vessel. An actuator is coupled to a switch and positioned adjacent to the diaphragm to compress the diaphragm when the switch is actuated by a user causing a reduction in volume in the air vessel. A circuit coupled to the pressure sensor and to an alarm detects a signal indicative of the air pressure sensed by the pressure sensor. The circuit compares the signal to a threshold and outputs a first state to the alarm when the pressure is above the threshold, and outputs a second state to the alarm when the pressure falls below the threshold.

Classifications:

International (IPC 8-9): A61B17/34 A61B5/103

G08B23/00 (Advanced/Invention);

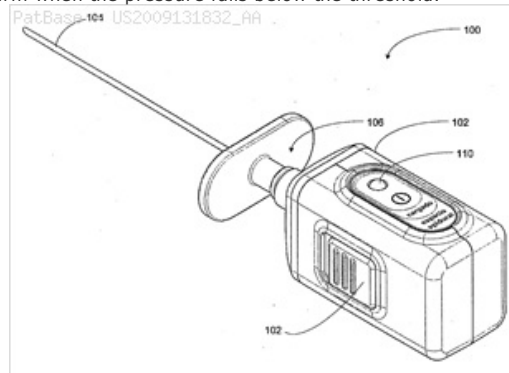
A61B5/103 G08B23/00 (Core/Invention)

International (IPC 1-7): A61B17/34

CPC: A61B17/3401

European: A61B17/34B

US: 340/573.1 600/587



Family:

Publication number	Publication date	Application number	Application date
EP2223662 A1	20100901	EP20080852740	20081120
IN01026MN2010 A	20100917	IN2010MN01026	20100517
MX2010005507 A1	20110223	MX20100005507	20100519
US2009131832 AA	20090521	US20080275162	20081120
WO09066972 A1	20090528	WO2008MX00158	20081120

Priority:

US20070989333P 20071120
MX20100005507 20100519

US20080275162 20081120

WO2008MX00158 20081120

Probable Assignee: ALANDRA MEDICAL SAPI DE CV

Assignee(s): (std): INNOVAMEDICA S A P I D E C V

Assignee(s): INNOVAMEDICA SAPI DE CV ; ALANDRA MEDICAL SAPI DE CV

Inventor(s): (std): AGUILAR JULIO CA SAR SORIA ; ALQUICIRA ADRIANA BECERRIL ; BECERRIL ALQUICIRA ADRIANA ; DEZ MIROSLAVA CAROLINA RODRIGUEZ BERMA ; OZ LYDIA ORANDAY MUA ; PAREDES ALEJANDRA SILVA ; ROCK EMILIO SACRISTA N ; SORIA AGUILAR JULIO CESAR ; SILVA PAREDES ALEJANDRA ; SACRISTAN ROCK EMILIO ; RODRIGUEZ BERMUDEZ MIROSLAVA CAROLINA ; ORANDAY MUNOZ LYDIA ; BECERRIL ALQUICIRA ADRIANA

Inventor(s): ADRIANA BECERRIL ALQUICIRA ; RODRIGUEZ BERMUDEZ MIROSLAVA CAROLINASACRISTAN... ; RODRIGUEZ BERMUDEZ ; SORIA AGUILAR ; EMILIO SACRISTA N ROCK ; JULIO CA SAR SORIA AGUILAR ; LYDIA ORANDAY MUA OZ ; MIROSLAVA CAROLINA RODRIGUEZ BERMA DEZ ; BECERRIL ALQUICIRA ; ALEJANDRA SILVA PAREDES

Agent(s): MCLEAN ROBERT ANDREAS; THE ECLIPSE GROUP LLP; ECLIPSE GROUP LLP; PARDAVELL JUAREZ MARIA ANGELICA

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

27) Family number: 43811582 (US2009259126A)

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Title: METHODS AND DEVICES FOR DELIVERING INJECTIONS

Abstract: Device and method are provided for diagnosing and treating diseases and injuries to the spine by injecting drugs into the diseased or injured area. The device and method of the subject invention provide improvements to patient and operator safety, along with ease-of-use and convenience improvements over conventional techniques.

Classifications:

International (IPC 8-9): A61B17/34 A61B6/00 A61M19/00 A61M25/06

A61M25/088 A61M31/00 (Advanced/Invention);

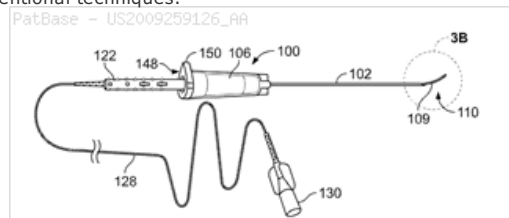
A61B6/00 A61M19/00 A61M25/06 A61M25/088 (Core/Invention)

CPC: A61B17/3478 A61B2017/00331 A61B17/3401 A61M25/0041

A61M25/007 A61M25/065

European: A61B17/34B K61M25/00R2 K61M25/00T10C K61M25/06E

US: 600/433 600/433P 604/272 604/272S 604/506 604/506S 604/508 604/512 604/512S



Family:

Publication number	Publication date	Application number	Application date
AU2009231645 AA	20091008	AU20090231645	20090402
CA2720452 AA	20091008	CA20092720452	20090402

EP2265314 A1	20101229	EP20090728580	20090402
EP2265314 A4	20130904	EP20090728580	20090402
US2009259126 AA	20091015	US20090417165	20090402
US8277437 BB	20121002	US20090417165	20090402
WO09124192 A1	20091008	WO2009US39305	20090402

Priority:

US20080123028P 20080402 US20090417165 20090402 WO2009US39305 20090402

Probable Assignee: LAURIMED LLC

Assignee(s): (std): DUBOIS BRIAN ROBERT ; LAURIMED LLC ; NIELSEN JAMES T ; SAAL JEFFREY ALAN ; SAAL JOEL STUART

Inventor(s): (std): DUBOIS BRIAN ROBERT ; NIELSEN JAMES T ; SAAL JEFFREY ALAN ; SAAL JOEL STUART

Inventor(s): BRIAN ROBERT DUBOIS ; JAMES T NIELSEN ; JEFFREY ALAN SAAL ; JOEL STUART SAAL

Agent(s): FB RICE; FB RICE PTY LTD; DUXBURY STEPHEN; LEVINE BAGADE HAN LLP; BAGADE SANJAY S

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

28) Family number: 48343829 (US2011046477A)

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Title: VASCULAR ACCESS METHODS AND DEVICES

Abstract: Methods and devices for detecting positioning of a probe in a tissue of a patient. A method can include providing a detection device; advancing a device coupled probe through the tissue of the patient and toward the patient's target tissue; detecting a change in pressure about the distal portion of the coupled probe during advancing, where the detected pressure change indicates probe positioning in a vein or artery of the patient; outputting the detected pressure change or indication of probe positioning to a visual display.

Classifications:

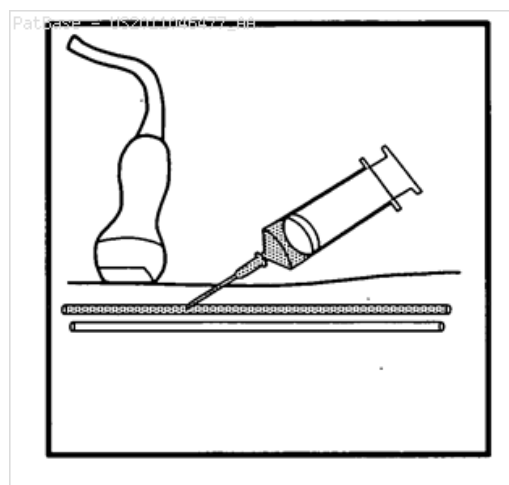
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A61B19/00 A61B5/145 A61B8/00 A61B90/00 (Advanced/Non-invention)

CPC: A61B5/065 A61B2090/065 A61B5/4887 A61B5/0006 A61B5/0205 A61B5/0408 A61B5/044 A61B5/14542 A61B5/742 A61B5/0215 A61B5/036 A61B5/4896 A61B2019/465 A61B2090/034 A61B5/032 A61B5/4821 A61B5/4839 A61B5/489 A61B8/0833 A61B8/4472 A61B17/3401 A61B2090/064 A61M5/16854 A61M5/42 A61M5/427 A61M5/46 A61M5/484 A61M5/486 A61M25/06 A61M25/0693

European: A61B17/34B A61B5/0215 A61B5/03D A61B5/03H A61B5/48D A61B5/48J2 A61B5/48Y2 A61B8/08H A61M25/06 A61M25/06K A61M5/168D4 A61M5/42 A61M5/42D A61M5/46 A61M5/48C A61M5/48D K61B17/34B K61B19/46H K61B19/46H2 K61B8/44N8

US: 1/1 600/301 600/364 600/424 600/424P 600/486 600/486P 600/487 600/487S 600/509 600/561 600/561S 600/587 600/587P 604/272 604/272S



Family:

Publication number	Publication date	Application number	Application date
CA2770442 AA	20120208	CA20102770442	20100819
CN102596023 A	20120718	CN201080047949	20100819
CN102596023 B	20150506	CN201080047949	20100819
CN104921728 A	20150923	CN201510160858	20100819
CN104921728 B	20171226	CN201510160858	20100819
EP2467057 A1	20120627	EP20100810289	20100819
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JP2013502269 T2	20130124	JP20120525532T	20100819
JP5756463 B2	20150729	JP20120525532T	20100819
US2011046477 AA	20110224	US20100806798	20100819
US2011054353 AA	20110303	US20100806747	20100819
US2011060229 AA	20110310	US20100806809	20100819
US2015025363 AA	20150122	US20140322015	20140702
US2016113576 AA	20160428	US20140523046	20141024
US2016374612 A9	20161229	US20140523046	20141024
US8814807 BB	20140826	US20100806747	20100819
US8926525 BB	20150106	US20100806809	20100819
US9358038 BB	20160607	US20140322015	20140702
US9888881 BB	20180213	US20140523046	20141024
WO11022073 A1	20110224	WO2010US02305	20100819

Priority:

US20090235004P 20090819 US20100300794P 20100202 CN201080047949 20100819
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WO2010US02305 20100819 US20140322015 20140702 US20140523046 20141024

Probable Assignee: MIRADOR BIOMEDICAL

Assignee(s): (std): HULVERSHORN JUSTIN ; MIRADOR BIOMEDICAL ; SCHMIDT KARL ; SWARTZ DOUGLAS

Inventor(s): (std): DOUGLAS SWARTZ ; HULVERSHORN JUSTIN ; JUSTIN HULVERSHORN ; KARL SCHMIDT ; SCHMIDT KARL ; SWARTZ DOUGLAS

Agent(s): SMART AND BIGGAR; DONALD JENNY SUSAN; TOWNSEND AND TOWNSEND AND CREW LLP; WILSON SONSINI GOODRICH AND ROSATI; BROOKS KUSHMAN PC; ROSATO MICHAEL T 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

29) Family number: 50438298 (US2012004595A)

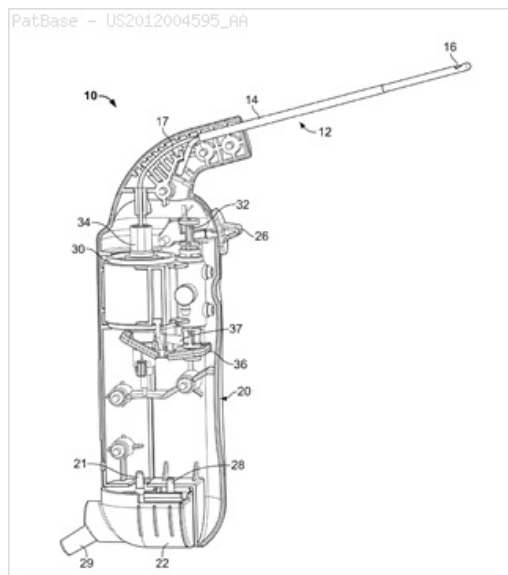
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Title: DEVICES AND METHODS FOR CUTTING AND EVACUATING TISSUE

Abstract: Various medical devices and methods for cutting and/or evacuating tissue are provided. The devices and methods may utilize a reciprocating mechanism or motor powered by suction from a vacuum source. The medical devices and methods may be used on tissue in various regions of a patient's body and for treating various conditions, e.g., for performing a polypectomy or discectomy.

Classifications:

International (IPC 8-9): A61B10/02 A61B17/00 A61B17/16 A61B17/22 A61B17/24 A61B17/32 A61B17/3211 A61B17/42 A61B17/58 A61B18/04 A61B18/08 A61B18/12 A61B18/14 A61B18/18 A61M1/00 A61M37/00 (Advanced/Invention); A61B17/00 A61B18/00 A61B18/08 A61B18/14 (Advanced/Non-invention)
CPC: A61B18/1485 A61B17/1671 A61B18/082 A61B17/24 A61B2017/00544 A61B2017/00787 A61B18/148 A61B2018/00196 A61B2018/00327 A61B2018/0063 A61B17/32002 A61B17/32 A61B2017/00261 A61B2017/00269 A61B2017/00561 A61B2018/00595 A61B2018/00601 A61B2017/320008 A61B2017/320028 A61B2017/320064 A61B17/320016 A61B2017/320032 A61B2017/00946
European: A61B17/32E2 K61B17/00E1D K61B17/00E1M K61B17/00N10 K61B17/32A2 K61B17/32E2R K61B17/32T
US: 600/566 604/22 604/22P 606/115 606/115S 606/170 606/171 606/171S 606/49 606/49S 606/79 606/79S



Family:

Publication number	Publication date	Application number	Application date
AU2011272778 AA	20120105	AU20110272778	20110630
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BR112012033572 A2	20161129	BR20121133572	20110630
BR112015003476 A2	20170704	BR20151103476	20130104
CA2804200 AA	20121228	CA20112804200	20110630
CA2804200 C	20170613	CA20112804200	20110630
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CN104736075 A	20150624	CN201380054542	20130104
CN104736075 B	20180508	CN201380054542	20130104
DE602011018786 D1	20150924	DE201160018786T	20110630
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EP2588011 A4	20140409	EP20110801448	20110630
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EP2884914 A4	20160330	EP20130829375	20130104
EP2982320 A1	20160210	EP20150180034	20110630
ES2545816 T3	20150916	ES20110801448T	20110630
IN00091CN2013 A	20150703	IN2013CN00091	20130103
IN01878DN2015 A	20160831	IN2015DN01878	20150309
JP2013530774 T2	20130801	JP20130518739T	20110630
JP2015171633 A2	20151001	JP20150136958	20150708
JP5778271 B2	20150916	JP20130518739T	20110630
SG186867 A1	20130228	SG20120096418	20110630

US2012004595 AA	20120105	US20110174416	20110630
US2012283742 AA	20121108	US20120550407	20120716
US2013046199 AA	20130221	US20120657773	20121022
US2013211438 AA	20130815	US20130734878	20130104
US2013310834 AA	20131121	US20130941267	20130712
US2014081266 AA	20140320	US20130091859	20131127
US2015150580 AA	20150604	US20140524957	20141027
US8292909 BA	20121023	US20120550407	20120716
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US8657842 BB	20140225	US20130941267	20130712
US8685052 BB	20140401	US20130734878	20130104
US8840632 BB	20140923	US20120657773	20121022
US8882793 BB	20141111	US20130091859	20131127
US9532796 BB	20170103	US20140524957	20141027
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WO14028046 A1	20140220	WO2013US20400	20130104

Priority:

US20100360429P	20100630	US20100377883P	20100827	AU20110272778	20110630
EP20110801448	20110630	JP20130518739	20110630	JP20130518739T	20110630
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US20120684598P	20120817	US20120707800P	20120928	US20120657773	20121022
US20130734878	20130104	WO2013US20400	20130104	US20130941267	20130712
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JP20150136958	20150708				

Probable Assignee: MYROMED LLC

Assignee(s): (std): DUBOIS BRIAN R ; GORDON ALEXANDER ; LAURIMED LLC ; MYROMED LLC ; NIELSEN JAMES T

Assignee(s): LAURIMED LLC REDWOOD CITY

Inventor(s): (std): NIELSEN JAMES T ; GORDON ALEXANDER ; DUBOIS BRIAN R ; JAMES T NIELSEN ; BRIAN R DUBOIS ; ALEXANDER GORDON

Inventor(s): DUBOIS BRIAN R REDWOOD CITY ; GORDON ALEXANDER MENLO PARK ; NIELSEN JAMES T SAN FRANCISCO

Agent(s): FB RICE; FB RICE PTY LTD; BORDEN LADNER GERVAIS LLP; KRAUS AND WEISERT PATENTANWAELTE PARTGMBB; PRICE NIGEL JOHN KING; UNGRIA JAVIER; LEVINE BAGADE HAN LLP; GIOVANNETTI STEVEN 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 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

30) Family number: 51257085 (DE202012100925U1)

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Title: FALTENBALGSPRITZE ZUR AUFFINDUNG DES EPIDURALRAUMS MITTELS DIFFERENTIELLER WIDERSTANDSTECHNIK ZUM SCHUTZ VOR EINER DURALPUNKTION FALTENBALGSPRITZE FOR DISCOVERY epidural space BY DIFFERENTIAL RESISTANCE TECHNOLOGY TO PREVENT AN DURALPUNKTION (Machine translation)

Abstract: Source: DE202012100925U1 [DE] Vorrichtung zur sicheren Injektion in einen von zwei festen gegenueberliegenden Waenden umgebenen Koerperhohlraum, die folgendes umfasst: eine Faltenbalgspritze (7) zur Befuellung mit Injektionsmaterial, die an ihrem Vorderende einen Adapter (8) und an ihrem Hinterende eine Hartscheibe (9) aufweist, in die ein Fuellventil (10) eingelassen ist; einen Gleitrahmen (13), der die Faltenbalgspritze (7) zumindest teilweise umgibt und mit dem die Faltenbalgspritze (7) ueber die Hartscheibe (9) in Verbindung s5) befindet; und eine Epiduralnadel (11), die auf den Adapter (8) der Faltenbalgspritze (7) aufgesetzt wird und deren Spitze durch eine Durchlassoeffnung aus dem Schutzblock (15) frei beweglich herausragt.

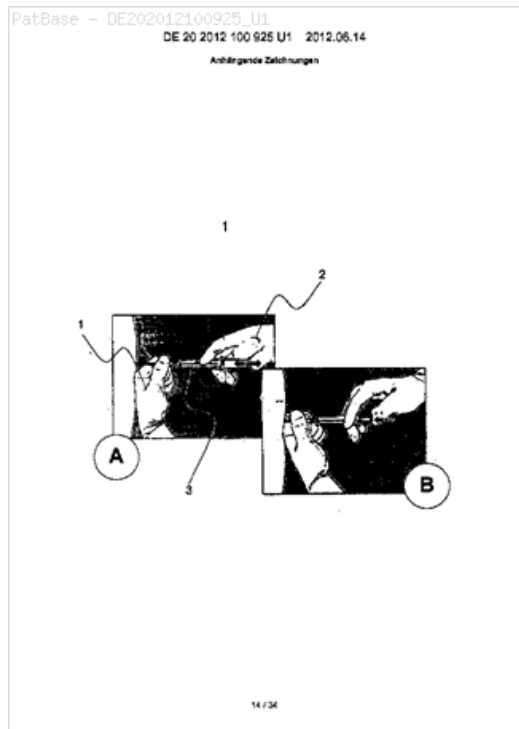
Machine translation: An apparatus for injection into a solid of two opposite walls surrounded Koerperhohlraum, comprising: a Faltenbalgspritze (7) for the filling injection material, which at its front end an adapter (8) and at its rear end, a hard disk (9), into which a filling valve (10) is introduced; a slide frame (13) connecting the Faltenbalgspritze (7) surrounding at least partially, and with which the Faltenbalgspritze (7) by is the hard disk (9) in conjunction s5), and an epidural needle (11) which is placed on the adapter (8) of the Faltenbalgspritze (7) and their tip by a passage opening from the protection block (15) protrudes freely movable.

Classifications:

International (IPC 8-9): A61M5/31 (Advanced/Invention)

CPC: A61B17/3401 A61B90/03

European: A61B17/34B K61B19/30



Family:

Publication number	Publication date	Application number	Application date
DE202012100925 U1	20120614	DE201220100925U	20120314

Priority:

DE201220100925U 20120314

Probable Assignee: BETHI RAVINDAR

Assignee(s): (std): BETHI RAVINDAR ; BRAUN MELSUNGEN AG

Assignee(s): B BRAUN MELSUNGEN AG ; BETHI

31) Family number: 52144494 (CN102715937A)

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Title: EPIDURAL SPACE PUNCTURE LOCATION INDICATOR

Abstract: The invention relates to the technical field of epidural space puncture location, in particular to an epidural space puncture location indicator. The epidural space puncture location indicator comprises a needle core and a needle core peduncle, wherein the needle core is a hollow tube provided with a tube cavity running through the needle core; the upper end part of the needle core is connected with the needle core peduncle with the cavity; and the lower end of the needle core peduncle is connected with an observation tube made of a transparent material. When the epidural space puncture location indicator is used, a proper amount of liquid is injected into the observation cavity of the observation tube to form a liquid column; when a puncture needle reaches the epidural space, the epidural space has negative pressure, and the liquid column moves under the action of pressure difference, so that a user can know that the puncture needle reaches the epidural space and stops inserting the needle. In the operation process of the location indicator, the needle core does not need to be drawn out repeatedly and connected with a wave tube or a syringe for repeated measurement location, so the operation complexity is reduced, the puncture efficiency is improved, error is reduced and the effect is obvious for a new learner. The epidural space puncture location indicator can judge whether the puncture needle reaches the epidural space or not in the needle inserting process so as to increase the accurate degree of puncture.

Classifications:

International (IPC 8-9): A61B17/34 A61B19/00 (Advanced/Invention)

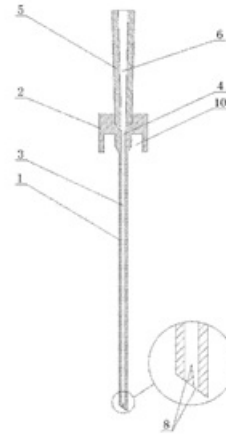


图 1

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Family:

Publication number	Publication date	Application number	Application date
■ CN102715937 A	20121010	CN201210227093	20120703
■ CN102715937 B	20150107	CN201210227093	20120703
■ CN202665704 U	20130116	CN201220318040U	20120703

Priority:

CN201210227093 20120703 CN201220318040U 20120703

Probable Assignee:

LUO YONGWEN

Assignee(s): (std):

LUO YONGWEN ; YONGWEN LUO

Inventor(s): (std):

LUO YONGWEN ; YONGWEN LUO

32) Family number: 54554512 (US2013218186A)

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Title: VACUUM POWERED ROTARY DEVICES AND METHODS

Abstract: The present devices and methods relate generally to vacuum or suction powered medical devices and methods for cutting, resecting, excising, morcellating and/or evacuating tissue from various regions of a patient's body, in certain variations, the devices may produce a rotational motion by converting a linear reciprocating motion to a rotational motion, causing a cutting shaft or other tool to rotate to perform work on a tissue in various regions of the body.

Classifications:

International (IPC 8-9): A61B10/00 A61B17/14 A61B17/32 A61B17/3205 A61B18/14 A61B5/00 (Advanced/Invention);

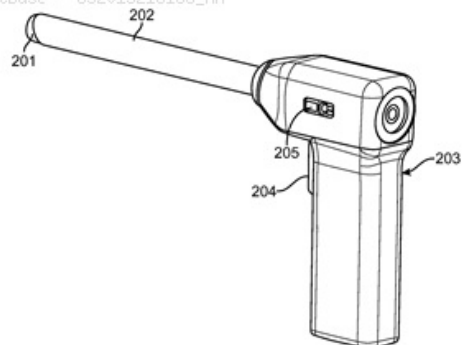
A61B17/00 A61B18/00 (Advanced/Non-invention)

CPC: A61B18/148 A61B17/32053 A61B2017/320064 A61B17/32 A61B2017/0023 A61B2018/00577 A61B2018/00595 A61B17/32002

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US: 606/167 606/180 606/41

PatBase - US2013218186_AA

**Family:**

Publication number	Publication date	Application number	Application date
■ US2013218186 AA	20130822	US20130734828	20130104
■ US2015201995 AA	20150723	US20150673063	20150330
■ US2017340378 AA	20171130	US20170679531	20170817
■ US2018153611 AA	20180607	US20170684653	20170823
■ US9763731 BB	20170919	US20150673063	20150330
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Priority:

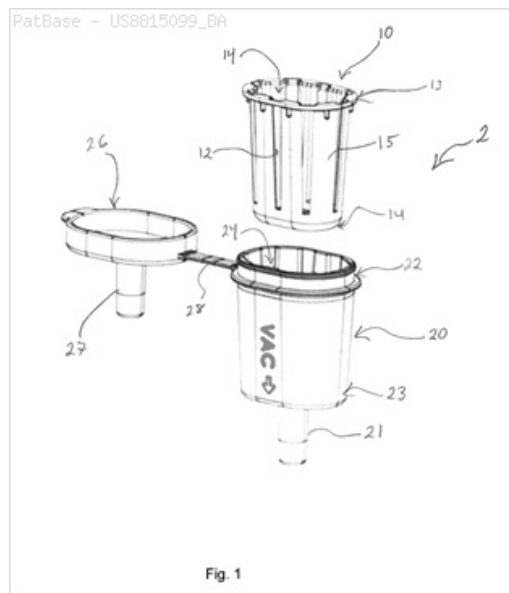
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Probable Assignee: MYROMED LLC**Assignee(s):** (std): DUBOIS BRIAN R ; GORDON ALEXANDER ; LAURIMED LLC ; MYROMED LLC ; NIELSEN JAMES T**Inventor(s):** (std): NIELSEN JAMES T ; GORDON ALEXANDER ; DUBOIS BRIAN R**Agent(s):** LEVINE BAGADE HAN LLP; GIOVANNETTI STEVEN 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 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**33) Family number: 57229224** (US8815099B)

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Title: DEVICES AND METHODS FOR FILTERING AND/OR COLLECTING TISSUE**Abstract:** Various devices and methods for filtering and/or collecting tissue which has been cut or resected from various regions of a patient's body are described herein. In certain variations, a filter or tissue collection chamber may include various components, which allow for the removal or separation of tissue from a fluid medium and for the collection of the tissue within the filter or tissue collection chamber.**Classifications:****International (IPC 8-9):** A61M1/00 B01D29/11 B01D35/02

B01D37/00 (Advanced/Invention)

CPC: A61M1/0056 A61B10/0283**US:** 210/416.1 210/455 210/457 210/488 210/767 210/787 604/190 604/406**Family:**

Publication number	Publication date	Application number	Application date
US8815099 BA	20140826	US20140160095	20140121

Priority:

US20140160095 20140121

Probable Assignee: MYROMED LLC**Assignee(s):** (std): LAURIMED LLC**Assignee(s):** MYROMED LLC**Inventor(s):** (std): DUBOIS BRIAN R ; GORDON ALEXANDER ; NIELSEN JAMES T**Agent(s):** LEVINE BAGADE HAN LLP**34) Family number: 58128673** (US2014378904A)

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Title: APPARATUS FOR HANGING DROP DETECTION OF EPIDURAL SPACE PENETRATION**Abstract:** The invention provides improved apparatuses and related methods for the detection of needle penetration into negative pressure corporal spaces such as the epidural space. In one aspect, the invention provides a needle hub that includes a fluid reservoir chamber and a plunger engaged therewith, so that insertion of the plunger into the chamber displaces fluid causing a hanging drop to form.**Classifications:****International (IPC 8-9):** A61B17/34 A61M25/01 A61M5/00 A61M5/158

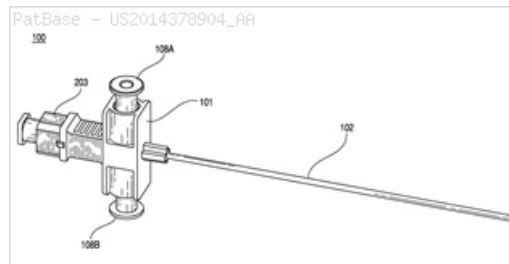
A61M5/32 A61M5/42 A61M5/46 (Advanced/Invention);

A61B17/00 (Advanced/Non-invention)

CPC: A61M5/158 A61M25/0102 A61M2005/1587 A61B2017/00477

A61B17/3401 A61M5/3293 A61M5/427 A61M5/46 A61M2205/13

US: 1/1 604/164.01 604/167.01 604/167.02 604/256 604/272



Family:

Publication number	Publication date	Application number	Application date
EP3021892 A1	20160525	EP20140817208	20140624
EP3021892 A4	20170426	EP20140817208	20140624
US2014378904 AA	20141225	US20140313636	20140624
US2014378905 AA	20141225	US20140313709	20140624
US9144436 BB	20150929	US20140313636	20140624
WO14210066 A1	20141231	WO2014US43955	20140624
WO14210069 A2	20141231	WO2014US43958	20140624
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Priority:

US20130838786P 20130624 US20140313636 20140624 US20140313709 20140624
WO2014US43955 20140624

Probable Assignee: SENATORE THOMAS A

Assignee(s): (std): SENATORE THOMAS A

Inventor(s): (std): SENATORE THOMAS A

Agent(s): CALLAGHAN DAYLE ANNE; PAUL; DIAMOND LAW OFFICE LLC; DIAMOND PAUL

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

35) Family number: 59916215 (CN204655685U)

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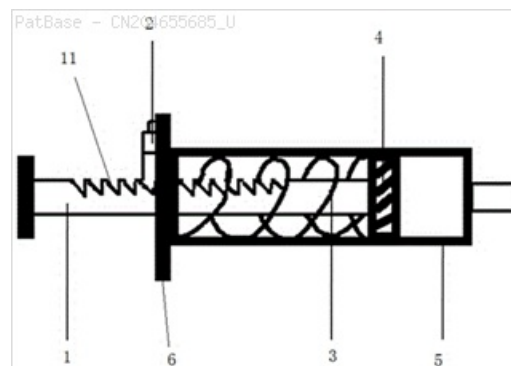
Title: AUTOMATIC SURVEY HARD WAIST OF OUTER INTERSTITIAL SITE OF DURA MATER AND JOINTLY ANAESTHETIZE PUNCTURE PACKAGE

Abstract: The utility model discloses an automatic survey hard waist of outer interstitial site of dura mater and jointly anaesthetize puncture package, including having push rod, spring, spring stop and the syringe cylinder of tooth's socket, in the front portion of push rod is passed and is stretched into the syringe cylinder behind the spring stop, and be equipped with the piston on the front side top of push rod, the spring stop is fixed on the syringe cylinder, spring suit is on the push rod, and the front end of spring connects on the piston, and the rear end is connected on the spring stop, be equipped with the hasp of forming a complete set with the tooth's socket on the spring stop. The utility model discloses organically combine anesthetist's subjective judgement with visual effect, avoid the puncture needle to pierce through the endorchis, it is more safe effective in the patient, it is then more practical reliable in the anesthetist.

Classifications:

International (IPC 8-9): A61M5/20 A61M5/315 (Advanced/Invention)

CPC: A61M5/002 A61M5/20 A61M5/31501 A61M5/31566 A61M2005/2006



Family:

Publication number	Publication date	Application number	Application date
CN104784786 A	20150722	CN201510228454	20150507
CN204655685 U	20150923	CN201520290119U	20150507

Priority:

CN201510228454 20150507 CN201520290119U 20150507

Probable Assignee: ZHENJIANG GAOGUAN MEDICAL EQUIPMENT CO LTD

Assignee(s): (std): ZHENJIANG GAOGUAN MEDICAL APPLICES CO LTD ; ZHENJIANG GAOGUAN MEDICAL EQUIPMENT CO LTD

Assignee(s): ZHENJIANG GAOGUAN MEDICAL EQUIPMENT CO ; TOWN JIANG GAOGUAN MEDICAL DEVICES CO LTD ; ZHENJIANG GAOGUAN MEDICAL APPLICES CO

36) Family number: 61848790 (WO16034910A1)

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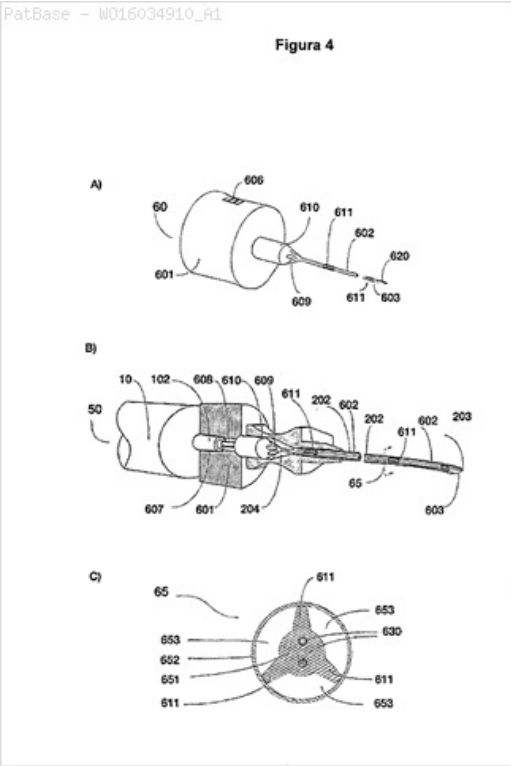
Title: DEVICE FOR ASSISTING IN THE DETECTION OF BODY CAVITIES

Abstract: The invention relates to a medical device for the detection of body cavities, comprising electronic means for measuring the bio-impedance of the tissue in contact with the tip of penetrating means, by means of electrodes that are removably inserted, using a stylus, in the hollow portion of said penetrating means.

Classifications:

International (IPC 8-9): A61B17/34 A61B5/04 A61M5/178 A61M5/32 A61M5/42 A61N1/05 (Advanced/Invention)

CPC: A61B5/04 A61B17/34 A61M5/178 A61M5/32 A61M5/42 A61N1/05



Family:

Publication number	Publication date	Application number	Application date
CO20170002996 A2	20170810	CO20170002996	20170328
WO16034910 A1	20160310	WO2014IB01684	20140902

Priority:

WO2014IB01684 20140902

Probable Assignee: ANDRES ERNESTO SALGUERO BELTRAN

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Inventor(s): (std): BUENDIA RESTREPO AUGUSTO ; SALGUERO BELTRAN ANDRES ERNESTO

Inventor(s): AUGUSTO BUENDIA RESTREPO ; ANDRES ERNESTO SALGUERO BELTRAN

Agent(s): JOSE ANDRES RINCON USCATEGUI; CORREA BARBOSA OSCAR

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

37) Family number: 62457180 (US2016144126A)

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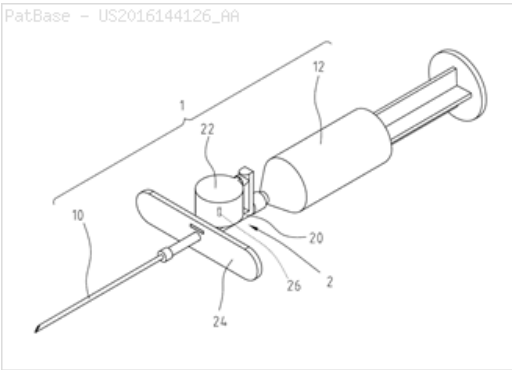
Title: METHODS AND DEVICES FOR SAFELY POSITIONING A NEEDLE SYRINGE IN A BODY CAVITY

Abstract: The present invention discloses a pressure-depending clutching device for locating and safely positioning a needle in a body cavity. The device is capable of automatically engaging and disengaging the needle from a driving force depending on the pressure experienced by needle. The device has a body with an interior space, a pressure-sensing element disposed in the body defining a portion of a pressure chamber, and a force-receiving element operatively connected to the pressure-sensing element. The force-receiving element has a shape complimentary to a portion of a force-sending element operatively connected to a force-applying structure such as a handle for a user to apply a driving force. The pressure-sensing element, the force-receiving element, and the complementary force-sending element form a driving force engaging mechanism for coupling the force-applying structure to the needle during operation. Before the needle reaches the target body cavity, the pressure in the needle causes the clutching device to assume an "engaged" state, coupling the driving force to the needle. When the needle reaches the body cavity, the change in pressure causes the clutching device to assume a "disengaged" state, disengaging the driving force from the needle, thereby, automatically positioning the needle in the cavity to avoid overshooting. Also provided are needle-and-syringe

assemblies incorporating the disclosed clutching devices, methods for manufacturing the disclosed clutching devices, as well as methods for safely locating and positioning needles in the body cavity utilizing a needle-and-syringe assembly incorporating the disclosed clutching devices.

Classifications:

International (IPC 8-9): A61B17/34 A61M5/19 A61M5/315 A61M5/32 A61M5/34 A61M5/46 (Advanced/Invention)
CPC: A61B2017/3409 A61B17/3401 A61B17/3403 A61M5/34 A61M5/46
US: 29/434 604/156 604/503



Family:

Publication number	Publication date	Application number	Application date
EP3220984 A1	20170927	EP20150860313	20151120
IN201737020654 A	20170915	IN201737020654	20170613
KR20170086600 A	20170726	KR20177016811	20151120
TW201618824 A	20160601	TW20140140451	20141121
TWI572387 B	20170301	TW20140140451	20141121
US2016144126 AA	20160526	US20150947997	20151120
WO16081899 A1	20160526	WO2015US61982	20151120

Priority:

TW20140140451 20141121 US20140091199P 20141212 US20150947997 20151120
WO2015US61982 20151120

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Assignee(s): (std): FLATMED LLC ; LUO WEN FU

Inventor(s): (std): LUO WEN FU

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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