Search history

Search 1: FT=(MEDICAL~ AND CONNECTOR~ AND COUPLING~ AND FLUID~ AND LINES~ AND INJECTION~ AND INJECTOR~ AND APPARATUS~ AND DEVICE~) (Results 1199)

Search 2: FT=(MEDICAL~ AND (CONNECT~ OR COUPL~) AND FLUID~ AND LINES~ AND (INJECTION~ OR INJECTOR~) AND (APPARATUS~ OR DEVICE~)) (Results 81945)

Search 3: (2) (Results 81945)

Search 4: [SP]: fluid connection assembly with locking mechanism in general, this disclosure relates to techniques for implementation and use of a fluid connection assembly, having a locking mechanism, which may be connected to a medical fluid injection device. an example fluid connection assembly includes at least one fluid connector, a mating mechanism coupled to the at least one fluid connector and configured to connect the at least one fluid connector to a medical fluid injection device, and a locking mechanism coupled to the mating mechanism and movable into a locked position or an unlocked position. in this example, the fluid connection assembly becomes affirmatively coupled with the medical fluid injection device when the locking mechanism is in the locked position, and the fluid connection assembly becomes removably decoupled from the medical fluid injection device when the locking mechanism is in the unlocked position. (Results 16)

Search 5: [SP]: related application this application is a continuation of u.s. application ser. no. 12/324,512 filed nov. 26, 2008 which is hereby expressly incorporated by reference. technical field this disclosure generally relates to the connection of components to a medical fluid injection device. background medical fluid injection devices are typically used to inject medical fluid into a patient. these devices often include one or more reservoirs to hold the medical fluid, and one or more pressurizing units to inject the medical fluid into the patient. for example, a contrast media powered injection device may include a reservoir containing contrast media and a syringe that is used to inject the contrast media into the patient. the contrast media injection device may be used during certain medical procedures, such as an angiographic or computed tomography (ct) procedure.many medical fluid injection devices include one or more syringes to inject fluid. a syringe has a chamber for holding the fluid and a plunger that is moveable within the chamber. the fluid is typically drawn into the chamber from a fluid reservoir when the plunger is moved in a first direction. the fluid is then expelled from the chamber and into the patient when the plunger is moved in a second, opposite direction. the fluid is delivered at a rate that may be determined by a speed of movement of the plunger.in many cases, fluid may be injected from a medical fluid injection device into a patient via a patient line, or tubing kit, that is connected to the injection device. in certain cases, the patient line may comprise a disposable component. for example, at the beginning of an injection procedure, a clinician may connect a sterilized patient line to the injection device. upon completion of the injection procedure, the clinician may then disconnect the patient line from the injection device, and subsequently dispose of the patient line. the clinician may then use a new patient line, or tubing kit, for a subsequent injection procedure. summary in general, this disclosure relates to techniques for implementation and use of a fluid connection assembly, having a locking mechanism, which may be connected to a medical fluid injection device. the fluid connection assembly may comprise a sterilized, disposable component that may be connected to a non-sterilized injection device. in some cases, a clinician may use a one-handed manual insertion procedure to connect the fluid connection assembly, which may be part of a patient line, to the injection device. in these cases, the clinician may be able to maintain sterility while making this connection.in one embodiment, an example fluid connection assembly includes at least one fluid connector, a mating mechanism coupled to the at least one fluid connector and configured to connect the at least one fluid connector to a medical fluid injection device, and a locking mechanism coupled to the mating mechanism and movable into a locked position or an unlocked position. the fluid connection assembly becomes affirmatively coupled to the medical fluid injection device when the locking mechanism is in the locked position. the fluid connection assembly becomes removably decoupled from the medical fluid injection device when the locking mechanism is in the unlocked position.in one embodiment, an example method includes connecting at least one fluid connector of a fluid connection assembly to a medical fluid injection device, moving a locking mechanism of the fluid connection assembly into a locked position to affirmatively couple the fluid connection assembly to the medical fluid injection device, and moving the locking mechanism of the fluid connection assembly into an unlocked position to removably decouple the fluid connection assembly from the medical fluid injection device.in one embodiment, an example fluid connection assembly includes a connecting means for connecting the fluid connection assembly to a medical fluid injection device, a locking means for affirmatively coupling the fluid connection assembly with the medical fluid injection device, and an unlocking means for removably decoupling the fluid connection assembly from the medical fluid injection device.the details of one or more embodiments are set forth in the accompanying drawings and the description below. other features, objects, and advantages will be apparent from the description and drawings, and from the claims. brief description of drawings fig. 1a is a perspective diagram of one embodiment of a powered medical fluid injection device that may be connected to a fluid connection assembly. fig. 1b is a perspective diagram of one embodiment of the powered medical fluid injection device of fig. 1a connected to various components, including fluid reservoirs and tubing. figs. 2a-2e are various perspective diagrams of another embodiment of a powered medical fluid injection device, or device components, that may be connected to a fluid connection assembly. fig. 3 is a perspective diagram of an example syringe that may be used with a powered medical fluid injection device, according to one embodiment. fig. 4 is a perspective diagram of a patient line that may be used with a powered medical fluid injection device, according to one embodiment. figs. 5a-5d are perspective diagrams of a fluid connection assembly that may be connected to a powered medical fluid injection device, according to one embodiment. fig. 6 is a perspective diagram of certain components of the fluid connection assembly shown in figs. 5a-5d, where a locking mechanism has been moved into a different position, according to one embodiment. figs. 7a-7c are perspective diagrams of a locking mechanism included in the fluid connection assembly shown in figs. 5a-5d, according to one embodiment. fig. 8 is a flow diagram of a method that may be performed to connect the fluid connection assembly shown in figs. 5a-5d to a powered medical fluid injection device, according to one embodiment. detailed description fig. 1a is a perspective diagram of one embodiment of a powered medical fluid injection device 100 that may be connected to a fluid connection assembly. in the embodiment of fig. 1a, the pressurizing unit within sleeve 108 is a syringe. in other embodiments, other forms of pressurizing units may be used, including other types of positive displacement pumps. device 100 is, in some embodiments, used to inject medical fluid, such as contrast media or saline, into a patient during a medical procedure, such as an angiographic or computed tomography (ct) procedure.device 100 includes a control panel 102, an injector head 104, a sleeve 108 to hold a pressurizing unit, a reservoir holder 110, a module 112, a patient manifold sensor 114, and an air detector 116. injector head 104 includes a pump 106 and also includes one or more processors used to control and/or monitor injector head 104, control panel 102, the pressurizing unit within sleeve 108, patient manifold sensor 114, and air detector 116 of device 100. reservoir holder 110 is capable of holding a fluid reservoir that contains an amount of fluid to be drawn into the syringe during operation of device 100. for example, reservoir holder 110 may hold a reservoir of contrast media or diluent. a second reservoir holder (not shown) may hold a diluent (e.g., saline) for use in pump 106. fig. 3 shows an example of a syringe that may be used within sleeve 108, according to one embodiment. patient manifold sensor 114 may, in some cases, be connected to a patient manifold, as will be described in reference to fig. 1b.an operator of device 100, such as a clinician, may use control panel 102 to set up various parameters and/or protocols to be used for a given injection procedure. for example, the operator may interact with control panel 102 to enter injection parameters for flow rate, maximum injection volume, maximum injection pressure, rise time, or other parameters. in one embodiment, control panel 102 includes a touch-screen panel.pump 106 is capable of pumping fluid. in one embodiment, pump 106 is a peristaltic pump. in this embodiment, tubing and a fluid reservoir (not shown) are coupled to and through pump 106. pump 106 pumps fluid from the fluid reservoir through the tubing towards module 112. in the example of fig. 1a, both pump 106 and the syringe contained within sleeve 108 are capable of delivering fluid from device 100 into a catheter. pump 106 is driven by a motor that is part of pump 106, and the plunger within the syringe is driven by a motor assembly, including an actuator, that is part of injector head 104. in one embodiment, injector head 104 includes a processor that drives the motor assembly.in one embodiment, reservoir holder 110 holds a fluid reservoir that is coupled to input fluid tubing. this input fluid tubing is coupled to the syringe, such that when the plunger within the syringe is moved in a first direction by the motor, fluid is drawn from the reservoir into the syringe. the syringe within sleeve 108 is further coupled to output tubing. when the plunger within the syringe is moved in a second, opposite direction, fluid is expelled out of the syringe into the output tubing. in one embodiment, the syringe is a dual-port syringe, such that the input tubing is coupled to one port of the syringe, and the output tubing is coupled to another port of the syringe. fig. 3 shows an exa (Results 16)

1) Family number: 18953892 (US2008167630A)

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Title: CONTROLLED DELIVERY SYSTEM

Priority:

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WO06033948 A3	20060608	WO2005US32863	20050915
ZA200702373 A	20080827	ZA20070002373	20050915

Probable Assignee: DURECT CORP

Assignee(s):(std)**:** JUREKT CORP D ; SMART ALLEN A ; VERITY A NEIL ; VERITY NEIL A ; DURECT CORP

Assignee(s): DURECT CORP CUPERTINO ; DURECT CUPERTINO CORP ; D JUREKT KORPOREJSHN

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Inventor(s): VERITY NEIL A SUNNYVALE ; ADRIAN NEIL VERITY ; A NEIL VERITY

Agent(s): FB RICE; FB RICE PTY LTD; FETHERSTONHAUGH AND CO; SCHWABE SANDMAIR MARX; PATENTANWALTSKANZLEI MEYER; WOODS GEOFFREY CORLETT; CLARK ANDREW PETER; PONS ANGEL; REINHOLD COHN AND PARTNERS; OOYA KEN ICHI; FUJITA TAKASHI; ISHII SADAJI; HIRAKI YUSUKE; OKTAY SIMSEK; THOMAS P MCCRACKEN DURECT CORP; DURECT LEGAL DEPARTMENT CORP

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

International class (IPC 8-9): A01N37/08 A61F2/00 A61K A61K31/045 A61K31/215 A61K31/445 A61K31/4458 A61K45/06 A61K45/08 A61K47/10 A61K47/22 A61K47/26 A61K9/00 A61K9/08 A61K9/10 A61M35/00 A61P17/02 A61P23/00 A61P23/02 A61P25/02 A61P29/02 A61P41/00 B60C27/10 (Advanced/Invention);
A01N37/08 A61K31/215 A61K31/445 A61K47/26 A61K9/08 (Advanced/Non-invention);
A61K31/00 A61K31/445 A61K47/00 A61K47/10 A61K47/26 A61K9/00 A61K9/08 A61K9/10 A61P17/00 A61P23/00 A61P25/00 (Core/Invention);
A61K (Subclass/Invention)

International class (IPC 1-7): A61K47/26 B60C27/10

CPC: A61K9/0024 A61K9/0014 A61K47/22 A61K9/107 A61K9/7015 A61K9/0019 A61K45/06 A61K31/445 A61K9/08 A61K47/26

European class: A61K31/445 A61K47/26 A61K9/00M3 A61K9/00M4 A61K9/00M5 A61K9/00M5D A61K9/08 A61K9/107 A61K9/70D B60C27/10

US class: 152/234 424/426 514/315 514/330 514/330S 514/724 514/730 514/730S 604/290 604/290P

Classification Explorer

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Forward Citations: WO18005777, WO15164272, WO15123734, WO14143635, WO08066642, WO08066642, US9744163, US9592227, US9446036, US8956644, US8846072, US8753665, US8337883, US8153661, US8153149, US2010143437, US2008152708, US2008145419, KR20170025011, JP5737949, JP5285275, JP2011511088, JP2010522738, JP2009073839, JP2008514719, JP2008513467, EP2484347, EP1809329, CN105358129, CN104208020,

Abstract:

Source: US2008167630A The present invention relates to novel anesthetic compositions containing a non-polymeric carrier material and an anesthetic, where the compositions are suitable for providing a sustained local anesthesia without an initial burst and having a duration for about 24 hours or longer. Certain compositions are also provided that include a first anesthetic and a second anesthetic. In such compositions, the second anesthetic is a solvent for the first anesthetic and provides an initial anesthetic effect upon administration to a subject. The non-polymeric carrier may optionally be a high viscosity liquid carrier material such as a suitable sugar ester. The compositions can further include one or more additional ingredients including active and inactive materials. Methods of using the compositions of the invention to produce a sustained anesthetic effect at a site in a subject are also provided.

PatBase - US2008167630_AA

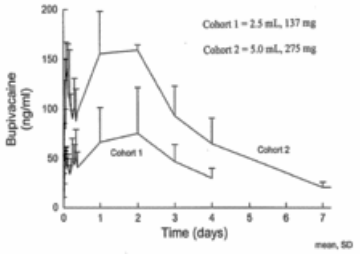


FIGURE 1

2) Family number: 31455757 (US3463365A)

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Title: METAL CASTING **APPARATUS** WITH ELECTROMAGNETIC NOZZLE

Priority:
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Probable Assignee: COULTER CHEM INC

Assignee(s):(std)**:** COULTER ELECTRONICS ; COULTER W ; INSTITIT DE RECH S DE LA SIDER ; ALLEGHENY LUDLUM STEEL ; BOWLES ENG CORP ; COULTER CHEM INC ; COULTER ELECTRONICS LTD HARPENDEN HERTFORDSHIRE ; JOHNSON SERVICE CO ; WALLACE H COULTER ; SIDERURGIE FSE INST RECH ; JOHNSON SERVICE CY

Assignee(s): JOHNSON CONTROLS INT INC A CORP OF DE ; LOUIS D ATKINSON ; OTTO R MUNCH ; WILLIAM F ROTHERMEL ; ROBERT I KLEIN ; WALLACE HENRY COULTER ; JOHNSON CONTROLS INT ; INSTITIT DE RECHERCHES DE LA SIDERURGIE FRANCAISE ; JOHNSON SERVICE CO MILWAUKEE WIS V ST A ; JOHNSON SERVICE CY US ; COULTER ELECTRONICS LTD ; COULTER ELECTRONICS LTD HARPENDEN HERTFORDSHIRE GROSSBRITANNIEN ; COULTER ELECTRONICS LTD DUNSTABLE BEDFORDSHIRE GROSSBRITANNIEN ; COULTER CHEM INC US ; ALLEGHENY LUDLUM STEEL CORP ; COULTER ELECTRONICS INC ; DE RECHERCHES DE LA SIDERURGIE FRANCAISE INST ; COULTER ELECTRONICS LTD HARPENDEN HERTFORDSHIRE G ; COULTER ELECTRONICS LTD DUNSTABLE BEDFORDSHIRE GR ; COULTER ELECTRONICS INC HIALEAH FLA V ST A ; INST DE RECHERCHES DE LA SIDERURGIE FRANCAISE

Inventor(s):(std)**:** ATKINSON L ; ATKINSON LOUIS D ; ATKINSON LOUIS DEE ; COLSTON JOHN R ; DUMONT FILLON J ; DUMONT FILLON JACQUES ; DUMONT FILLON JACQUES ING ; FILLON DUMONT ; FLETCHER ROTHERMEL WILLIAM ; HIALEAH FLA ; JONES A ; JONES ALAN RICHARDSON ; KLEIN R ; KLEIN R I ; KLEIN ROBERT I ; KLEIN ROBERT IVAN ; MUNCH O ; MUNCH OTTO R ; MUNCH OTTO ROBERT ; IVAN KLEIN ROBERT ; RICHARDSON A ; ROBERT IVAN KLEIN ; ROTHERMEL W ; ROTHERMEL W F ; ROTHERMEL WILLIAM F ; ROTHERMEL WILLIAM FLETCHER ; RUFUS EASTON ; WILLIAM FLETCHER ; WILLIAM FLETCHER ROTHERMEL

Inventor(s): ALAN RICHARDSON JONES ; WILLIAM F ROTHERMEL ; RICHARDSON A US ; ROBERT I KLEIN ; JACQUES DUMONT FILLON ; JOHN R COLSTON ; MUNCH OTTO ROBERT MILWAUKEE ; OTTO R MUNCH ; LOUIS D ATKINSON ; LOUIS DEE ATKINSON AND OTTO ROBERT MUNCH ; JONES ALAN RICHARDSON MIAMI FLA V ST A ; JONES ALAN RICHARDSON MIAMI FLA VSTA ; ING JACQUES DUMONT FILLON ; FLETCHER WILLIAM ; EASTON RUFUS ; ATKINSON LOUIS DEE NEW BERLIN

Agent(s): SELIGSOHN GABRIELI AND CO

International class (IPC 8-9): B01F13/02 B01F5/00 B01F5/02 B22D11/18 B22D39/00 B22D41/14 F15C1/00 F15C1/04 F15C1/14 F15C1/20 F15C4/00 F27D3/18 G01F13/00 G01N1/00 G01N1/38 G01N15/00 G01N15/10 G01N15/12 G01N21/27 G01N21/31 G01N33/483 G01N33/49 G01N35/00 G01N35/02 G05D7/06 G06M11/00 H05B6/34 (Advanced/Invention);
G01N15/10 G01N15/12 (Advanced/Non-invention);
B01F13/00 B01F5/02 B22D11/18 B22D39/00 B22D41/14 F15C1/00 F27D3/00 G01F13/00 G01N1/00 G01N1/38 G01N15/00 G01N15/10 G01N21/25 G01N21/31 G01N33/483 G01N33/49 G01N35/00 G01N35/02 G05D7/06 G06M11/00 H05B6/02 (Core/Invention);
G01N15/10 (Core/Non-invention)

International class (IPC 1-7): A61B5/14 B01F13/02 B01F3/08 B01F5/02 B01F5/04 B01F5/10 B01L11/00 B05B7/24 B22D11/10 B22D41/08 B65D47/04 F15C1/00 F15C1/04 F15C1/14 F15C1/20 F15D1/00 F15D1/08 F16C1/20 F16K13/00 F16K21/00 F16K31/00 F16K51/00 F16K9/00 G01F11/44 G01J3/00 G01N1/00 G01N1/18 G01N1/28 G01N11/04 G01N15/00 G01N15/02 G01N21/00 G01N21/02 G01N21/03 G01N21/27 G01N21/56 G01N21/71 G01N27/00 G01N33/16 G01N33/48 G01N33/50 G01N35/02 G01N35/04 G01N35/08 G05D G06M11/00

CPC: B01F5/0057 B22D41/14 Y10T137/0318 Y10T137/2076 Y10T137/2142 Y10T137/2174 Y10T137/4643 G01F13/001 B01F5/02 B22D11/185 F15C1/00 F15C1/14 F27D3/18 G01F13/00 G01N35/1097 B01F13/0233 B22D11/186 B22D39/003 F15C1/04 F15C1/20 G01N1/38 G01N15/12 G01N15/1245 G01N35/00 G01N2015/1037 G05D7/0635 H05B6/34

European class: 45L8E10 B01F5/00B B01F5/02 B22D11/18A3 B22D39/00A B22D41/14 F15C1/00 F15C1/04 F15C1/14 F15C1/20 F27D3/18 G01F13/00 G01F13/00B G01N1/00B1B G01N1/38 G01N15/12 G01N35/10V1 S01N15/10F S01N15/12C

US class: 137/1 137/251.1 137/80.6 137/806 137/81.5 137/818 137/824 138/37 141/392 164/437 164/449.1 164/450.3 164/453 164/466 164/489 164/502 222/544 222/56 222/591 222/594 222/597 235/200PF 250/338.1 324/140R 324/71 324/71.1 335/284 356/39 422/81 436/70

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Forward Citations: WO9825719, WO8802864, WO8801377, WO8706340, WO8606307, WO8501797, WO07128684, WO07030325, WO03104771, WO0112363, US9567622, US9091677, US8573033, US8557598, US8227250, US8028566, US7797990, US7771658, US7575723, US7294307, US6890489, US6799595, US6712122, US6321766, US6246786, US6063634, US6044858, US5882599, US5598200, US5381857, US5261611, US5036937, US5027885, US4993477, US4989978, US4964847, US4957008, US4953487, US4858154, US4842170, US4752690, US4749026, US4747685, US4744407, US4739819, US4726932, US4726237, US4640821, US4609017, US4606397, US4564058, US4525666, US4471832, US4469165, US4419177, US4395676, US4349066, US4324266, US4244837, US4229210, US4226278, US4213876, US4173299, US4159895, US4082207, US4078211, US4052596, US4041385, US4030533, US3999047, US3997838, US3976429, US3976117, US3970112, US3939799, US3921671, US3921066, US3896307, US3864571, US3851156, US3783902, US3777785, US3777172, US3743424, US3742194, US3731708, US3724476, US3717122, US3708088, US3706399, US3701357, US3692410, US3689904, US3660638, US3657725, US3631875, US3626962, US3625238, US3536925, US3523785, US3486660, US3463365, US3456714, US3416549, US3300820, US3293705, US3285271, US3279000, US3217368, US3204460, US3122800, US3116440, US3040397, US3016566, US3014255, US2970830, US2944310, US2905989, US2008202217, US2007054404, US2006228807, US2006177347, US2006013725, US2005214928, US2005169802, US2005118075, US2001038071, JP2009508109, GB2267051, GB2267051, GB2218019, GB2218019, GB2173004, FR2629208, FR2629206, FR2475227, FR2475227, FR2422884, FR2386081, FR2386081, FR2380549, EP0739478, EP0517477, EP0510722, EP0357466, EP0335789, EP0311588, EP0291289, EP0291288, EP0157334, EP0140379, EP0098550, DE3490484, DE3427940, DE3303778, DE3237999, DE3017152, DE2811972, DE2629045, DE2250363, DE1508919, DE1458198, DE1291862, DE1126568, CN102854052, CN102854052, AU587822,

Abstract:
Source: US3463365A ABSTRACT OF THE DISCLOSURE
A metal casting appàratus having a downwardly ex-tending nozzle forœed with an axial flow passage there-through which communicates at the upper end thereof with a container so that molten metal in the container may flow out of the same through the axial flow passage of the nozzle, and in which electromagnetic means cooperate with an electric current which is passed through the stream of metal flowing through the nozzle and/or electrically conductive passages formed therein to control the flow of metal passing through the flow passage in dependence on the direction and magnitude of the electric current and the magnetic field produced by the electromagnetic means. B

PatBase - US3463365_A

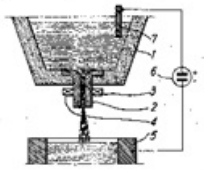


FIG. 1

Inventor:
Jacques Dumont-Fillon
By Michael S. Striker
Attorney

3) Family number: 39480194 (DK87479C)

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Title:	FREMGANGSMADE OG ANLAEG TIL VED KONTAKTEKSTRAKTION AT OVERFOERE ET I EN VAESKE OPLOEST STOF TIL EN EKSTRAKTIONSVAEESKE. PROCEDURE AND INSTALLATION FOR BY KONTAKTEKSTRAKTION TO CARRY ONE IN A LIQUID DISSOLVED SUBSTANCE TO A EKSTRAKTIONSVAEESKE. (Machine translation)
Priority:	DK19530003297 19531013

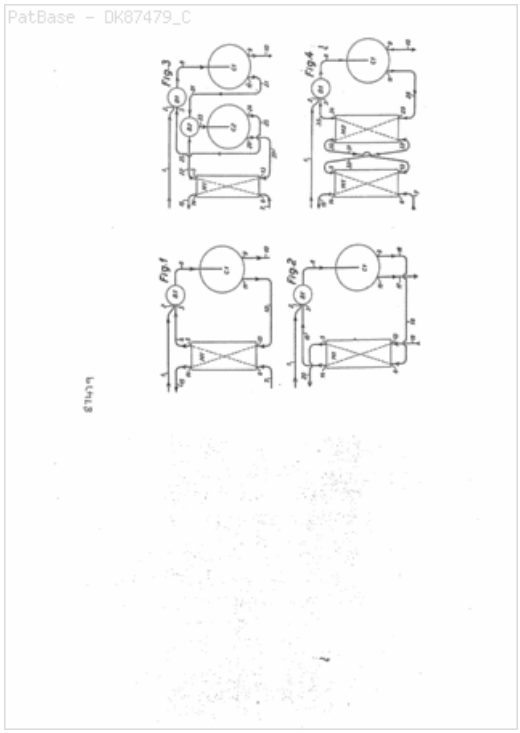
Family:

Publication number	Publication date	Application number	Application date
DK87479 C	19590629	DK19530003297	19531013

Probable Assignee:	NOVO TERAPEUTISK LABOR AS
Assignee(s):(std):	NOVO TERAPEUTISK LABOR AS
Assignee(s):	NOVO TERAPEUTISK LABORATORIUM A S
Inventor(s):(std):	MOSSIN KAI BOERGE
Inventor(s):	KAI BOERGE MOSSIN
International class (IPC 8-9):	B01D (Subclass/Invention)
International class (IPC 1-7):	B01D

Classification Explorer

Abstract:
Source: DK87479C [Source: Claim 1] 1. Fremgangsmade til fra en vaeske, der in- deholder et oploest stof, en sakaldt primaervaeske, ved kontaktekstraktion til en ekstraktionsvaeske at overfoere det naevnte stof, det sakaldte udvin- dingsstof, og af den art, hvor primaervaeske og ekstraktionsvaeske, af hvilke kontaktvaesker den ene har deltaget i en del af en til fremgangs- maden hoerende vaeskestroemning, dvs. er kon- taktet, ledes sammen i en blandeanordning og fra denne ind i en skillecentrifuge, hvori vaeske- blandingen separeres i dels en vaeske med et i stoerrelse til en af siderne ret ekstremt, dvs. me- get stort eller meget lille, procentindhold af op- loest udvindingsstof i forhold til primaervaeskens oprindelige indhold af udvindingsstof, og hvil- ken vaeske bortledes, dels en vaeske med et i stoerrelse ret betydeligt, dvs. mellemstort, pro- centindhold af oploest udvindingsstof, kende- tegnet ved, at sidstnaevnte vaeske direkte (fig. 1 og 2) eller indirekte og indeholdt i en vaeske- blanding (fig. 3-8) tilledes en modstroemscentri- fuge (MI), til hvilken der yderligere tilledes den naevnte ene af de to foran naevnte kontakt- vaesker til deltagelse i den foran naevnte vaeske- stroemning, og hvilke modstroemscentrifugen til- foerte to vaesker gennemstroemmer denne og af- gar som, dels en vaeske med et i stoerrelse til den modsatte side af den ved adskillelsen i skille- centrifugen naevnte ene side ret ekstremt, dvs. enten meget lille eller meget stort, procentind- hold af oploest udvindingsstof, hvilken vaeske bortledes, dels en vaeske med et mellemstort procentindhold af oploest udvindingsstof, hvilken vaeske direkte (fig. 1 og 2) eller indirekte og in- deholdt i en vaeskeblanding (fig. 3-8) tilledes den naevnte blandeanordning (Bl). [Source: Claim 1] 1. The procedure made to from a **fluid** in- deholder a dissolved substance, a sakaldt primary **fluid** on contact extraction to an extraction liquid to transfer the said substance, the sakaldte udvin- ding substance and of the type of primary **fluid** and extraction liquid, of which the contact liquids the one have participated in a part of a for the gangs- food related **fluid** flow, i.e. is kon- taktet, together in a mixing **device** and from this into a dividing centrifuge, in which the liquid- mixture separated in a part of a **fluid** with a in size to one side or the right extremely, i.e. me get large or very small percentage of up- loose extraction substance in relation to the primary **fluid** original contents of the extraction substance and rest- ken **fluid** drained away and a **fluid** with a in size right Significantly, i.e. between large, pro-cent content of dissolved extraction substance known signed by the fact that the latter liquid directly (fig. 1 and 2) or indirectly and contained in a liquid medium- mixture (fig. 3 to 8) entering collecting a modstroemscentri- seam (ml), for which additional input of the said one of the two abovementioned switch- **fluids** for participation in the foregoing **fluid**- flow and what modstroemscentrifugen to- led two liquids gennemstroemmer this and removing gar as, on the one hand a **fluid** with a in size to the opposite side of the during disassembly in isolating the centrifuge said one part right extremely, i.e. either very small or very large, procentind- hold of dissolved extraction substance which **fluid** drained away and a **fluid** with a medium-sized percentage content of dissolved extraction substance which **fluid** Direct (fig. 1 and 2) or indirectly and in- deholdt in a liquid mixture (fig. 3 to 8) entering collecting the mixing **device** (BL).



4) Family number: 77863 (US3419264A)

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Title: DOCUMENT HANDLING SYSTEM

Priority: CH19680005745 19680418 DK19680001735 19680418 US19670632642 19670421 US19670632658 19670421 US19670632662 19670421 US19670632793 19670421 US19670632801 19670421 US19670632802 19670421

Family:

Publication number	Publication date	Application number	Application date
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US3502325 A	19700324	US19670632642	19670421
US3521950 A	19700728	US19670632662	19670421

Probable Assignee: XEROX CORP

Assignee(s):(std)**:** RANK XEROX LTD ; XEROX CORP

Assignee(s): 5RANK XEROX LTD

Inventor(s):(std)**:** ADALBERT ANDOR LUX ; DONALD W GOULDSMITH ; GARDNER J ; GARDNER J F ; GARDNER JOHN F ; GERARD C WRIGHT ; GORDON PHILIP TAILLIE ; GOULDSMITH D ; GOULDSMITH D W ; GOULDSMITH DONALD W ; GRECO R ; GRECO R L ; GRECO ROBERT L ; JACK O WILSON ; JOHN FREDERICK GARDNER ; JOHN FREDERIK GARDNER ; LUSTIG M ; LUSTIG M H ; LUSTIG MARTIN H ; LUX A ; LUX A A ; LUX ADALBERT A ; MARTIN H LUSTIG ; JACK WILSON ; KLAUS KARL STANGE ; MICHAELIS T ; MICHAELS T ; MICHAELS T B ; MICHAELS THOMAS B ; STANGE K ; STANGE K K ; STANGE KLAUS K ; TAILLIE G ; TAILLIE G P ; TAILLIE GORDON P ; THOMAS BENJAMIN MICHAELS ; W GOULDSMITH DONALD ; WILSON J ; WILSON J O ; WILSON JACK O ; WRIGHT G ; WRIGHT G C ; WRIGHT GERARD C ; ROBERT GRECO ; ROBERT L GRECO

Inventor(s): ROBERT LEWIS GRECO ; ADALBERT A LUX ; WILSON JACK ; THOMAS B MICHAELS ; O WILSON JACK ; PHILIP TAILLIE GORDON ; L GRECO ROBERT ; JOHN F GARDNER ; MARTIN HOWARD LUSTIG ; KARL STANGE KLAUS ; KLAUS K STANGE ; JACK ORMOND WILSON ; H LUSTIG MARTIN ; GRECO ROBERT ; GERARD CLEMENT WRIGHT ; GORDON P TAILLIE ; DONALD WALTER GOULDSMITH ; FREDERICK GARDNER JOHN ; FREDERIK GARDNER JOHN ; ANDOR LUX ADALBERT ; BENJAMIN MICHAELS THOMAS ; C WRIGHT GERARD

Agent(s): REINHOLD COHN AND PARTNERS

International class (IPC 8-9): B65H29/54 B65H3/04 B65H3/06 B65H3/52 B65H31/20 B65H5/02 B65H5/34 G03B27/62 G03G15/00 G03G15/04 G03G15/047 G03G15/26 G06K13/063 G06K13/07 G06K13/103 G06K13/12 (Advanced/Invention);
B65H29/54 B65H3/02 B65H3/06 B65H3/52 B65H31/20 B65H5/02 B65H5/34 G03B27/62 G03G15/00 G03G15/04 G03G15/045 G06K13/02 G06K13/063 (Core/Invention)

International class (IPC 1-7): B65H29/00 B65H29/24 B65H3/00 B65H3/06 B65H3/46 B65H5/00 B65H5/06 B65H5/16 G01D15/00 G01D15/24 G01N21/30 G03B1/00 G03B27/00 G03B27/10 G03B27/32 G03B27/40 G03B27/46 G03B27/50 G03B27/52 G03B27/62 G03G15/00 G03G15/04 G03G15/22 G06K13/00 G06K13/10 G06K17/00

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European class: G03B27/62C4S G03G15/26B G03G15/60 G03G15/65F G06K13/07 G06K13/12 S03G215/00F1A1 S03G215/00G2B2B

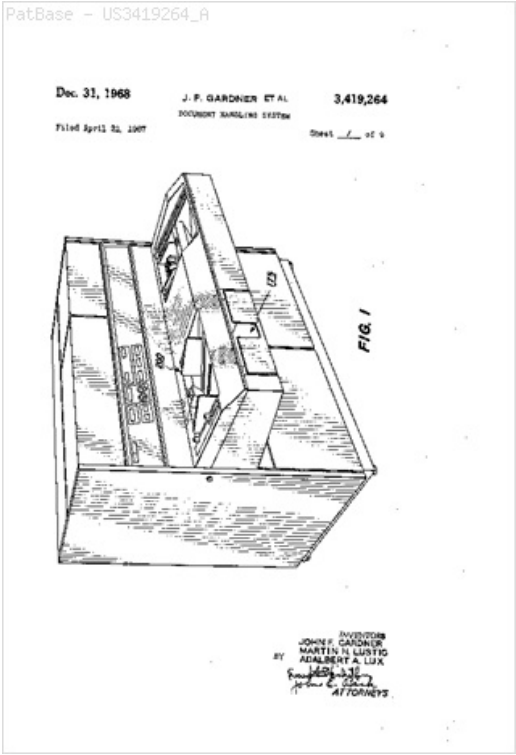
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Forward Citations: WO9852855, US7354214, US5913513, US5899451, US5350168, US5211388, US5004217, US4838534, US4683380, US4666144, US4621799, US4620699, US4614218, US4610533, US4596544, US4579444, US4561644, US4506978, US4494858, US4494744, US4475732, US4444382, US4397541, US4391505, US4381860, US4374212, US4334759, US4192497, US4170414, US4135808, US4110024, US4062535, US4053221, US4043665, US4033691, US4029411, US4025187, US4025186, US4025068, US4013358, US3985436, US3981493, US3976375, US3966198, US3952882, US3933349, US3924848, US3918143, US3917257, US3914047, US3900192, US3873196, US3860340, US3744900, US3732005, US3700908, US3697163, US3692401, US3689146, US3652862, US3594549, US3583696, US2006013635, JP59074835, JP57196040, JP53046474, JP52139431, JP5036395, JP49055049, GB2111466, EP0349012, EP0324545, DE4101007, DE2837212, DE2816074, DE2509757,

Abstract:
Source: US3419264A ABSTRACT OF THE DISCLOSURE
lu A document transport system wherein fed documents are electrostatically tacked to a light, highly reflective transport belt which, in an exposure zone, is held fiat against the ported surface of a vacuum manifold. As the document leaves the exposure zone, it is detacked from the surface of the first transport and advanced in an opposite direction on a second transport by means of vacuum and moving belts. When the document leaves this second transport, it enters a stacker transport of the vacuum-moving belts design where it is appropriately stripped off to settle face down in a stacker tray. Adjustable with stripper fingers there is a backing assembly in the stacker which rides on the stacker tray to restrain the stacked documments from sliding away from the front of the tray where they are readily accessible to the operator. B



5) Family number: 893466 (US3447479A)

© PatBase

Title: SYRINGE PUMP

Priority:
CA19690070373 19691219 CA19730163144 19730207 US19670643083 19670602
DE19681703503 19680531 DE19681703503 19680531 DE19681703503 19680531
US19670643086 19670602 US19690830078 19690603 US19700069981 19700904
US19700050686 19700629 US19680787539 19681227 US19700001499 19700108
US19680710609 19680305

Family:

Publication number	Publication date	Application number	Application date
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US3709636 A	19730109	US19700069981	19700904
US3710942 A	19730116	US19700050686	19700629

Probable Assignee: PALL CORP

Assignee(s):(std)**:** DAVID ROSENBERG ; ING DIETER HOLZWARTH ; PALL CORP ; ROBERT C DAYMON

Assignee(s): PALL CORP US ; PALL CORP GLEN COVE N Y US ; ROSENBERG DAVID ; PALL CORP 11542 GLEN COVE N Y US

Inventor(s):(std)**:** ROSENBERG DAVID ; ROSENBERG D ; DAYMON ROBERT C

Inventor(s): DAVID ROSENBERG ; ROBERT C DAYMON ; ROSENBERG D US ; ROSENBERG DAVID GLEN COVE NY ; ROSENBERG DAVID GLEN COVE N Y

Agent(s): Y SALOMON

International class (IPC 8-9):
A01B45/04 A61M1/00 A61M1/02 A61M3/00 A61M39/00 A61M39/02 A61M39/24 A61M5/00 A61M5/142 A61M5/165 A61M5/168 A61M5/172 A61M5/178 A61M5/36 B01D19/00 B01D35/28 B01L3/02 F04B1/04 F04B1/053 F04B13/00 F04B53/00 F04B9/02 F16K31/524 H01H43/12 (Advanced/Invention);
A61M39/10 (Advanced/Non-invention);
A01B45/00 A61M1/00 A61M1/02 A61M3/00 A61M39/00 A61M39/02 A61M5/00 A61M5/142 A61M5/165 A61M5/168 A61M5/178 A61M5/36 B01D19/00 B01D35/00 B01L3/02 F04B1/00 F04B13/00 F04B53/00 F04B9/02 F16K31/52 H01H43/00 (Core/Invention)

International class (IPC 1-7):
A01B45/04 A23L1/00 A61M1/00 A61M1/02 A61M1/03 A61M25/00 A61M3/00 A61M5/00 A61M5/14 A61M5/16 A61M5/18 B01D19/00 B01D35/02 B01D39/04 B65G65/02 F04B1/04 F04B13/00 F04B21/02 F04B49/00 F04B49/10 F16K11/04 F16K15/14 F16K15/16 H01H43/06 H01H43/10 H01H7/08 H05B1/02 H05B3/02

CPC:
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European class:
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US class:
103/153 137/512 137/515.7 137/846 137/852 137/854 137/855 172/19 198/312 198/314 200/38B 210/13.6 210/136 414/523 417/1 417/1.2 417/12 417/271 417/360 417/566 417/568 422/922 604/123 604/126 604/152 604/237 604/247 92/140 96/219 96/6

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Abstract:
Source: US3447479A ABSTRACT OF THE DISCLOSURE
normally maintained by an "O" ring or the like. On the . - . , , . . , - pressure stroke the plunger pump forces **fluid** from the A syringe pump is provided m which the syringe is „ . , , ,, £ ^ IT ' ; easily détachable from Îhe assembly and replaceable with %nnf ^ody through the uep, and on the vacuum stroke a syringe of the same or of a différent size. plungert draws.flu,d lnto the body thm^h the uep_gt; The syringe pump has a drive mechanism, a **coupling** 15 for-f®. nf1; p.umping or Pres,s,ure s'rok/" , f. f „„„„„ , ,, „, „„ „ n ._ ' , \ . ® Surgical syringes are normally made from plastic matemeans to hold the plunger of the syrmge and the drive . , „ degrees , J . degrees ., . , , , „ j. . , n rial such as Polyethylene or polypropylene; however, symeans m operative engagement, engagmg the end of the . a c ss , X / ss / .y plunger in an easily détachable manner, and adapted to nngeS faaee degrees f any materf that t0 the fl!?d befg accommodate syringe plungers of différent sizes, and a 9ft P"m?ed',Such as fss' "ylon' a?d .Tf.on' arfe su'abe for mounting means holding the syringe body in a fixed posi- 20 USe ® th:st »"vention. material is preferably transtion relative to the drive means, entging the syringe body ^ 0r .transIuCerÌ_gt; bf 11 need not be". . . in an easily detachable manner, and adapted to accom- .. Thet synnf fn be of a"7 sfe' and modate syringe bodies of différent sizes. f ametevf' and of any capaf ss Capacities from about one J cc to about ten cc are preferred for use m pumps of this -——- 25 invention.

PatBase - US3447479_A

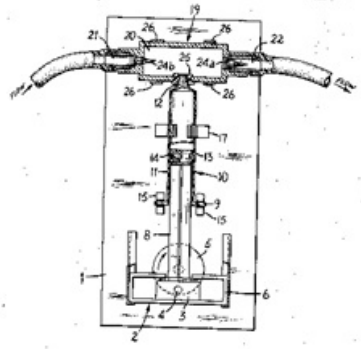


FIG. 1

6) Family number: 6060649 (US3719087A)

Title: PIPETTING **APPARATUS** AND METHOD

Priority: AT19710005545 19710625 AU19710029657 19710603 DE19712132066 19710628 FR19710024054 19710701 GB19710029675 19710624 US19660541306 19660408 US19700057720 19700723 US19690860775 19690924

Family:

Publication number	Publication date	Application number	Application date
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AU197129657 A1	19721207	AU19710029657	19710603
AU207129657 A1	19721207	AU19710029657	19710603
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US3475128 A	19691028		19660408
US3607082 A	19710921		19690924
US3719087 A	19730306		19700723

Probable Assignee: BIO SCIENCE LABOR

Assignee(s):(std)**:** BIO SCIENCE LAB VAN NUYS ; BIO SCIENCE LABOR ; THIERS R

Assignee(s): THIERS R US ; BIOSCIENCE LABORATORIES ; BIO SCIENCE LABORATORIES VAN NUYS COUNTY OF LOS ANGELES CALIFORNIA EUA ; BIO SCIENCE LABORATORIES ; BIO SCIENCE LABORATORIES VAN NUYS ; BIO SCIENCE LABORATORIES VAN NUYS COUNTY OF LOS AN ; BIO SCIENCE LABORATORIES VAN NUYS COUNTY OF LOS ANGELES CALIFORNIA E U A ; BIO SCIENCE LAB

Inventor(s):(std)**:** THIERS R E ; THIERS R ; THIERS RALPH EDWARD ; THIERS RALPH E ; RALPH EDWARD THIERS

Inventor(s): RALPH E THIERS ; EDWARD THIERS RALPH ; THIERS R US ; R E THIERS ; RE THIERS

International class (IPC 8-9): B01L3/00 B01L3/02 F04B43/14 F04F1/02 G01N1/18 G01N1/38 G01N35/08 G01N35/10 (Advanced/Invention); G01N35/10 (Advanced/Non-invention); B01L3/00 B01L3/02 F04B43/12 F04F1/00 G01N1/18 G01N1/38 G01N35/08 (Core/Invention); G01N35/10 (Core/Non-invention)

International class (IPC 1-7): B01L3/00 B01L3/02 B01L9/00 F04F1/02 G01N1/00 G01N1/14 G01N31/00 G01N31/16 G01N35/00 G01N35/08

CPC: B01L3/0213 Y10T436/118339 B01L3/502 B01L3/021 B01L2400/0481 F04B43/14 F04F1/02 G01N1/18 G01N1/38 G01N35/08 G01N2035/1025 Y10T436/119163

European class: B01L3/00C6 B01L3/02C B01L3/02C1 B01L3/502 F04B43/14 F04F1/02 G01N1/18 G01N1/38 G01N35/08 L01L400/04M4 S01N35/10C5

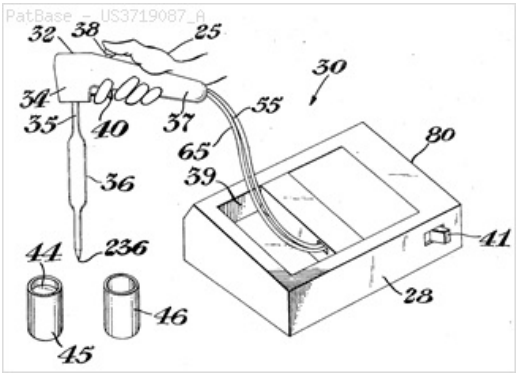
US class: 141/18 141/26 204/409 210/644 222/450 23/230 232/300 251/7 251/9 356/246 356/36 366/189 417/475 417/477.12 417/477.3 417/477.5 417/477.9 418/45 422/103 422/400 422/535 422/66 422/922 435/30 435/309.1 436/53 436/54 73/425.6 73/864.14 73/864.15

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Forward Citations: WO05087377, WO04106916, WO0200346, WO0200346, WO0074851, USD620602, US8758687, US8322199, US8114362, US7416704, US7396512, US7381371, US6758106, US6734026, US5456880, US5090255, US5007296, US4847208, US4715710, US4715435, US4691580, US4597298, US4585623, US4487081, US4428745, US4425113, US4369665, US4058363, US3994687, US3991616, US3869068, US3858796, US3834240, US3609040, US3607082, US2017264223, US2015298089, US2013202487, US2009010809, US2009007701, US2008008623, US2006226383, US2006104866, US2005184516, US2005158211, US2005095723, US2004241022, US2004004717, US2002012613, US2001043886, JP2004512925, FR2454547, EP1555067, EP1479906, EP1059120, EP0904840, EP0456137, EP0456137, DE4014588, DE10322797, DE10322797,

Abstract:
Source: US3719087A An automatic pipetting **apparatus** comprises a hand-holdable pipet-operating **apparatus** which includes means for releasably **coupling** a plurality of interchangeable pipets to a low-dead-space valving structure. The valving structure operates the pipets by selectively sealing or applying suction or pressure to a pipet. A pipet driving subassembly including pressure and suction pumps is **coupled** to the pipetting **apparatus** by flexible tubes, permitting continuous application of suction and pressure to the pipet-operating **apparatus** as well as free movement of the pipet-operating **apparatus** with respect to the pipet driving subassembly.



7) Family number: 34736225 (US3549528A)

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Title: OZONE STERILIZATION PROCESS

Priority:

AU19750086986 19751126
CA19710130066 19711214
CA19750237396 19751007
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US19740531095 19741209

Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: ARMSTRONG EDWARD T

Assignee(s):(std)**:** ARMSTRONG EDWARD ; ARMSTRONG EDWARD T ; TII CORP ; TEREKOMYUUNIKEISHONZU IND INC ; GRAHAM J ; TII CORP TELECOMMUNICATIONS IN ; T11 CORP ; ARMSTRONG E ; ARMSTRONG E T ; TELECOMMUNICATIONS IND INC ; TELECOMM IND INC ; TELECOMMUNICATIONS IND

Assignee(s): TIL CORP ; TII CORP TELECOMMUNICATIONS IND INC ; EDWARD T ARMSTRONG ; ARMSTRONG E US ; KEY WEST HOLDINGS INC ; GRAHAM J US

Inventor(s):(std)**:** ARMSTRONG E ; ARMSTRONG EDWARD T ; EDOWAADO TEI AAMUSUTORONGU ; GRAHAM J

Inventor(s): GRAHAM J US ; T ARMSTRONG EDWARD ; EDWARD T ARMSTRONG ; ARMSTRONG E US

Agent(s): RIDOUT AND MAYBEE LLP

International class (IPC 8-9): A47K10/06 A47K10/30 A61L11/00 A61L2/16 A61L2/20 B01D21/00 B01D21/02 B01D21/34 B01D47/00 B01D53/34 B01F11/00 B01F3/04 B01F5/04 B01F5/06 B01J10/00 B01J12/00 C01B13/10 C01B13/11 C02F1/24 C02F1/34 C02F1/36 C02F1/48 C02F1/72 C02F1/74 C02F1/76 C02F1/78 C02F11/00

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C02F1/76 C02F1/78 (Core/Non-invention)

International class (IPC 1-7): A61L13/06 B01D21/02 B01D21/24 B01D53/14 B01F11/00 B01F3/04 B01F5/04 B01J1/00 B01J1/14 B01J10/00 B05B3/06 C01B13/10 C01B13/11 C02B1/34 C02B1/36 C02B1/38 C02B3/06 C02B3/08 C02C1/00 C02C1/02 C02C1/04 C02C1/06 C02C1/08 C02C1/26 C02C1/40 C02C5/00 C02C5/04 C02F3/14 C02F7/00 F15D1/02 F16F15/00 F16K19/00 F16L55/00 F16L55/04 F17D1/20

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European class: A47K10/06 A47K10/30 A61L11/00 A61L2/16 A61L2/20 A61L2/20C B01D21/00 B01D21/01 B01D21/14 B01D21/24 B01D47/00 B01D53/34 B01F11/02B B01F5/04C13B B01F5/06F C01B13/10 C01B13/11 C02F1/24 C02F1/34 C02F1/36 C02F1/48 C02F1/72 C02F1/78 C02F3/00R C02F3/02 C02F3/04 C02F3/04C C02F3/12A2 C02F3/12V2 C02F3/12V6 C02F3/20 C02F3/26 C02F3/30 C02F3/30D C02F3/34 C02F9/00 F16L55/02 F16L55/045 M01B201/66 M02F1/76 M02F1/78 M02F307/08

US class: 137/207 137/604 137/888 138/115 210/0.6 210/151 210/19.5 210/192 210/194 210/195.1 210/195.3 210/199 210/202 210/203 210/220 210/273 210/519 210/60 210/61 210/614 210/615 210/622 210/625 210/629 210/631 210/752 210/756 210/758 210/760 210/764 210/765 210/96.2 219/342 219/385 219/521 219/541 239/254 239/550 248/214 248/317 261/116 261/76 261/78.2 34/239 392/436 422/186.14 422/186.2 422/28 422/39 423/210 423/659 423/DIG.17 423/DIG.9 55/9.3 588/900

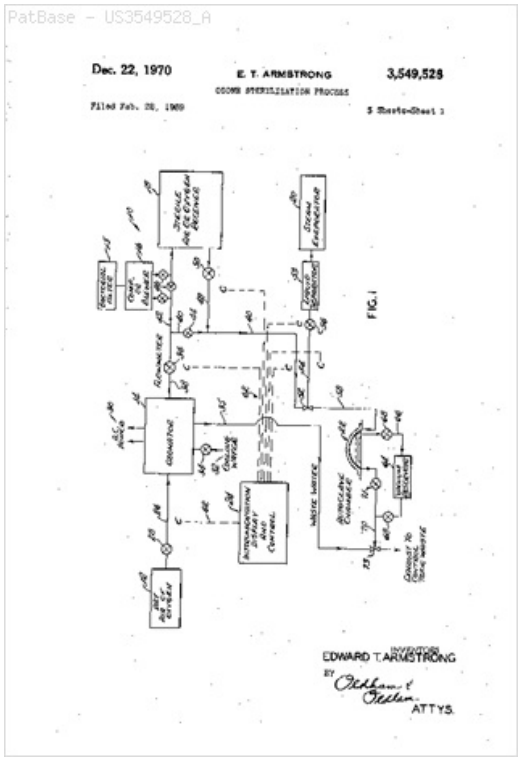
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Forward Citations: WO9832522, WO9822386, WO9614884, WO9603542, WO9306948, WO9219547, WO9217275, WO9201634, WO9112889, WO8202192, WO13142412, WO13082467, WO09112208, WO08134435, WO07103588, WO07103588, WO04028982, WO04004936, WO04004936, WO03059527, WO0189960, WO0177032, WO0015564, USRE40408, USRE32616, USD626639, USD625796, USD621014, US9784121, US9702372, US9636715, US9556040, US9222040, US9181046, US9156631, US8983667, US8951412, US8920644, US8795620, US8784762, US8641902, US8600568, US8594851, US8544827, US8481895, US8480862, US8460549, US8409439, US8272280, US8211306, US7892502, US7841103, US7802376, US7730907, US7722763, US7658891, US7491324, US7470172, US7347139, US7140492, US7083510, US6994111, US6903307, US6878279, US6872366, US6847011, US6796436, US6793897, US6793884, US6739073, US6709577, US6682057, US6639185, US6551182, US6511594, US6464875, US6458398, US6431360, US6413418, US6372128, US6348227, US6334979, US6290857, US6284193, US6167709, US6162359, US6153862, US6132678, US6115862, US6050284, US6006387, US5976384, US5945391, US5904170, US5879732, US5868999, US5842287, US5839473, US5820541, US5792342, US5763382, US5705468, US5674459, US5645608, US5641401, US5635077, US5618492, US5609766, US5606640, US5595713, US5591349, US5573730, US5573670, US5540847, US5527454, US5520893, US5509955, US5493743, US5441640, US5433142, US5364529, US5364505, US5346617, US5322623, US5318708, US5308480, US5269943, US5266216, US5262047, US5250177, US5227184, US5227144, US5205927, US5180499, US5174905, US5173257, US5151250, US5141722, US5130032, US5120452, US5116574, US5110459, US5102548, US5078965, US5077007, US5061377, US5057191, US4985129, US4978445, US4927995, US4874435, US4865749, US4863701, US4746489, US4700048, US4680169, US4648978, US4614589, US4559442, US4517159, US4484367, US4439317, US4410339, US4377486, US4369115, US4364917, US4350587, US4340471, US4216185, US4207179, US4178239, US4176061, US4172781, US4168228, US4138724, US4117309, US4076617, US4070279, US4045336, US4043913, US4042509, US4013553, US3997437, US3979294, US3942941, US3931012, US3912636, US3882017, US3853764, US3853760, US3822786, US2015203391, US2014217732, US2014076788, US2012222994, US2012090561, US2011192795, US2011132820, US2011108122, US2010051522, US2009230119, US2008283475, US2008164199, US2008083674, US2008014113, US2007215226, US2007084769, US2007020160, US2006261013, US2006138120, US2006138119, US2006112589, US2006070990, US2005238776, US2005220665, US2005129571, US2004262241, US2004140576, US2003175180, US2003159989, US2003132145, US2003035764, US2003019818, GB2150945, GB2128980, FR2858048, FR2799456, FR2758813, FR2668765, FR2548655, FR2439749, FR2234231, ES2088825, EP2200760, EP0968045, EP0541076, EP0537563, EP0222309, EP0064960, EP0010473, DE3404722, BE1004260, AU2008243103, AU2007223742,

Abstract:
Source: US3549528A ABSTRACT OF THE DISCLOSURE
A unique utilization of oxygen and ozone generated from oxygen in a gaseous form singly or in combination as from air, or a carbon dioxide-oxygen mixture used as 15 a solution or with superheated water vapor is contemplated in process and **apparatus**. A sterilant is made by passing a **fluid** in a flow dominated by a hydraulic pressure gradient characterized by an overall pressure drop per unit of **line** length reduced from the gravitational 20 gradient pressure drop per unit of **line** length of one foot of **fluid** per foot of distance by several orders of magnitude, substantially uninfluenced by the gravitational pressure gradient incidentally present creating local areas of high momentum exchange at restrictions in the flow, and 25 introducing gaseous oxygen-ozone into the liquid at these points where the static pressure is regained thus modifying the velocity profile in fully developed turbulent flow to achieve maximum uniformity of oxygen-ozone concentration throughout the **fluid** whereby the solubility 30 of the oxygen-ozone into the **fluid** is greatly enhanced. Further, this process may also be operated at a reduced incident gas content in the **fluid** and possibly at a temperature reduced to increase the solubility of oxygen-ozone, and sterilization within the **fluid** conduit or con- 35 tainer takes place during a distance in which the hydraulic pressure gradient is continuously imposed to ensure maximum solubility of the oxygen-ozone into the **fluid** by reason of intense mixing and restricted pressure change.

PatBase - US3549528_A



8) Family number: 30395109 (US3598122A)

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Title: BANDAGE FOR ADMINISTERING DRUGS

Priority:

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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: ALZA CORP PALO ALTO CALIF V ST A

Assignee(s):(std)**:** ALZA CORP ; ZAFFARONI ALEJANDRO ; ALZA PALO ALTO CALIFORNIE VER ST V AM CORP ; ALZA TE PALO ALTO CALIFORNIE VER ST V CORP ; ALZA CORP 950 PAGE MILL ROAD PALO ALTO COMTE DE S

Assignee(s): ALZA CORP 950 PAGE MILL ROAD PALO ALTO COMTE DE SA ; ALZA CORP 950 PAGE MILL ROAD PALO ALTO COMTE DE SANTA CLARA CALIFORNIE E U A ; ALZA CORP PALO ALTO CALIF V ST A ; ALZA TE PALO ALTO CALIFORNIE VER ST V AM CORP ; ALZA CORP PALO ALTO CALIF ; ALZA CORP 950 PAGE MILL ROAD PALO ALTO COMTE DE ; ALEJANDRO ZAFFARONI ; ALZA COR US ; ALZA CORP 94304 PALO ALTO CALIF US ; ALZA CORP 950 PAGE MILL ROAD PALO ALTO ; ALZA CORP 950 PAGE MILL ROAD PALO ALTO CALIFORNIE ; ALZA CORP 950 PAGE MILL ROAD PALO ALTO CALIFORNIE 94304 E U A ; ALZA CORP US

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Agent(s): AE MULFORD

International class (IPC 8-9): A61D7/00 A61F13/00 A61F13/14 A61F13/20 A61F6/14 A61F9/00 A61J7/00 A61K47/30 A61K47/32 A61K47/34 A61K9/00 A61K9/02 A61K9/22 A61K9/24 A61K9/70 A61L15/00 A61L15/44 A61L15/58 A61M23/00 A61M31/00 A61M37/00 C07J7/00 (Advanced/Invention);
A61L15/00 (Advanced/Non-invention);
A61D7/00 A61F13/00 A61F13/14 A61F13/20 A61F6/00 A61F9/00 A61J A61J7/00 A61K47/30 A61K47/32 A61K47/34 A61K9/00 A61K9/02 A61K9/22 A61K9/24 A61K9/70 A61L A61L15/00 A61L15/16 A61M23/00 A61M31/00 A61M37/00 C07J7/00 (Core/Invention);
A61L15/00 (Core/Non-invention);
A61J A61L (Subclass/Invention)

International class (IPC 1-7): A61F13/00 A61F13/14 A61F13/18 A61F13/20 A61F5/46 A61F6/14 A61F7/02 A61J1/00 A61J3/00 A61J7/00 A61K27/00 A61K9/00 A61K9/04 A61K9/16 A61K9/22 A61K9/24 A61K9/58 A61L15/00 A61L15/03 A61L15/06 A61M23/00 A61M31/00 A61M37/00 A61M5/00 A61M7/00

CPC: A61K9/7061 A61K9/7069 A61K9/7084 A61K9/7092 A61K9/0036 A61F6/144 A61K9/0092 A61M31/002 A61L15/58 A61F9/0017 A61K9/7053 A61K9/7076 A61L15/44 A61L2300/41 A61L2300/416 A61L2300/432 A61L2300/602 A61L2300/622 A61M37/00 A61K9/0004 A61D7/00 A61K9/0039 A61K9/7007 A61F6/14 A61K9/0024 A61K9/009 A61F6/142 C07J7/007 A61F13/00063 A61F2013/00604 A61F2013/00714 A61F2013/0091

European class: A61F13/00 A61F13/00B6 A61F6/14 A61F6/14B A61F6/14B2 A61F9/00B2 A61K9/00L4 A61K9/00M5D A61K9/00Z2 A61K9/70E2B6B A61K9/70E2B6B2 A61K9/70E2B8 A61K9/70E2D A61K9/70E2K A61L15/44 A61L15/58 A61M31/00D C07J7/00B2B K61F13/00L12B K61F13/00L2K K61F13/00L3P K61L300/410 K61L300/416 K61L300/432 K61L300/602 K61L300/622

US class: 128/127 128/130 128/26.0 128/26.8 128/26.9 128/260 128/268 128/833 401/132 424/22 424/423 424/424 424/425 424/426 424/430 424/431 424/432 424/433 424/434 424/435 424/436 424/437 424/448 424/449 424/473 424/486 424/488 514/179 604/11 604/304 604/515 604/516 604/57

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Abstract:
Source: US3598122A Bandage for use in the continuous administration of systemically active drugs by absorption through the skin or oral mucosa comprising a backing member having on one surface thereof a reservoir containing a systemically active drug. The reservoir has a wall distant from the backing member and permeable to passage of the drug. A pressure-sensitive adhesive layer, also permeable to passage of the drug, is carried by the reservoir. The drug is in a form acceptable for absorption through the skin or the mucosa of the mouth.

PatBase - US3598122_A

Fig. 1

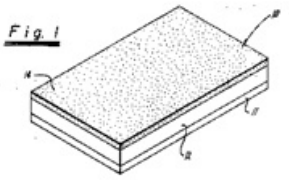


Fig. 2

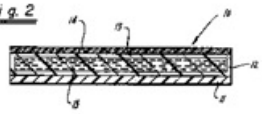
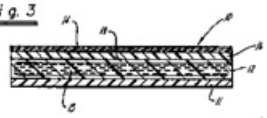


Fig. 3



INVENTOR.
Alejandro Zaffaroni
BY Bean, Brown & Bakkey
Attorney

9) Family number: 25101760 (US3792700A)

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Title: **APPARATUS** AND METHOD OF MONITORING THE ELECTRICAL ACTIVITY OF THE HEART OF A HUMAN WITH ARMPIT LOCATED ELECTRODES

Priority:
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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: BRUNSWICK BIOMEDICAL CORP

Assignee(s):(std)**:** F HOFFMANN LA ROCHE AND CIE S A GRENZACHERSTRAS ; HOFFMANN LA ROCHE ; HOFFMANN F LA ROCHE AND CO AG CH ; HOFFMANN LA ROCHE LTD ; HOFFMANN LA ROCHE ET CIE SA CH ; SURVIVAL TECHNOLOGY INC ; SPARAMEDICA AG ; SURVIVAL TECHNOLOGY INC BETHESDA MARYLAND VER ST ; SURVIVAL TECHNOLOGY INC US ; SURVIVAL TECHNOLOGY INC TE BETHESDA MARYLAND VER S ; SURVIVAL TECHNOLOGY INC 7801 WOODMONT AVENUE BETH ; SURIVAL TECHNOLOGY INC ; SURVIVAL TECHNOLOGY

Assignee(s): SURVIVAL TECHNOLOGY INC 7801 WOODMONT AVENUE BETHESDA MARYLAND E U A ; SURVIVAL TECHNOLOGY INC BETHESDA MARYLAND VER ST V AM ; SURVIVAL TECHNOLOGY INC TE BETHESDA MARYLAND VER ST V AM ; SARNOFF STANLEY J ; SURVIVAL TECH INC ; SURVIVAL TECHNOLOGY INC BETHESDA MD US ; SURVIVAL TECHNOLOGY INC BETHESDA MD V ST A ; SURVIVAL TECHNOLOGY INC 7801 WOODMONT AVENUE BETHE ; SURVIVAL TECHNOLOGY INC BETHESDA MARYLAND VER ST V ; HOFFMANN LA ROCHE LIMITED ; HOFFMANN LA ROCHE F AND CO A G ; HOFFMANN LA ROCHE F AND CO AG ; ROCHE MEDICAL ELECTRONICS INC A CORP OF NJ ; INT NEDERLANDEN (US) CAPITAL CORP ; ING (US) CORP ; REINHOLD HERBERT E ; ING US CORP ; INT NEDERLANDEN US CAPITAL CORP ; HOFFMANN LA ROCHE CO F AG ; HOFFMANN LA ROCHE ET CIE CH SA ; HOFFMANN LA ROCHE F ; F HOFFMANN LA ROCHE AND CIE S A GRENZACHERSTRASS ; F HOFFMANN LA ROCHE AND CIE S A GRENZACHERSTRASSE 124 CH 4002 BALE SUISSE ; FHOFFMANN LA ROCHE AND CO ; F HOFFMANN LA ROCHE AND CIE SA ; HOFFMANN F LA ROCHE AND CO CH AG ; F HOFFMANN LAROCHE AND CO AG ; KONTRON INC ; ROCHE MEDICAL ELECTRONICS INC ; INT NEDERLANDEN CAPITAL CORP ; ING CORP ; HOFFMANN LAROCHE INC US ; HOFFMANN LA ROCHE CO AG F ; FIRST PENNSYLVANIA BANK NA ; F HOFFMANN LA ROCHE AND CO AG ; BRUNSWICK BIOMEDICAL CORP ; ERNST HEINI ; F HOFFMANN LA ROCHE AND CIE ; F HOFFMANN LA ROCHE AND CIE S A

Inventor(s):(std)**:** STANLEY JAY SARNOFF ; STANLEY J SARNOFF ET HERBERT E REINHOLD JR ; STANLEY J SARNOFF ; SJ SARNOFF ; SARNOFF STANLEY JAY ; SARNOFF S ; REINHOLD JUN HERBERT EDWARD ; REINHOLD JUN HERBERT E ; REINHOLD HERBERT E ; HERBERT E REINHOLD JR ; HEINI ERNST ; HE REINHOLD ; ERNST HEINI DR ; ERNST HEINI ; ERNST H CH ; ERNST H ; SARNOFF STANLEY J ; REINHOLD HERBERT E JR ; SARNOFF S J ; REINHOLD JR HERBERT E ; REINHOLD H E ; SARNOFF JR R ; REINHOLD H

Inventor(s): JAY SARNOFF STANLEY ; E REINHOLD JUN ; H E REINHOLD ; REINHOLD H US ; REINHOLD JUN ; S J SARNOFF ; SARNOFF S US ; SARNOFF STANLEY JAY BETHESDA MD US ; SARNOFF STANLEY JAY BETHESDA MD ; SARNOFF STANLEY JAY BETHESDA

Agent(s): REINHOLD COHN AND PARTNERS

International class (IPC 8-9): A61B5/00 A61B5/02 A61B5/024 A61B5/0245 A61B5/04 A61B5/0404 A61B5/0408 A61M16/20 F15C3/00 (Advanced/Invention);
A61B7/04 F15C3/00 (Advanced/Non-invention);
A61B5/00 A61B5/02 A61B5/024 A61B5/04 A61B5/0402 A61B5/0408 A61M16/20 F15C3/00 (Core/Invention);
A61B7/00 (Core/Non-invention)

International class (IPC 1-7): A61B5/00 A61B5/02 A61B5/04 A61B7/04 A61G12/00 A61H31/00 A61J7/00 A61M16/00 A61M5/20 A61M5/24 A61N1/36 A62B9/02 F15C1/00 F15D1/10 F16K11/00 F16K15/00 F16K51/00 G01N21/48 G05D7/00 G08B21/00 G08B25/00 G08B7/06 G08C25/04 H01B5/16

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European class: A61B5/00B A61B5/00B2 A61B5/00B3B A61B5/024 A61B5/024F A61B5/0404 A61B5/41B A61M16/20B

US class: 128/0.2.06R 128/2.05T 128/2.06R 128/205.24 128/205T 128/904 137/56.1R 137/561R 417/187 600/384 600/393 600/500 600/523 600/524 604/506

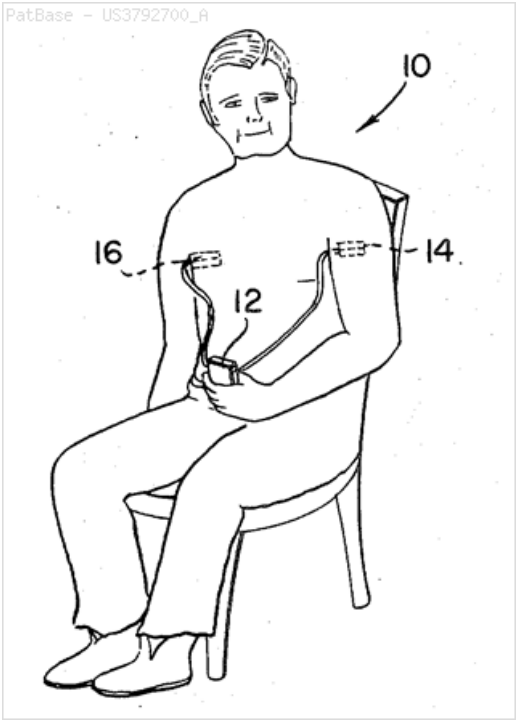
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Abstract:
Source: US3792700A **Apparatus** and method for quickly, easily and reliably monitoring the electrical activity of the heart of a human. In the exemplary embodiment there is provided an electrode construction for use with well-known cardiac monitoring means comprising a carbon impregnated plastic body having a conductive grid embedded therein with a lead electrically **connected** thereto and extending from the body. These electrodes are adapted for placement and retention in the user's armpits to pick up the heartbeat signal and transmit it to the cardiac monitor.



10) Family number: 30467656 (US3820894A)

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Title: **APPARATUS** AND METHOD FOR PRODUCING HIGH REGISTRATION PHOTO MASKS

Priority:

CA19710130959 19711223 CH19710019086 19711228 GB19710058814 19711217
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Family:

Publication number	Publication date	Application number	Application date
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WO9204673 A1	19920319	WO1991US06285	19910903

Probable Assignee: SAID MICRO COMPUTER INC BY SAI

Assignee(s):(std)**:** HYATT GILBERT P ; HYATT GILBERT PETER ; SAID MICRO COMPUTER INC BY SAI ; EGYESUELT IZZOLAMPA ; HYATT G

Assignee(s): HYATT G US ; SAID MICRO COMPUTER INC BY SAID BARRY T LEE RALPH ; SAID MICRO COMPUTER INC BY SAID BARRY T LEE RALPH V COLE GUNTHER W WIMMER

Inventor(s):(std)**:** COLE RALPH V ; HIRSCH IRVING ; HYATT G ; HYATT GILBERT P ; HYATT GILBERT PETER ; KEREKES B ; KEREKES BELA ; KEREKES BELA DIPL ING ; LEE BARRY T ; WIMMER GUNTHER W

Inventor(s): HYATT G US

Agent(s): GOWLING LAFLEUR HENDERSON LLP

Designated states: AT BE CA CH DE DK ES FR GB GR IT JP KR LU NL SE

International class (IPC 8-9): B41F33/10 B41F33/16 B60R16/02 B60R16/037 F21V23/00 G01B11/26 G01J1/42 G01R15/00 G01S15/89 G01S3/80 G01S3/86 G01S7/52 G01V1/28 G02B26/02 G02F1/01 G02F1/13 G02F1/133 G03B27/04 G03B27/52 G03B9/00 G03F7/20 G03F9/00 G04G99/00 G05B1/03 G05B15/00 G05B19/18 G05B19/35 G05B19/408 G05B19/409 G05B19/4093 G05B19/414 G05D25/02 G05D3/20 G06F12/00 G06F12/02 G06F13/10 G06F13/12 G06F13/16 G06F15/00 G06F17/10 G06F17/14 G06F19/00 G06F3/00 G06F3/023 G06F3/033 G06F3/038 G06F3/14 G06F3/147 G06F3/16 G06F9/22 G06F9/46 G06J1/00 G06K9/40 G06T1/20 G06T3/00 G07G1/12 G09G3/36 G09G5/00 G09G5/18 G09G5/20 G10L15/22 G10L19/00 G11C11/406 G11C11/56 G11C17/10 G11C19/18 G11C19/28 G11C19/36 G11C27/00 G11C27/02 G11C27/04 H03H17/02 H04N3/10 H04N5/66 H04N5/74 H04N9/31 (Advanced/Invention); G03F7/20 G03F9/00 G06F15/00 G06F3/023 G06F3/14 G06F3/147 (Core/Invention)

International class (IPC 1-7): G01J1/32 G01S9/66 G01V1/00 G01V1/28 G02F1/13 G03B19/00 G03B27/02 G03B27/04 G03B27/32 G03B27/52 G03H3/00 G05B1/01 G05B1/02 G05B15/00 G05B19/02 G05B19/18 G06F1/00 G06F11/00 G06F12/00 G06F12/02 G06F13/00 G06F15/00 G06F15/20 G06F15/31 G06F15/332 G06F15/336 G06F15/34 G06F15/40 G06F15/46 G06F17/14 G06F3/00 G06F3/02 G06F3/14 G06F3/16 G06F7/00 G06F9/06 G06F9/18 G06F9/22 G06J1/00 G06K9/00 G09G1/28 G09G3/36 G09G5/00 G11C11/00 G11C11/40 G11C13/00 G11C17/00 G11C27/00 G11C7/00 H01J61/12 H01J61/30 H04M1/00 H04N5/66 H04N5/74 H04N9/31

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European class: B60R16/02B6D B60R16/037B F21V23/00 G01S15/89D5B G01S15/89D6 G01S7/52S2B1 G02F1/01D G02F1/133D2 G03F7/20T22 G03F7/70L10D G03F7/70L2H G03F9/70D G03F9/70M G04G99/00M G05B19/35C G05B19/408 G05B19/408A G05B19/408C G05B19/409 G05B19/4093 G05B19/414 G05B19/414K G06F12/02C G06F13/12 G06F13/12B G06F13/16 G06F3/023A5 G06F3/02A5 G06F3/033Z9 G06F3/038E G06F3/147 G06J1/00 G06Q20/209 G07G1/12 G09G5/18 G09G5/20 G10L19/00 G11C11/56E G11C13/00R25D G11C16/34D G11C16/34D6 G11C19/00M6 G11C19/28C G11C19/36 G11C27/00 G11C27/02C G11C27/04 G11C7/10M5 G11C7/10M6 H03H17/02G2C L65H557/2644 S05B219/23094 S05B219/33182 S05B219/34023 S05B219/34098 S05B219/34471 S05B219/34472 S05B219/35262 S05B219/35263 S05B219/35373 S05B219/35381 S05B219/35431 S05B219/35436 S05B219/35453 S05B219/35472 S05B219/35554 S05B219/35588 S05B219/36152 S05B219/36227 S05B219/36333 S05B219/36366 S05B219/36379 S05B219/36395 S05B219/36502 S05B219/36503 S05B219/36506 S05B219/36546 S05B219/41021 S05B219/42237 S05B219/45214 S05B219/45215 S05B219/49221 S05B219/50047 S05B219/50048 S05B219/50083 S05B219/50151 S06F12/02C S11C13/04 S11C7/16 T05K999/99

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364/131 364/137 364/167 364/171 364/182 364/183 364/188 364/200 364/232 364/232.8 364/237.2 364/238.6 364/239 364/239.1 364/239.3 364/243 364/244 364/244.3 364/246.91 364/249 364/249.1 364/249.2 364/252 364/259 364/259.4 364/421 364/474 364/474.01 364/514 364/518 364/521 364/572 364/600 364/602 364/604 364/72.4 364/724 364/724.01 364/724.03 364/724.04 364/724.18 364/726 364/728 364/728.03 364/747 364/862 364/900 364/DIG.1 364/DIG.2 365/1 365/103 365/183 365/189.01 365/189.011 365/189.16 365/222 365/230.01 365/230.06 365/233.11 365/45 367/103 367/11 367/123 367/41 367/43 367/59 367/8 367/9 379/909 382/260 382/263 382/276 382/69 395/375 395/401 395/421.04 395/432 395/438 395/494 395/800 396/548 446/302 700/1 700/180 700/184 700/192 700/194 700/2 700/78 700/8 700/83 702/17 702/190 704/203 704/258 704/269 704/270 704/275 705/24 708/1 708/167 708/172 708/3 708/300 708/306 708/307 708/308 708/321 708/403 708/404 708/406 708/422 708/423 708/494 708/5 710/67 710/73 711/1 711/100 711/105 711/106 711/109 711/111 711/167 711/214 711/218 711/E12.004 712/32 715/700 716/19 716/55 84/645 84/723 968/900

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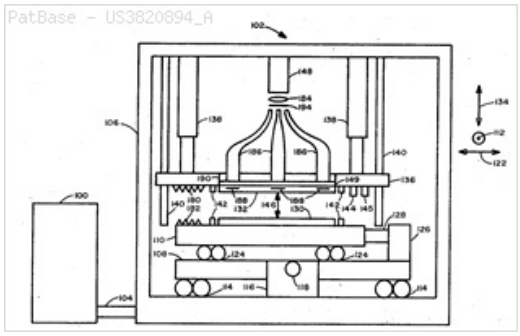
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Abstract:
Source: US3820894A A system is provided for producing high registration photo-optical masks. A control system generates signals to a step and repeat contact printing machine that exposes many prints of the master die images on a photographic film, where these prints have a high registration characteristic. Claims, 10 Drawing Figures


PatBase - US3820894_A

11) Family number: 24051972 (US3809977A)

Title: ULTRASONIC KITS AND MOTOR SYSTEMS

Priority: CA19720134586 19720211 CA19740211449 19741015 US19710209971 19711220 US19710119298 19710226 US19740451174 19740314 US19720318428 19721226 US19750544134 19750127

Family:

Publication number	Publication date	Application number	Application date
CA1006723 A1	19770315	CA19740211449	19741015
CA1006723 A2	19770315	CA19740211449	19741015
CA959679 A1	19741224	CA19720134586	19720211
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US3980906 A	19760914	US19740451174	19740314
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Probable Assignee: XYGIENE INC

Assignee(s):(std)**:** ULTRASONIC SYSTEMS ; XYGIENE INC ; ULTRASONIC SYSTEMS INC

Assignee(s): ULTRASONIC SYST INC US ; BALAMUTH LEWIS ; KARATJAS MANUEL ; KURIS ARTHUR ; ULTRASONIC SYS INC US

Inventor(s):(std)**:** KURIS ARTHUR ; KURIS A ; KARATJAS MANUEL ; KARATJAS M ; BALAMUTH LEWIS ; BALAMUTH L

Inventor(s): KURIS A US ; KARATJAS M US ; BALAMUTH L US

International class (IPC 8-9): A61C1/07 A61C17/20 A61C3/08 B23Q1/00 B26B21/38 (Advanced/Invention); A61C1/00 A61C17/16 A61C3/00 B23Q1/00 B26B21/08 (Core/Invention)

International class (IPC 1-7): A46B13/02 A61C15/00 A61C17/00 A61C17/20 A61C3/00 A61C3/06 A61C5/00 A61C7/00 A61H1/00 A61H7/00 B06B1/00 B06B1/02 B06B1/06 B25D17/00 B29C27/08 C07C41/08 H01L41/08 H01V7/00 H04R17/00 H04R3/00

CPC: A61C3/08 B26B21/38 B21J15/02 B21J15/12 B29C66/8322 B29L2031/425 B29L2031/7186 B29C66/81423 B29C66/9513 A61C1/07 A61C17/20 B29C65/08 B29C66/861 B23Q1/0036 B29C65/601 B29C66/1122 B29C66/43 B29C66/7392 B29C66/742 B29C66/81431 B29C66/8167 B29C66/9511 B29C66/9512

European class: A61C1/07 A61C17/20 A61C3/08 B21J15/02 B21J15/12 B23Q1/00B2B2 B26B21/38 B29C65/08 B29C66/8167 B29C66/861 L29C66/861 L29L31/28B L29L31/30L L29L31/42B L29L31/52B2 L29L31/7186

US class: 15/22.1 206/228 206/352 206/370 206/570 206/575 206/581 310/316.01 310/317 310/325 310/328 310/8.1 318/11.6 318/116 331/116R 331/173 433/119 433/125 433/216 433/86 601/142 601/15 601/2

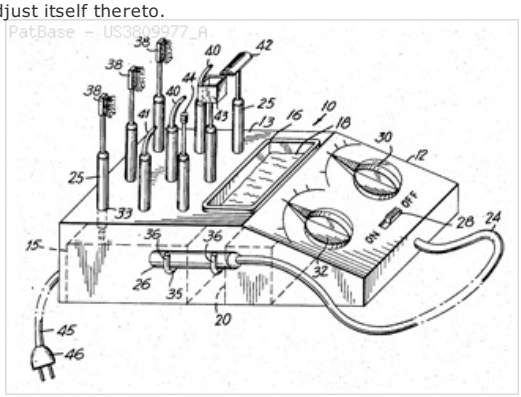
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Abstract:
Source: US3809977A The invention discloses various embodiments of an ultrasonic kit adapted to be used in the home or for industrial purposes, as well as a variety of ultrasonic motor constructions and ultrasonic converter designs to be used either individually or in combination with each other. The ultrasonic motor is generally of a piezoelectric material having a removable tip or of a design in which the complete motor is contained in a housing, which housing has electrical contact means adapted to be plugged into an adapter which, in turn, is **connected** to a converter. The motor may be designed such that frequency sensing is provided therein and the feedback signal is utilized by the generator to adjust itself thereto.



12) Family number: 10840023 (US3719182A)

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Title: AUGMENTATION OF THE PRODUCTION OF ANTIBODIES IN ANIMALS AND HUMANS AND THE COLLECTION THEREOF

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International class (IPC 8-9): A61K35/14 A61K35/26 A61K35/28 A61K35/32 A61K35/34 A61K35/55 A61K39/00 A61M1/02 A61M1/36 B04B1/00 B04B5/04 C07K16/00 C07K16/06 C07K16/30 C12M1/00 C12N5/02 C12N5/06 C12P19/00 F04B43/10 F04B9/02 G01N33/48 (Advanced/Invention);
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A61M1/36 (Core/Non-invention);
A61K A61M (Subclass/Invention)

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Abstract:
Source: US3719182A ABSTRACT OF THE DISCLOSURE
It has been found that very large production of antibodies can be achieved by removing specific feedback regulatory antibodies by means of a lymphoresis per- 15 formed under special conditions in a patient or subject (e.g., an animal or human) with induced anatomical and physiological changes. The subject is first given antigen administration then, preferably, but not mandatorily, is splenectomized. A 20 thoracic duct fistula is next performed. The central venous system pressure is then preferably raised so that it is above the atmospheric pressure of the thoracic duct. In this manner, substantially all the lympth **fluid** is allowed to flow out of the thoracic duct from the fistula (through an 25 indwelling catheter) for a prolonged period of time. The lymph is separated into cells and lymph **fluid**. The cells are returned to the subject intravenously. The subject must be given replacement **fluid**, which can be of several kinds, but all lacking the specific antibody. By virtue of the above procedure, the plasma and extracellular **fluid** of the subject is continuously depleted of feedback antibody because the antibody is continuously removed prior to its reaching the blood stream. Because of this lack of antibody, in the presence of antigen admin- 35 istration, it is found that the antibody production in the lymphoid tissue and therefore its content in the lymph **fluid** is enormous and ever-increases. The tremendous increase in antibody production appears to be several orders of magnitude greater than other modes of antibody production and therefore appears to have very substantial utility in the fields of biology, chemistry and veterinary and clinical medicine.

PatBase - US3719182_A

March 6, 1973 S. ROSE 3,719,182

AUGMENTATION OF THE PRODUCTION OF ANTIBODIES IN ANIMALS AND HUMANS AND THE COLLECTION THEREOF

Filed April 22, 1971 2 Sheets-Sheet 1

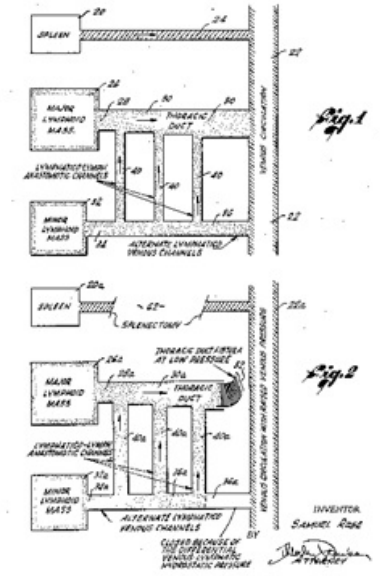


Fig. 1

Fig. 2

INVENTOR.
SAMUEL ROSE
BY
ATTORNEY

13) Family number: 2151761 (US3741204A)

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Title: METHOD OF TREATING BONE FRACTURES AND NON-UNIONS

Priority:
AU19730057311 19730625 US19710113362 19710208 US19710123830 19710312
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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: OXFORD HILL LTD

Assignee(s):(std)**:** JERARUDEIIN EICHI SHIIRU ; OXFORD HILL LTD ; THIELE G ; THIELE G H ; THIELE GERALDINE H ; THIELE GERALDINE ; GERALDINE H THIELE

Assignee(s): GERALDINE HUDSON CORP ; GERALDINE HUDSON INC ; THIELE GLENN E ; THIELE GERALDINE US ; THIELE G US ; THIELE GERALDINE H WINDBER PA V ST A ; THIELE GERALDINE H GLEN HAVEN FARMS ROUTE 1 BOX 12 WINDBER PA 15693 E U A

Inventor(s):(std)**:** JERARUDEIIN EICHI SHIIRU ; THIELE G ; THIELE GERALDINE H ; YANKELL SAMUEL L

Inventor(s): GERALDINE H THIELE ; THIELE GERALDINE H WINDBER PA V ST A ; THIELE G US

Agent(s): AE MULFORD

International class (IPC 8-9): A01N25/08 A01N37/06 A61B17/58 A61B17/88 A61K31/185 A61K31/19 A61K31/20 A61K31/201 A61K31/23 A61K31/45 A61K45/08 A61K8/36 A61K9/00 A61Q11/00 C14C1/02 (Advanced/Invention); A01N25/08 A01N37/06 A61B17/58 A61K31/185 A61K31/21 A61K31/45 A61K45/00 A61K8/30 A61K9/00 A61Q11/00 C14C1/00 (Core/Invention)

International class (IPC 1-7): A01N25/08 A01N35/02 A01N37/00 A01N37/06 A61B17/00 A61B17/18 A61B17/4 A61F5/0 A61F5/01 A61K27/00 A61K31/00 A61K31/045 A61K31/19 A61K31/20 A61K31/45 A61K45/00 A61K7/16 A61K7/36 A61K7/46 A61K9/00 C14C1/00 C14C11/00 C14C5/00

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US class: 128/9.2G 128/92G 128/92R 424/315 424/318 424/343 424/49 424/555 424/57 514/557 514/558 514/560 514/576 514/578 514/60 514/724 606/214 606/60 606/76 606/93 8/94.18 8/94.22 8/94.23

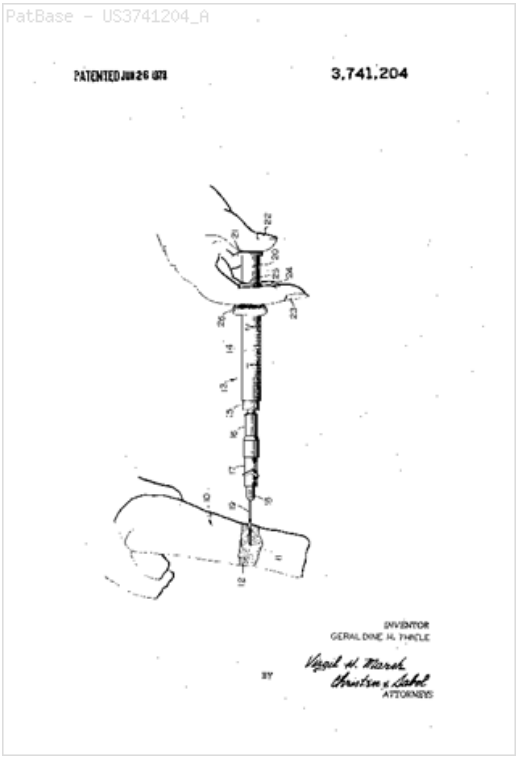
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Forward Citations: WO9902149, WO9701623, WO9701621, WO9515732, WO9322271, WO9104008, WO8906945, WO8704926, WO8704926, WO08140469, WO07092633, WO07092633, WO05099658, WO03013461, WO03013461, WO0209524, USRE41883, USRE32990, US9724278, US9682025, US9579142, US9532827, US9517030, US9408658, US9333060, US9308326, US9271565, US9103738, US8984952, US8943895, US8865135, US8747406, US8734441, US8685309, US8603528, US8591508, US8513305, US8475773, US8466335, US8337879, US8309131, US8287843, US8235979, US8197797, US8105628, US8100300, US7989000, US7988702, US7971738, US7955616, US7955296, US7951232, US7919680, US7833539, US7819864, US7819861, US7771422, US7713269, US7667095, US7666205, US7549989, US7445619, US7427283, US7399742, US7357947, US7354438, US7141054, US7105011, US7013838, US6903052, US6887900, US6869436, US6867233, US6831050, US6821940, US6808729, US6805836, US6800789, US6770267, US6662813, US6613731, US6596401, US6579539, US6565884, US6547794, US6465521, US6455086, US6352700, US6302969, US6297278, US6214889, US6126960, US5885594, US5819497, US5804210, US5788976, US5599840, US5515117, US5514137, US5468776, US5416114, US5401496, US5389676, US5340583, US5331009, US5288755, US5275804, US5268174, US5260336, US5252333, US5225441, US5214035, US5165913, US5070104, US5043183, US5017369, US4915936, US4913895, US4910224, US4908384, US4863719, US4851431, US4851398, US4839158, US4834969, US4810195,

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Abstract:
Source: US3741204A Fractures and nonunions of bones are more readily healed without muscle atrophy, etc., by **injecting** a liquefied composition containing a non-necrotic vascular sclerosing agent into the site of the fracture or nonunion. No cast is used. The preferred non-necrotic vascular sclerosing agent is sodium morrhuate.



14) Family number: 3790934 (US3774762A)

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Title: ANALOGUE **FLUID** FLOW PROGRAMMING STRUCTURES

Priority:

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Family:

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Probable Assignee: LICHTENSTEIN E S

Assignee(s):(std)**:** ELMAR MEDICAL SYSTEMS LTD ; LICHTENSTEIN E ; LICHTENSTEIN E S ; LICHTENSTEIN ERIC ; LICHTENSTEIN ERIC STEFAN ; STEFAN LICHTENSTEIN

Assignee(s): LIOR ROSENBERG ; LICHTENSTEIN ES ; LICHTENSTEIN ERIC STEFAN GREENWICH CONN VSTA ; LICHTENSTEIN ERIC US ; LICHTENSTEIN ERIC S ; LICHTENSTEIN ERIC STEFAN GREENWICH CONN V ST A ; LICHTENSTEIN E US ; ERIC S LICHTENSTEIN ; ERIC STEFAN LICHTENSTEIN

Inventor(s):(std)**:** LICHTENSTEIN ERIC S ; LICHTENSTEIN E ; LICHTENSTEIN ERIC STEFAN

Inventor(s): E LICHTENSTEIN ; ERIC STEFAN LICHTENSTEIN ; LICHTENSTEIN ERIC STEFAN GREENWICH CONN V ST A ; LICHTENSTEIN E US ; LICHTENSTEIN ERIC STEFAN GREENWICH CONN VSTA

Agent(s): REINHOLD COHN AND PARTNERS; BENJAMIN J BARISH

Designated states: AU CH DE FR GB JP LI SE

International class (IPC 8-9): A61B5/00 A61B5/02 A61M1/00 A61M1/02 A61M1/10 A61M1/14 A61M1/16 A61M1/36 A61M3/02 A61M5/00 F04B43/06 (Advanced/Invention);
A61B5/00 A61J1/12 A61J1/14 A61M1/14 A61M1/34 A61M1/36 (Advanced/Non-invention);
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A61J1/10 A61J1/14 A61M1/34 A61M1/36 (Core/Non-invention)

International class (IPC 1-7): A61B5/00 A61B5/02 A61B5/14 A61F1/24 A61M1/00 A61M1/03 A61M1/16 A61M1/36 A61M5/00 B01D31/00 E02D1/06 E21C7/04 F04B43/06 G01K13/02 G01N33/16 G01N33/48 G01N33/50 G01N35/00 G01N35/04

CPC: Y10S210/929 Y10S128/03 Y10S128/13 A61B5/00 A61J1/12 A61M1/02 A61M1/1037 A61M1/1692 A61M1/3496 A61M1/3643 A61M1/3679 A61M3/02 A61M2202/0241 A61M2205/331 A61M2205/3561 A61M2205/3592 A61M2205/6072 A61M2230/04 A61M2230/06 A61M2230/30 A61M1/3417 A61M1/3431 A61M1/3465 A61M1/3468 A61M1/3482 A61M1/3609 A61M1/1601 A61M2205/3331 A61M2205/3334 A61M2205/50 A61M1/3607 A61M2205/3317 A61M2205/3324 A61M2205/3344 A61M2205/3368 A61M2205/3379 A61M1/1605 A61M2205/18 A61M2205/3382 A61M2205/3386 A61M1/1006 A61M1/1039 A61M1/1086 A61M1/34 A61M1/3403 A61M1/341 A61M2230/65 A61M1/1005 A61M2205/12 A61M1/3621 A61M1/3639 A61M1/3672 A61M2205/128 A61M1/16 A61M1/1656 A61M1/1668 A61M1/1696 A61M2205/123 A61M2205/125 A61M2205/126 A61M2205/6018 F04B43/06 A61M2205/3306 A61M1/3641

European class: A61B5/00 A61M1/02 A61M1/03B A61M1/03D A61M1/10E A61M1/16 A61M1/16L A61M1/16R2 A61M1/36C A61M1/36C5 A61M1/36H A61M3/02 F04B43/06 K61J1/12 K61J1/14S K61M1/10A12 K61M1/16D2 K61M1/16R2 K61M1/34B1 K61M1/34E1P K61M1/34E4D K61M1/34E4F K61M1/34F3 K61M1/34P K61M1/36A4C K61M1/36C6 K61M1/36P K61M202/02D K61M205/12 K61M205/12B K61M205/12F K61M205/12F4 K61M205/12V K61M205/33D K61M205/33D2 K61M205/33M1 K61M205/35R2 K61M205/35T2 K61M205/60B K61M205/60P2 K61M230/04 K61M230/06 K61M230/30

US class: 128/214E 128/214F 128/214R 128/630 128/DIG.13 128/DIG.3 206/569 210/321.2 210/321.65 210/321.71 210/647 210/87 210/9.4 210/90 210/929 210/94 210/96.2 23/253R 232/530R 422/430 422/45 422/61 422/73 600/301 600/575 600/578 600/579 604/65 604/66

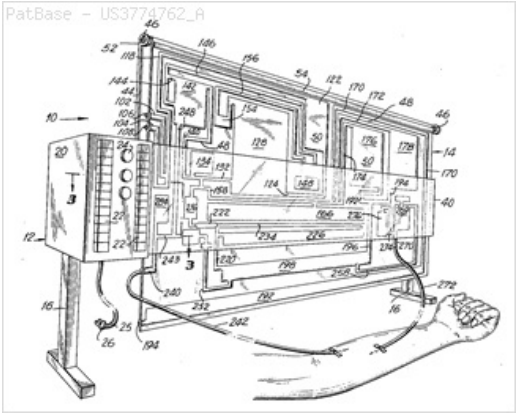
Classification Explorer

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Forward Citations: WO9966833, WO9835710, WO9822163, WO9709075, WO9411093, WO9315780, WO9311845, WO9301845, WO9105576, WO9014850, WO9006781, WO8602858, WO8504112, WO8402473, WO8102979, WO16198579, WO16035098, WO13159935, WO10135078, WO09039357, WO09039357, WO09021075, WO09021075, WO08144577, WO08144575, WO08144575, WO08100989, WO08100989, WO08033788, WO08033788, WO07120816, WO07050211, WO06120417, WO06120417, WO06120415, WO06055745, WO05102441, WO05086879, WO04069311, WO04063876, WO04063876, WO04009158, WO04009158, WO03028860, WO03015847, WO0234314, WO0213691, WO02056992, WO0191831, WO0156631, WO0156631, WO0145769, WO0145769, WO0142758, WO0142758, WO0141831, WO0141831, WO0119318, WO0078374, WO0043063, WO0043046, WO0043046, WO0033898, USRE45717, USRE42834, USRE36386, USRE34800, USRE33858, USD750746, USD747784, USD728747, USD728746, USD681210, USD608004, USD607564, USD579553, USD463864, US9895109, US9889243, US9884144, US9872950, US9867921, US9863837, US9861742, US9855390, US9855377, 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Abstract:
Source: US3774762A A semi-automatic **device** for peroforming complex **fluid** processing procedures adapted to hemodialysis. The structure includes a disposable component formed by layers of transparent, flexible plastic sheets, sealed to each other according to a predetermined pattern defining between each pair flow paths and pockets which respectively form **fluid** passages and reservoirs. The structure also includes a permanent installation which is to receive the disposable component in order to form therewith a complete **apparatus** for automatically processing **fluids**, such as treating or determining the characteristics of a **fluid** such as human blood, according to predetermined sequences which may be controlled by internal and/or external information processing **devices**.


PatBase - US3774762_A

15) Family number: 24051518 (US3822702A)

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Title: DISPENSING METHOD AND **APPARATUS**

Priority:

AU19740066439 19740308
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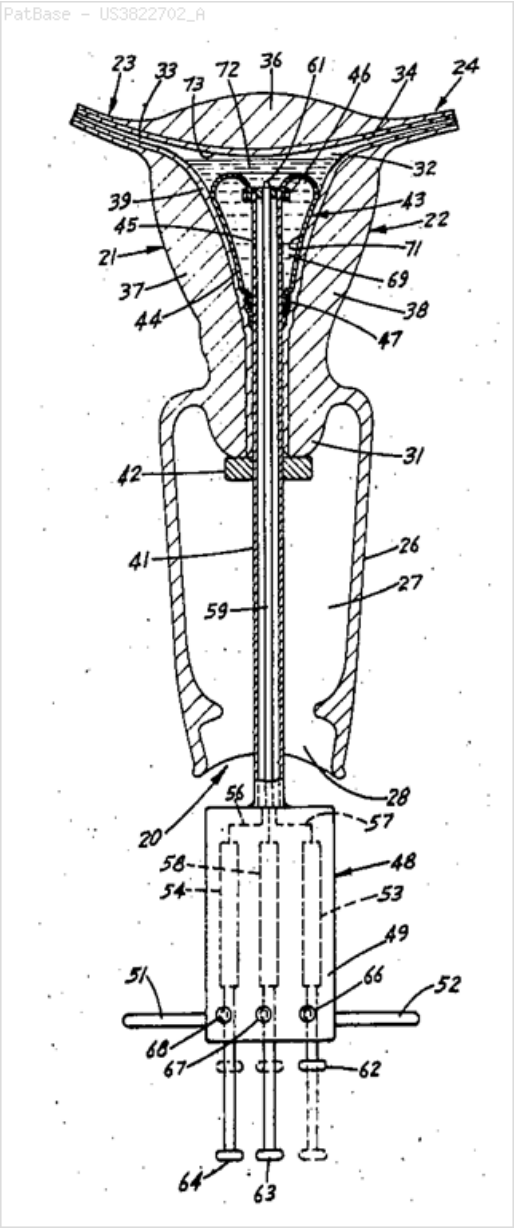
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AT369269 B	19821227	AT19740001913	19740307
AU197466439 A1	19750911	AU19740066439	19740308
AU489524 A1	19750911	AU19740066439D	19740308
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BG23206 A3	19770712	BG19740026001	19740309
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YU54174 A	19820228	YU19740000541	19740304
ZA7401350 A	19750430	ZA19740001350	19740301
ZM4974 A	19741121	ZM19740000049	19740308

Probable Assignee:	PDEW INC A CORP OF NORTH CAROLINA
Assignee(s):(std)**:**	MEDTRONIC INC ; POPULATION RES INC ; POPULATION RESEARCH INC TE MINNEAPOLIS MI ; POPULATION RESEARCH INC US ; POPULATION RESEARCH INC ; POPIYUREESHIYON RISAACHI INC ; POPULATION RESEARCH INC MINNEAPOLIS MINNE
Assignee(s):	POPULATION RESEARCH INCORP ; PIROTTE JOHN K 14240 WYNDFIELD CIRCLE RALEIGH NC 2 ; WOODY W RUFFIN JR PO BOX 381 ROXBORO NC 27573 ; POPULATION RESEARCH INC MINNEAPOLIS MINNESOTA VER ST V AM ; POPULATION RESEARCH INC TE MINNEAPOLIS MINNESOTA VER ST V AM ; PIROTTE JOHN K 14240 WYNDFIELD CIRCLE RALEIGH NC 27609 ; WOODY W RUFFIN JR ; POPULATION RESEARCH INC MINNEAPOLIS MINN V ST A ; POPULATION RES INC US ; DUNCAN CLAYTON I 616 MILOWE ROAD RALEIGH NC 27609 ; EDWARDS LUCILLE L ROUTE 10 BOX 245 CHAPEL HILL NC ; PDEW INC A CORP OF NORTH CAROLINA ; EDWARDS LUCILLE L ROUTE 10 BOX 245 CHAPEL HILL NC 27514 ; BIONEUS INC ; BOLDUC LEE R ; CRX MEDICAL INC ; CRX MEDICAL INC NORTH A CORP OF NC ; DICKHUDT EUGENE A ; PDEW INC ; PIROTTE JOHN K ; EDWARDS LUCILLE L ; DUNCAN CLAYTON I ; FAMILY HEALTH INT
Inventor(s):(std)**:**	YUUJIEN AASAA DEITSUKUHATSUTO ; RII ROBIN BORUDATSUKU ; LEE ROBIN BOLDUC ; LEE RB ; LEE R B ; L R BOLDUC ; EUGENE ARTHUR DICKHUDT ; EUGENE AD ; EUGENE A D ; E A DICKHUDT ; DICKRUDT EUGENE A ; DICKHUDT E A ; DICJHUDT E ; DECKHUDT E ; BOLDUC L R ; DICKHUDT EUGENE ARTHUR ; DICKHUDT EUGENE A ; DICKHUDT E ; BOLDUC LEE ROBIN ; BOLDUC LEE R ; BOLDUC L
Inventor(s):	LEE ROBIN BOLDUC AND EUGENE ARTHUR DICKHUDT ; LR BOLDUC ; EA DICKHUDT ; DICKRUDT EUGENE A US ; BOLDUC LEE ROBIN MINNEAPOLIS ; BOLDUC LEE R US ; BOLDUC L US ; DICKHUDT EUGENE ARTHUR ST PAUL ; DICKHUDT EUGENE A US ; DICKHUDT E US
Agent(s):	EITAN PEARL LATZER AND COHEN ZEDEK
International class (IPC 8-9):	A61B17/42 A61F2/958 A61F6/22 A61K9/00 A61M1/00 A61M31/00 B67B7/48 (Advanced/Invention); A61F6/00 A61K9/00 A61M1/00 A61M25/10 A61M31/00 B67B7/00 (Core/Invention)
International class (IPC 1-7):	A61B17/42 A61D7/00 A61F5/00 A61F5/46 A61K37/38 A61M1/00 A61M25/00 A61M29/00 A61M3/00 A61M31/00 A61M37/00 A61M37/02 B67B7/26
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European class:	A61B17/42 A61F6/22 A61F6/22B A61K9/00M8D A61M25/10E A61M31/00 K61M210/14C
US class:	128/232 128/235 128/831 222/103 222/82 222/83 222/85 604/103.03 604/121 604/135 604/191 604/196 604/201 604/515 604/82 604/920 604/96.01 604/97.02
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Cited documents:	US3817248 A, US3805767 A, US3721229 A, US3680542 A, US3640268 A, US3459175 A, US3452749 A, US3448739 A, US3422813 A, US3401689 A, US3394705 A, US3380448 A, US3211151 A, US3077078 A, US3042030 A, US2854982 A, US2772026 A, US2733836 A, US2699167 A, US2696212 A, US2541520 A, US1979105 A, JP46005295 A2, JP45035557 A2, JP45005239 A2, JP43031107 Y1, JP43011090 Y1, JP35009793 Y1, JP31009697 Y1,
Forward Citations:	WO9943366, WO8911310, WO11064408, WO07137056, WO07137056, WO07087536, WO05082299, WO05006991, WO05006991, WO02051491, WO0018464, US9888927, US9839444, US9801660, US9743974, US9655557, US9592375, US9579095, US9554826, US9440048, US9402762, US9308023, US9283108, US9238127, US9220880, US9155872, US9113852, US9055949, US9034053, US8986244, US8956285, US8808232, US8726906, US8695606, US8672881, US8540745, US8539672, US8506543, US8490852, US8454645, US8439497, US8398324, US8336552, US8328839, US8324193, US8316854, US8316853, US8282665, US8267609, US8262643, US8262605, US8262570, US8217219, US8187296, US8172869, US8167874, US8162899, US8157831, US8079683, US8052669, US8048101, US8048087, US8048086, US7985179, US7972322, US7967835, US7963975, US7934503, US7914541, US7799010, US7776063, US7763006, US7708391, US7695487, US7682346, US7597497, US7549424, US7300448, US7297153, US7232208, US7214236, US7179272, US7001405, US6953469, US6953467, US6916307, US6902541, US6866676, US6758853, US6758831, US6755845, US6699272, US6695856, US6679900, US6676680, US6632234, US6592602, US6562056, US6540764, US6514272, US6475182, US6443941, US6432121, US6432081, US6408203, US6368337, US6364892, US6355015, US6290672, US6287275, US6264631, US6264604, US6231591, US6197351, US6193763, US6187346, US6168608, US6165492, US6059766, US6048330, US6015421, US5993378, US5947977, US5891457, US5858003, US5836961, US5836951, US5817123, US5807306, US5752971, US5702416, US5628730, US5607443, US5578048, US5571115, US5540711, US5527336, US5498238, US5496345, US5496272, US5492532, US5458568, US5439476, US5431662, US5411485, US5348392, US5312430, US5300046, US5286254, US5282785, US5196017, US5108366, US5030227, US5007919, US4979942, US4865587, US4795431, US4637818, US4601698, US4469100, US4416660, US4349033, US4207891, US4185618, US4182328, US4160446, US4136695, US4119098, US4086266, US4054138, US4030499, US3982537, US2017215788, US2016030084, US2015342642, US2014180247, US2014135735, US2014024934, US2013158428, US2013019374, US2011218565, US2011183296, US2010266981, US2010214381, US2010170931, US2010086492, US2009299148, US2009012496, US2009012495, US2009012426, US2008275392, US2008221515, US2008215031, US2008132936, US2008058853, US2008045994, US2007288052, US2007282280, US2007020028, US2006173483, US2006169278, US2006129125, US2006079922, US2006079918, US2006036277, US2006015070, US2005255039, US2005240211, US2005187561, US2005156997, US2005119662, US2005004592, US2005004540, US2004236363, US2004230218, US2004186353, US2004167557, US2004138702, US2004024419, US2004015182, US2004002647, US2003236546, US2003229373, US2003187472, US2003073908, US2002032407, TWI552779, JP7086017, JP62054313, JP62034816, JP60080204, JP60080203, JP56500101, JP56118412, JP53021893, JP2009537250, GB2150032, FR2873014, FR2419064, FR2361125, FR2361125, EP2327382, EP2327381, EP0767688, EP0417189, EP0153407, EP0088714, EP0054357, EP0010650, EP0002060, DK152407, DE2735444, CN105708514, CN103750884, AU631686,

Abstract:
Source: US3822702A A **fluid** dispensing instrument and method for introducing a **fluid**, as drug materials, into the canals of the Fallopian tubes of a primate female. The dispensing instrument has a tubular probe carrying an expandable balloon assembly. A stop collar on the probe positions the balloon assembly in the uterine cavity. The balloon assembly has a sleeve member which is initially expanded to close the lower portion of the uterine cavity. The drug material is introduced through the probe into the upper portion of the uterine cavity above the expanded balloon assembly. The balloon assembly is then further expanded to force the drug material from the upper portion of the uterine cavity into the canals of the Fallopian tubes. The expanding balloon assembly divides the material and forces the drug material into both of the canals.

PatBase - US3822702_A



16) Family number: 1534862 (US3889677A)

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Title: SELF-CONTAINED **FLUID** EVACUATOR

Priority:

CA19740212332 19741025	CA19760250179 19760413	GB19740049299 19741114
NL19740015068 19741119	US19730417124 19731119	CA19770287660 19770928
US19760729094 19761004	US19750568205 19750415	US19750587142 19750616

Family:

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FR2251342 B1	19831104	FR19740037974	19741118
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Probable Assignee: INT PAPER CO

Assignee(s):(std)**:** BARD INC ; BARD INC C R ; INT PAPER CO ; INT PAPER CO1031JP48 121758 ; JP48 121759 ; STOCKHOLMS PATENTBYRA412390 AB

Assignee(s): INTERNATIONAL PAPER CY US ; INTERNATIONAL PAPER CY ; INTERNATIONAL PAPER COMPANY TE NEW YORK ; INTPAPER CO ; NEHRING JOHN R ; 731031JP48 121759 ; AB STOCKHOLMS PATENTBYRA412390 ; BARD C R INC ; BARD CR INC ; CRBARD INC ; INTERNATIONAL PAPER CO ; INTERNATIONAL PAPER COMPANY ; C R BARD INC ; INTERNATIONAL PAPER CO1031JP48 121758 ; CR BARD INC ; INT PAPER CY US ; INT PAPER CY ; CRBARD INC A CORP OF NJ ; INT PAPER CO TE NEW YORK

Inventor(s):(std)**:** NEHRING J R ; NEHRING JOHN R ; NEHRING J ; JIYON AARU NEERINGU

Inventor(s): R NEHRING JOHN ; J R NEHRING ; JOHN R NEHRING ; JR NEHRING

Agent(s): GOWLING LAFLEUR HENDERSON LLP

International class (IPC 8-9): A61F6/02 A61H35/00 A61M1/00 A61M27/00 A61M3/02 A61M39/02 (Advanced/Invention); A61F6/00 A61M1/00 A61M3/00 A61M39/02 (Core/Invention)

International class (IPC 1-7): A61G9/00 A61M1/00 A61M1/03 A61M1/08 A61M27/00 B65D F04B43/00 F04B43/06 F04B43/12 F04B9/12 F04F3/00

CPC: A61M2209/082 A61M2209/088 A61M39/02 A61M1/0011 A61M3/0262 A61M1/0058

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US class: 128/278 604/142 604/911

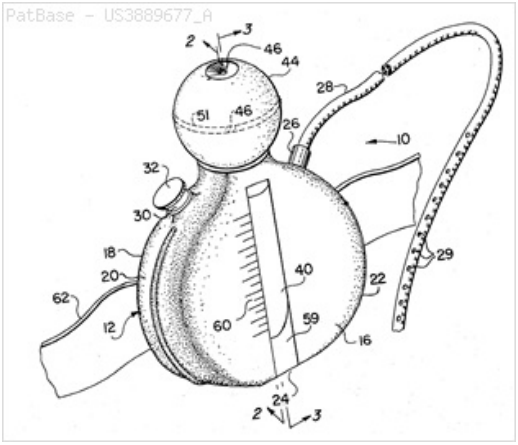
Classification Explorer

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Forward Citations: WO9727829, WO9000908, WO15091072, WO09092380, US9889241, US9844475, US9844474, US9844473, US9808561, US9801984, US9616208, US9597489, US9585990, US9579431, US9545463, US9526817, US9511177, US9492326, US9474654, US9452248, US9452244, US9446178, US9415145, US9414968, US9393353, US9387126, US9375353, US9302034, US9295764, US9289542, US9272080, US9220822, US9211365, US9205235, US9205001, US9199012, US9198801, US9192700, US9155821, US9067003, US9061095, US9058634, US9050399, US9044579, US9044569, US9028458, US9017302, US8945074, US8926592, US8920366, US8882746, US8845619, US8834451, US8829263, US8827983, US8808274, US8808259, US8795243, US8784392, US8777911, US8771259, US8764732, US8758313, US8715256, US8679081, US8663198, US8636721, US8628505, US8569566, US8568386, US8551061, US8551060, US8545464, US8535296, US8529548, US8460255, US8449509, US8398614, US8366692, US8348910, US8337475, US8303552, US8298200, US8282611, US8257328, US8257327, US8257326, US8251979, US8246607, US8246591, US8235971, US8235955, US8216198, US8207392, US8177772, US8177763, US8167869, US8162909, US8162907, US8152785, US8128615, US8118794, US8105295,

US8080702, US8048046, US8021347, US8007481, US7976521, US7964766, US7883494, US7838717, US7829756, US7794450, US7753894, US7699830, US7641639, US7524315, US7351235, US7255673, US7252631, US7004899, US6997884, US6916283, US6896650, US6312411, US5830198, US5779678, US5645540, US5491345, US5024664, US4990137, US4892518, US4681571, US4655754, US4578060, US4529402, US4460361, US4460354, US4429693, US4404924, US4392860, US4136696, US4073294, US2014276499, US2013338614, US2011213320, US2011213319, US2011172615, US2011118683, US2011106027, US2011087179, US2011087178, US2011087176, US2011054423, US2011046584, US2011028918, US2011009849, US2011009838, US2011004171, US2010324516, US2010318071, US2010318043, US2010305524, US2010298793, US2010298792, US2010286638, US2010274207, US2010274167, US2010268198, US2010262094, US2010252756, US2010249733, US2010211031, US2010204752, US2010204663, US2010191198, US2010191197, US2010191196, US2010185163, US2010160880, US2010100063, US2010063484, US2010063463, US2010049150, US2010036334, US2010016816, US2010010477, US2009326487, US2009312723, US2009306609, US2009306580, US2009299306, US2009299251, US2009292264, US2009281526, US2009254054, US2009240218, US2009234309, US2009234307, US2009221977, US2009204084, US2009143753, US2009137973, US2009069759, US2009054855, US2009012483, US2009005744, US2008091174, US2007293830, US2007167926, US2007129707, US2007129694, US2007104601, US2007073270, US2007066945, US2006241565, US2006155260, US2006079853, US2005065470, US2005027241, US2004133067, US2003028159, US2003028075, US2003028074, US2003027326, US2003023135, US2003023134, JP62028804, JP55096159, FR2462168, FR2307989, EP0345831, EP0186783, DE3000322, DE2616346, DE202016100153, CN102313655,

Abstract:
Source: US3889677A A self-contained wound evacuator is disclosed which provides a substantially constant negative gauge pressure and which includes a substantially rigid container and an air inflatable member within the container, the container and inflatable member having a combined configuration which avoids deformation of the inflatable member by the container in at least one direction of expansion of the inflatable member. Means are provided for inflating the inflatable member and controlling the deflation thereof.



17) Family number: 1620010 (US4114619A)

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Title: Automatic **injecting** **apparatus**

Priority:

AU19750086930 19751125	DE19762609287 19760304	DE19803019589 19800520
DE19762650451 19761101	GB19740049989 19741119	GB19740049990 19741119
SE19770002375 19770303	US19770793951 19770505	US19780933136 19780814
GB19740056007 19750530	US19750634741 19751121	IN1978CA01238 19781116
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US19820405560 19820806	US19810241378 19810226	

Family:

Publication number	Publication date	Application number	Application date
AU197586930 A1	19770707	AU19750086930	19751125
AU510272 B2	19800619	AU19750086930	19751125
BE835626 A	19760316	BE19750835626	19751117
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FR2291772 A3	19760618	FR19750035891	19751120
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US4284077 A	19810818	US19790093615	19791109
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US4573970 A	19860304	US19820405560	19820806
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Probable Assignee: WAGNER W DR

Assignee(s):(std)**:** WAGNER WOLFGANG DR MED ; WAGNER W ; WAGNER W DR ; WAGNER WOLFGANG

Assignee(s): WAGNER WOLFGANG DR ; WOLFGANG WAGNER ; WAGNER DR MED WOLFGANG ; WAGNER WOLGANG ; WAGNER WOLFGANG DRMED ; BORUFUGANGU BAAGUNAA ; BORUFUGANGU UAAGUNAA ; DR MED WAGNER WOLGANG ; DR MED WOLFGANG WAGNER ; DR MED WOLGANG WAGNER ; W WAGNER

Inventor(s):(std)**:** WAGNER W ; WAGNER WOLFGANG DR ; WAGNER WOLFGANG DR MED ; WOLFGANG WAGNER ; WAGNER WOLFGANG

Inventor(s): WAGNER DR MED WOLFGANG ; WAGNER WOLFGANG DRMED ; WOLGANG WAGNER ; BORUFUGANGU UAAGUNAA ; DR MED WAGNER WOLGANG ; DR MED WOLFGANG WAGNER ; DR WOLFGANG WAGNER ; UORUFUGANGU UAAGUNAA ; W WAGNER

Agent(s): CL

International class (IPC 8-9): A61J1/00 A61J1/05 A61J3/00 A61M1/00 A61M31/00 A61M5/00 A61M5/148 A61M5/178 A61M5/20 A61M5/315 A61M5/32 A61M5/42 (Advanced/Invention);
A61M5/00 A61M5/20 A61M5/42 (Advanced/Non-invention);
A61J1/00 A61J1/05 A61J3/00 A61M1/00 A61M31/00 A61M5/00 A61M5/145 A61M5/178 A61M5/20 A61M5/315 A61M5/32 A61M5/42 (Core/Invention);
A61M5/00 A61M5/20 A61M5/42 (Core/Non-invention)

International class (IPC 1-7): A61B17/34 A61J1/00 A61J3/00 A61J7/00 A61M1/00 A61M37/00 A61M5/00 A61M5/14 A61M5/18

CPC: A61M5/20 A61M5/002 A61M5/2033 A61M5/14236 A61M5/14526 A61M5/1454 A61M5/14593 A61M5/16827 A61M5/3287 A61M5/204 A61M5/31525 A61M5/31548 A61M5/31555 A61M5/3156 A61M5/3158 A61M5/31591 A61M2005/31506 A61M5/24 A61M5/31553 A61J1/05 A61M5/1486 A61M5/425

European class: A61J1/00T A61J1/05 A61M5/142G10 A61M5/145B2 A61M5/145B4 A61M5/145D2 A61M5/148B2 A61M5/168A11 A61M5/20 A61M5/20D A61M5/315D A61M5/315E2B4 A61M5/315F2A1 A61M5/315F3A A61M5/32E A61M5/42C K61M5/00P K61M5/20C K61M5/315B1C2 K61M5/315E2B K61M5/315E2B2 K61M5/42C

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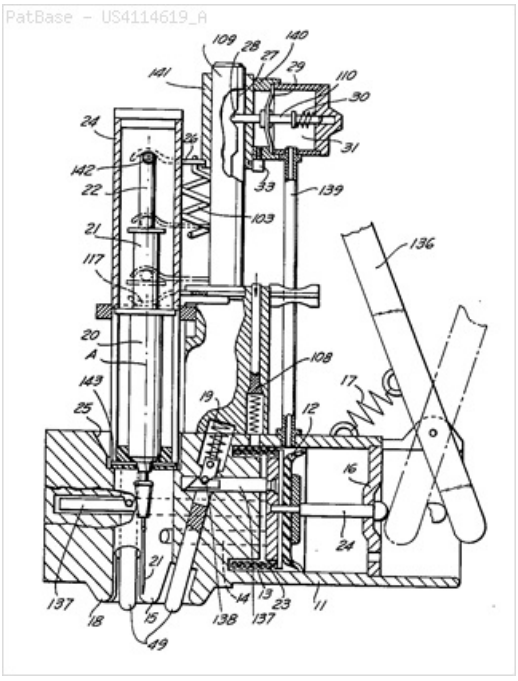
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Cited documents: US4393870 A, US4299219 A, US4284077 A, US4139008 A, US4114619 A, US3949746 A, US3865274 A, US3850348 A, US3841160 A, US3727614 A, US3521633 A, US3433224 A, US3353537 A, US3122138 A, US2960087 A, US2821195 A, US2743723 A, US2632445 A, US1934046 A, GB1335797 A, GB1198214 A, GB1005869 A, DE7411480 U, DE7026636 U, DE596981 A, DE352141 A, DE2442689 A1, DE1795815 U, DE1791094 A1, DE1700899 U, DE1566635 A1, DE1491840 A1, DE1274282 B, DE1213958 B, DE1099132

B, DE1081193 B, DE1080267 B, DE1058222 B,

Forward Citations: WO9921511, WO9515783, WO9423777, WO9215348, WO8400895, WO8202835, WO17208190, WO17088066, WO15153900, WO12008842, WO10077596, WO10016635, WO08131440, WO07015247, WO07015247, WO03097118, WO03097118, WO0187389, WO0141864, US9901419, US9814838, US9586003, US9550030, US9517307, US9474869, US9474865, US9452268, US9327086, US9089655, US9044544, US9022022, US8986243, US8939943, US8934207, US8911109, US8876764, US8795229, US8764702, US8758300, US8627816, US8597230, US8571648, US8556861, US8556855, US8556854, US8480621, US8469545, US8376998, US8353874, US8323186, US8257299, US8197087, US8157761, US8083709, US7985216, US7842029, US7833170, US7771374, US7762965, US7762964, US7740651, US7740600, US7736328, US7297152, US7124987, US7124987, US7060054, US7018356, US6994691, US6971999, US6932789, US6824526, US6817988, US6817986, US6755220, US6699176, US6689092, US6641527, US6613011, US6613010, US6565533, US6500239, US6478656, US6349232, US6048337, US5931814, US5925021, US5820602, US5728074, US5688243, US5593390, US5545144, US5300079, US5277334, US5269754, US5071412, US4941883, US4723940, US4664651, US4600403, US4541829, US4421508, US4403609, US4393870, US4384579, US4284077, US2015335397, US2013215546, US2011230833, US2011224609, US2010229366, US2010137831, US2010130920, US2010044538, US2009259143, US2009198181, US2009171162, US2009093864, US2009069795, US2009012459, US2009012458, US2009012455, US2009012451, US2009012434, US2007179482, US2006189964, US2006129065, US2005251118, US2005251117, US2005192530, US2005103808, US2004260324, US2004147901, US2003229312, US2003171716, US2003100861, US2003093032, US2002188419, US2002065479, KR100627249, JP63020764, JP62101226, GB2438518, GB2438518, FR2672803, FR2625102, EP2907535, EP2650033, EP1516679, EP1354609, EP1329235, EP1161961, EP0844857, EP0841035, EP0838232, EP0709104, EP0477562, EP0282143, EP0148692, EP0107874, EP0103664, DE4230774, DE3713846, DE2852073, DE19519281, DE19519278, DE10101932, CZ301175, CN106241063, CN105670906, CN104165583, CN101869734, BG65012, AU782964, AU782610, AU680075,

Abstract:
Source: US4114619A An automatic **injecting** **apparatus** has a housing formed with a recess having an annular rim and provided with a hypodermic-holding case in which a hypodermic syringe can be held, with the needle tip of the syringe projecting into the recess and lying just inward of the rim thereof. The housing is formed with a suction chamber having a piston and **connected** via a passage to the recess. A spring urges this piston away from the passage so as normally to aspirate air from the recess and, when the rim is snugly engaged against the skin of a person to be **injected**, to pull the skin of a person to be **injected** into piercing contact with the needle tip. Similarly a spring-loaded mechanism is provided for pushing the plunger down. Neither the spring-operated mechanism for the syringe plunger nor the piston can be displaced, however, until detecting means provided around the rim ascertains that the rim is firmly seated against the skin of the person to be **injected**. Only then can the **device** automatically function to perform a hypodermic **injection**.



18) Family number: 1523311 (US4137913A)

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Title: **FLUID** FLOW CONTROL SYSTEM

Priority: CA19750229038 19750611 CA19780311510 19780918 GB19750024941 19750611 CA19780311511 19780918 CA19780311512 19780918 CA19780311513 19780918 US19750554092 19750228

Family:

Publication number	Publication date	Application number	Application date
CA1058996 A1	19790724	CA19750229038	19750611
CA1067778 A2	19791211	CA19780311510	19780918
CA1067779 A2	19791211	CA19780311511	19780918
CA1067780 A2	19791211	CA19780311512	19780918
CA1067781 A2	19791211	CA19780311513	19780918
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GB1513902 A	19780614	GB19750024941	19750611
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GB1513904 A	19780614	GB19770051295	19750611
GB1513905 A	19780614	GB19770051296	19750611
GB1513906 A	19780614	GB19770051297	19750611
JP51101390 A2	19760907	JP19750085930	19750715
US4137913 A	19790206	US19750554092	19750228

Probable Assignee: IVAC MEDICAL SYSTEMS INC

Assignee(s):(std)**:** IVAC CORP

Assignee(s): IVAC MEDICAL SYSTEMS INC ; NEW IVAC INC ; AIBATSUKU CORP ; GEORGI HEINZ W

Inventor(s):(std)**:** GEORGI HEINZ W ; GEORGI HEINZ WERNER ; HEINZU WAANAA JOOJI

Inventor(s): WERNER GEORGI HEINZ

International class (IPC 8-9): A61M5/00 A61M5/172 G05D7/06 (Advanced/Invention)

International class (IPC 1-7): A61M1/00 A61M5/00 A61M5/14 A61M5/20 G05D7/06

CPC: Y10S128/12 Y10S128/13 A61M5/14216 A61M5/16809 A61M5/172 G05D7/0676

European class: A61M5/142G2 A61M5/172 G05D7/06F4D K61M5/168A3

US class: 128/214F 128/DIG.12 128/DIG.13 222/63 604/152 604/67

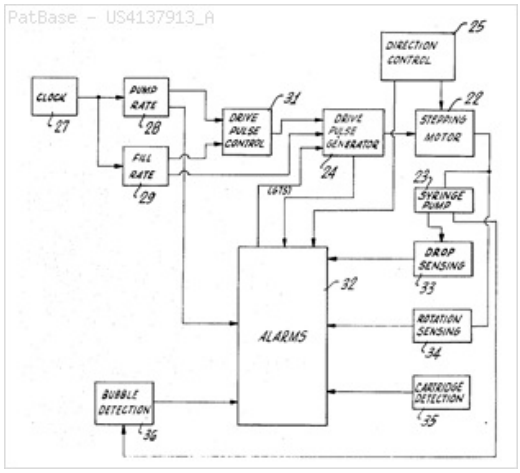
Classification Explorer

Cited documents: US3985133 A, US3890968 A, US3888239 A, US3887110 A, US3884228 A, US3812482 A, US3736930 A, US3731679 A, US3724720 A, US3559644 A,

Forward Citations: WO9015632, WO12126745, WO12126744, WO07133259, US9740829, US9682191, US9555186, US9211377, US9180243, US9056166, US9044537, US9033920, US8986253, US8965707, US8954336, US8952794, US8926561, US8894640, US8858526, US8758323, US8504179, US8435206, US8403888, US8317770, US8298184, US8287495, US8250483, US8149131, US8133197, US7758547, US7654976, US7635349, US7556611, US7517332, US7347836, US7311879, US7299944, US7118347, US7001354, US6986441, US6805841, US6757630, US6742992, US6312227, US6146109, US6110153, US6017326, US5935099, US5856929, US5853386, US5833343, US5810771, US5803712, US5742519, US5717603, US5700245, US5695464, US5669877, US5608650, US5588556, US5584667, US5558255, US5553741, US5415528, US5374251, US5346470, US5320503, US5254096, US5249579, US5201711, US5188604, US5134962, US5037407, US5026348, US4950235, US4908017, US4898579, US4865581, US4692147, US4617020, US4566868, US4530696, US4529401, US4487601, US4474309, US4444546, US4411651, US4410322, US4396385, US4395259, US4391600, US4389886, US4382753, US4345483, US4299218, US4294248, US4258711, US4221219, US4193397, US2016199568, US2014207057, US2013190749, US2012265065, US2011152824, US2008126969, US2008034323, US2008033749, US2008033361, US2008015506, US2007270782, US2007243990, US2007077547, US2005246416, US2005234530, US2005234387, US2005234382, US2005161469, US2005036919, US2005013698, US2004104242, US2004013532, US2003225357, US2003163789, US2003163088, US2003097232, US2002183693, JP60501292, FR2461126, EP2902051, EP1461414, DE3239190, AU577375,

Abstract:
Source: US4137913A A syringe pump operated by a stepping motor to repetitively fill and empty a syringe cartridge over a plurality of operational cycles of successive fill stroke and pump stroke periods. The motor is driven by drive pulses from a digital pulse generation and control system, the pulse frequency establishing a predetermined fixed rate of fill during the fill stroke and being preselected, in accordance with desired output flow rate, to establish the rate at which the syringe is emptied during the pump stroke. The drive pulse rate during a fill stroke exceeds the maximum pulse rate during a pump stroke and, in order to maintain a proportional relationship between the preselected pumping rate and the actual pumping rate over each complete cycle of successive fill and pump strokes, the drive pulse frequency during each pump stroke is automatically increased to compensate for the time lost during each fill stroke. This is accomplished by accelerating counting up of the electrical network defining each individual pump stroke drive pulse period for a time interval equal to a single fill stroke drive pulse period. A start-up subsystem insures proper cartridge installation prior to initiation of a pumping cycle. Appropriate alarms respond to improper operating conditions including leakage from the source during the pump stroke, empty bottle or insufficient flow during fill, air in the I.V. **line**, a stalled motor, lack of flow due to system component failure, or occurrence of a runaway high pumping rate.

PatBase - US4137913_A



19) Family number: 30153721 (US4029757A)

© PatBase

Title: MANUFACTURE OF PHARMACEUTICAL UNIT DOSAGE FORMS

Priority:

BE19760849377 19761214
CA19760267803 19761214
CA19760267860 19761214
IL19760051096 19761213
NZ19760182871 19761213
IL19790058049 19790815
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CA19790334136 19790820
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US19750641068 19751215
US19750640610 19751215
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US19790081710 19791004
US19780886967 19780315
US19770827284 19770824
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US19780935274 19780821

Family:

Publication number	Publication date	Application number	Application date
AT365449 B	19820111	AT19760009239	19761214
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AU197949925 A1	19800228	AU19790049925	19790814
AU514195 B2	19810129	AU19760020519	19751214
AU521053 B2	19820311	AU19790049925	19790814
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BE878306 A4	19800220	BE19790196780	19790820
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Probable Assignee: HOFFMANN LA ROCHE

Assignee(s):(std)**:** F HOFFMANN LA ROCHE AND CIE S A ; F HOFFMANN LA ROCHE AND CO ; F HOFFMANN LA ROCHE AND CIE SA ; A R MLODOZENIEC ; A STURZENEGGER ; HOFFMANN LA ROCH CO F AG ; HOFFMANN LA ROCHE ; HAFFMANN LA ROCHE F AND CO A G ; HOFFMANN LA ROCHE AND CO F AG ; HOFFMANN LA ROCHE ET CIE SA ; F HOFFMANN LA ROCHE AND CO TE B AG ; HOFFMANN LA ROCHE F AND CO AG ; HOFFMANN LA ROCHE LTD ; SPARMEDICA AG ; STURZENEGGER A ; SPARAMEDICA AG

Assignee(s): HOFFMANN LA ROCHE INC ; HOFFMANN LA ROCHE F AND CO A G ; HOFFMANN LA ROCHE LIMITED ; MLODOZENIEC ARTHUR R ; STURZENEGGER AUGUST ; LIPINSKY EDWARD S ; WILLIAMS JOSEPH J ; MLODZENIEC ARTHUR R ; REIF ROBERT B ; WHITE LAWRENCE S ; HOFFMANN LA ROCHE AND CO AKTIENGESELLSCHAFT F ; F HOFFMANN LA ROCHE AND CO AKTIENGESELLSCHAFT ; HOFFMANN LA ROCHE F ; HOFFMANN LA ROCHE AND CO F ; F HOFFMANN LA ROCHE AND CO AKTIENGESELLSCHAFT TE B ; F HOFFMANN LA ROCHE AND CO AKTIENGESELL SCHAFT TE ; F HOFFMANN LA ROCHE AND CO AKTIENGESELLSCHAFT TE BAZEL ZWITSERLAND ; F HOFFMANN LA ROCHE AND CO AKTIENGESELL SCHAFT TE BAZEL ZWITSERLAND ; GOLDBERG ARTHUR H ; FRANKLIN MICHAEL L ; GARDNER WILLIAM E ; HAFFMANN LA ROCHE F AND CO AG ; F HOFFMANN LA ROCHE AND CO BASEL CH AG ; FHOFFMANN LA ROCHE AND CO AG ; F HOFFMANN LA ROCHE AND CO TE BAZEL ZWITSERLAND AG ; HOFFMANN LA ROCHE AND CO AG F ; F HOFFMANN LA ROCHE AND CO AG BASEL CH ; HOFFMAN LA ROCHE INC ; ADAMS JIM M ; ARMLODOZENIEC ; ASTURZENEGGER ; DABAL DENNIS J ; F HOFFMANN LA ROCHE AND CO AG 4002 BASEL CH ; F HOFFMANN LA ROCH CO AG ; F HOFFMANN LA ROCHE AND CO A G ; F HOFFMANN LA ROCHE AND CO AG ; EFU HOFUMAN RA ROSHU UNTO CO AG ; F HOFFMANN LA ROCHE AND CIE ; F HOFFMANN LA ROCHE AND CO 4002 BASEL CH AG

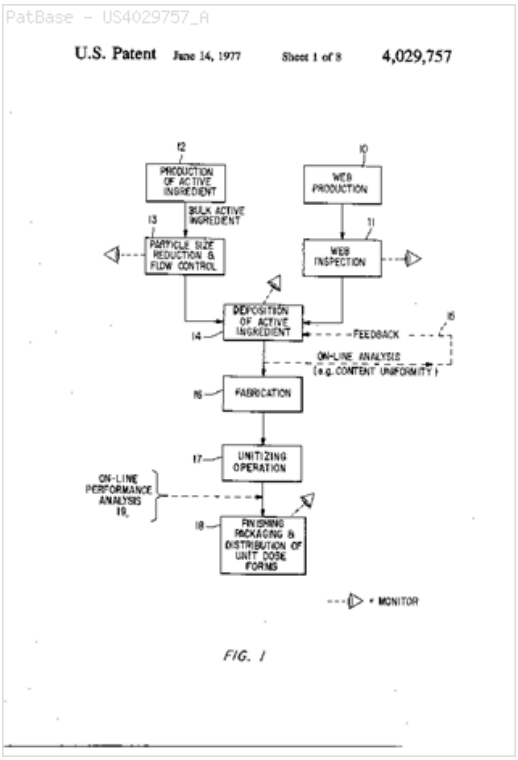
Inventor(s):(std)**:** 10J J WILLIAMS ; 1J M ADAMS ; 2D J DABAL ; 3W E GARDNER ; 4A H GOLDBERG ; 5E S LIPINSKY ; 6A R MLODOZENIEC ; 7R B REIF ; 8A A STURZENEGGER ; 9L S WHITE ; A A STURZENEGGER ; A H GOLDBERG ; A R MLODOZENIEC ; AASAA EICHI GOORUDOBAAGU ; AASAA ROMAN MURODOZENIIKU ; ADAMS J ; ADAMS J M ; ADAMS JIM M ; ADAMS JIM MILLS ; ADAMS JM ; AHGOLDBERG ; ARTHUR H GOLDBERG ; ARTHUR ROMAN MCLODOZENIEC ; ARTHUR ROMAN MLODOZENIEC ; AUGUST STURZENEGGER ; AUGUST STURZENEGGER ARTHUR ROMAN MLODOZENIEC EDWAR ; D J DABAL ; DABAL D ; DABAL D J ; DABAL DENNIS J ; DABAL DENNIS JOSEPH ; DABAL DJ ; DENISU JIYOSEFU DABARU ; DENISU JOSEFU DABARU ; DENNIS JOSEPH DABAL ; DJDABAL ; E S LIPINSKY ; EDOWAADO SOROMON RIPINSUKII ; EDWARD SOLOMON LIPINSKY ; GARDNER W ; GARDNER W E ; GARDNER WE ; GARDNER WILLIAM E ; GARDNER WILLIAM ELMORE ; ESLIPINSKI ; FRANKLIN M ; FRANKLIN M L ; FRANKLIN MICHAEL LEON ; GOLDBERG A ; GOLDBERG A H ; GOLDBERG AH ; GOLDBERG ARTHUR H ; HABAL DENNIS J ; J M ADAMS ; JIM MILLS ADAMS ; JIMU MIRUZU ADAMUSU ; JIYOSEFU JIEEMUSU UIRIAMUSU ; JJWILLIAMS ; JOSEFU JEEMUSU UIRIAMUSU ; LIPINSKY ES ; LSWHITE ; M L FRANKLIN ; MAIKERU REON FURANKURIN ; MCLODOZENIEC ARTHUR ROMAN ; MICHAEL LEON FRANKLIN ; JOSEPH JAMES WILLIAM ; JOSEPH JAMES WILLIAMS ; KLODOZENIEC A ; L S WHITE ; LAWRENCE SAMUEL WHITE ; LIPINSKI E S ; LIPINSKY E ; LIPINSKY E S ; LIPINSKY EDWARD S ; LIPINSKY EDWARD SOLOMON ; FRANKLIN MICHAEL L ; MLODOZENIEC A ; MLODOZENIEC A R ; MLODOZENIEC AR ; MLODOZENIEC ARTHUR R ; MLODOZENIEC ARTHUR ROMAN ; MLODZENIEC ARTHUR R ; OOGASUTO SUTAATSUENEGAA ; R B REIF ; RBREIF ; REIF R ; REIF R B ; REIF RB ; REIF ROBERT ; REIF ROBERT B ; REIF ROBERT BRUCE ; ROBERT BRUCE REIF ; ROMAN MCLODOZENIEC ARTHUR ; ROORENS ; STURZENEGGER AUGUST ; UIRIAMU ERUMOA GAADONAA ; W E GARDNER ; WEGARDNER ; WHITE L ; WHITE L S ; WHITE LAWRENCE S ; WHITE LAWRENCE SAMUEL ; WHITE LS ; WILLIAM ELMORE GARDNER ; WILLIAM JJ ; WILLIAM JOSEPH JAMES ; WILLIAMS J ; WILLIAMS J J ; WILLIAMS JOSEPH J ; WILLIAMS JOSEPH JAMES ; STURZENEGGER A ; STURZENEGGER A A

Inventor(s): STURZENEGGER A MLODOZENIEC AR LIPINSKY ES GOLDBERG AH GARDNER WE BADAL D J WILLIAMS J J ADAMS J M WHITE L S AND REIF R B ; WHITE LAWRENCE SAMUEL RAMSEY N J ; WHITE LAWRENCE SAMUEL RAMSEY N J US ; WHITE LAWRENCE SAMUEL RAMSEY NJ ; STURZENEGGER AUGUST ESSEX FALLS N J ; STURZENEGGER AUGUST ESSEX FALLS N J US ; STURZENEGGER AUGUST ESSEX FALLS NJ ; SAMUEL WHITE LAWRENCE ; SOLOMON LIPINSKY EDWARD ; ROMAN MLODOZENIEC ARTHUR ; REIF

	ROBERT BRUCE GROVE CITY OHIO US ; RO ; MLODOZENIEC ARTHUR ROMAN MONTCLAIR N J ; MLODOZENIEC ARTHUR ROMAN MONTCLAIR N J US ; MLODOZENIEC ARTHUR ROMAN MONTCLAIR NJ ; LIPINSKY EDWARD SOLOMON COLUMBUS OHIO US ; LEON FRANKLIN MICHAEL ; MILLS ADAMS JIM ; DABAL DENNIS JOSEPH WHIPPANY N J ; ADAMS JIM MILLS WEST CALDWELL N J ; 9 L S WHITE ; 8 A A STURZENEGGER ; 7 R B REIF ; 6 A R MLODOZENIEC ; 5 E S LIPINSKY ; 4 A H GOLDBERG ; 3 W E GARDNER ; 2 D J DABAL ; 10 J J WILLIAMS ; 1 J M ADAMS ; J J WILLIAMS ; E S LIPINSKI ; JOSEPH DABAL DENNIS ; JAMES WILLIAMS JOSEPH ; GOLDBERG ARTHUR H MONTCLAIR N J US ; H GOLDBERG ARTHUR ; FRANKLIN MICHAEL LEON PARSIPPANY N J ; FRANKLIN MICHAEL LEON PARSIPPANY N J US ; FRANKLIN MICHAEL LEON PARSIPPANY NJ ; GARDNER WILLIAM ELMORE WYCKOFF N J ; GARDNER WILLIAM ELMORE WYCKOFF N J US ; GARDNER WILLIAM ELMORE WYCKOFF NJ ; ELMORE GARDNER WILLIAM ; DABAL DENNIS JOSEPH WHIPPANY N J US ; DABAL DENNIS JOSEPH WHIPPANY NJ ; AUGUST STURZENEGGER ARTHUR ROMAN MLODOZENIEC EDWARD SOLOMON LIPINSKY ARTHUR H GOLDBERG WILLIAM ELMORE GARDNER DENNIS JOSEPH DABAL JOSEPH JAMES WILLIAMS JIM MILLS ADAMS LAWRENCE SAMUEL WHITE ROBERT BRUCE REIF ; BRUCE REIF ROBERT ; ARTHUR ROMAN MIODOZENIEC ; ADAMS JIM MILLS WEST CALDWELL N J US ; ADAMS JIM MILLS WEST CALDWELL NJ
Agent(s):	SF; FETHERSTONHAUGH AND CO; REINHOLD COHN AND PARTNERS
International class (IPC 8-9):	A61J3/00 A61J3/06 A61J3/07 A61K47/00 A61K47/30 A61K9/00 A61K9/14 A61K9/20 A61K9/22 A61K9/24 A61K9/28 A61K9/44 A61K9/70 (Advanced/Invention); A61K9/70 (Advanced/Non-invention); A61J3/00 A61J3/06 A61J3/07 A61K47/00 A61K47/30 A61K9/00 A61K9/14 A61K9/20 A61K9/22 A61K9/24 A61K9/28 A61K9/44 A61K9/70 (Core/Invention); A61K9/70 (Core/Non-invention); A61K (Subclass/Invention)
International class (IPC 1-7):	A61F A61J3/00 A61J3/06 A61J3/07 A61J3/10 A61K31/44 A61K47/00 A61K9/00 A61K9/10 A61K9/14 A61K9/18 A61K9/20 A61K9/22 A61K9/24 A61K9/44 A61K9/70 A61M31/00 B31C11/06 B31C13/00 B31F1/00 B32B31/06 B32B31/08 B32B31/18 B32B33/00 B65B57/00 B65B9/06 B65H81/00 D21H5/14
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European class:	A61J3/00 A61K9/20K A61K9/20P A61K9/28 A61K9/70 K61F13/02M10
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Abstract:
Source: US4029757A Pharmaceutical dosage forms comprising an edible web having deposited thereon or at least partially thereon a particulate medicament, the webs being thereafter fabricated and finished to pharmaceutically elegant solid dosage forms having no medicament exposed on an exterior surface. The dosage forms have a consistency of release of medicament which can be controlled to exacting specifications. The disclosed solid dosage forms are prepared by high speed automated equipment and the process by which they are made is characterized by non-destructive quality control analysis and performance evaluation both conducted on-**line** and integrated into the manufacturing operation. Included in the scope of the disclosed invention are certain **apparatus** and methods of manufacture.



20) Family number: 4354104 (US4075493A)

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Title: OPTICAL TEMPERATURE MEASUREMENT TECHNIQUE UTILIZING PHOSPHORS

Priority: CA19770293132 19771215 CA19800346789 19800229 US19780877977 19780215 US19800167691 19800710 US19760751366 19761216 GB19770051006 19771207

Family:

Publication number	Publication date	Application number	Application date
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US4448547 A	19840515	US19800167691	19800710
US4560286 A	19851224	US19830558305	19831205

Probable Assignee: LUXTRON CORP

Assignee(s):(std)**:** ALVES RONALD ; ALVES RONALD VIEIRA ; WICKERSHEIM KENNETH ALAN ; LUXTRON CORP

Assignee(s): HAMBRECHT AND QUIST 235 MONTGOMERY STREET SAN FRAN ; LUXTRON A CORP OF CA CORP ; MED TECH VENTURES INC C O WARNER LAMBERT CO 201 TA ; LUXTRON CORP MOUNTAIN VIEW CALIF US ; WICKERSHEIM KENNETH A ; MED TECH VENTURES INC ; WICKERSCHEIM KENNETH ALAN ; COMERICA BANK ; GRACE VENTUES CORP ; HAMBRECHT AND QUIST

Inventor(s):(std)**:** WICKERSHEIM KENNETH A ; WICKERSHEIM KENNETH ALAN ; KENESU ARAN UIKAASHIEIMU

Inventor(s): A WICKERSHEIM KENNETH ; KENNETH ALAN WICKERSHEIM

Agent(s): MACRAE AND CO

International class (IPC 8-9): G01J1/58 G01J5/08 G01J5/10 G01K1/02 G01K11/20 G01K11/32 G01K7/00 G01N21/62 (Advanced/Invention); G01J1/00 G01J5/08 G01J5/10 G01K1/00 G01K11/00 (Core/Invention)

International class (IPC 1-7): C09K11/08 G01J1/58 G01J5/02 G01J5/08 G01J5/10 G01K11/12 G01K11/20 G01K13/00 G01M9/00 G01N21/31 G01N21/38 G01N21/64

CPC: G01J5/60 G01J5/046 G01J5/08 G01J5/0821 G01J5/0862 G01J5/0896 G01K1/024 G01K11/3213 G01J5/48 G01M9/067

European class: G01J5/08 G01J5/08B17 G01J5/08B5A G01J5/08S G01J5/48 G01J5/60 G01K1/02C G01K11/32B2 G01M9/06D2 S01J5/04D

US class: 128/736 250/337 250/459 250/461.1 250/461R 356/44 356/45 374/121 374/131 374/137 374/141 374/152 374/159 374/161 374/E01.004 374/E1.004 374/E10.04 374/E11.017 600/549

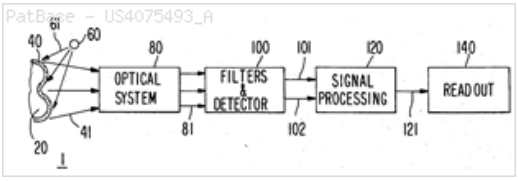
Classification Explorer

Cited documents: US4448547 A, US4215275 A, US4179927 A, US4140393 A, US4136566 A, US4075493 A, US4061578 A, US4016761 A, US3965360 A, US3929018 A, US3872727 A, US3822598 A, US3822593 A, US3811777 A, US3734620 A, US3639765 A, US3626758 A, US3529121 A, US3315160 A, US3256518 A, US3215846 A, US3142755 A, US2945954 A, US2642538 A, US2551650 A, US2071471 A, JP53031035 A2, JP49051452 A2, JP49031382 A2, GB1480583 A, FR2319120 A1, DE2632633 A1, AU488339 A1,

Forward Citations: WO9816807, WO9734123, WO9710748, WO9621869, WO8908224, WO8603293, WO12060562, WO12060562, WO11127593, WO11127250, WO09052222, WO06020770, WO03023343, WO02069797, WO02069797, WO0006796, USRE42389, USRE42184, USRE42076, USRE31832, US9833287, US9823121, US9625395, US9557344, US9557227, US9464350, US9395301, US9354529, US9339191, US9304084, US9297762, US9228948, US9189598, US9056039, US9046477, US9022649, US8982316, US8975598, US8961006, US8956350, US8876409, US8847830, US8829393, US8751188, US8695430, US8614097, US8586893, US8568402, US8552915, US8545077, US8480666, US8444554, US8405828, US8401873, US8334812, US8328877, US8323275, US8313951, US8308357, US8277119, US8211099, US8201997, US8177427, US8173266, US8142350, US8140148, US8105841, US8042997, US7959338, US7910499, US7809431, US7717617, US7690842, US7659187, US7628533, US7578616, US7559481, US7534031, US7510776, US7470229, US7455638, US7438468, US7377689, US7374335, US7330013, US7326365, US7302289, US7252763, US7209605, US7192397, US7186978, US7160255, US7104683, US7104683, US7080940, US7075707, US7059766, US6974641, US6939313, US6890307, US6882875, US6862549, US6816803, US6799137, US6793817, US6746149, US6707974, US6682216, US6667527, US6648506, US6647350, US6588236, US6575620, US6572265, US6569319, US6514420, US6491868, US6451202, US6426232, US6413875, US6413147, US6364831, US6325536, US6289229, US6254830, US6237421, US6221205, US6185443, US6132958, US6130981, US6123455, US6114704, US5995865, US5989243, US5946441, US5900649, US5897552, US5891352, US5882305, US5876119, US5851488, US5836694, US5830277, US5803606, US5788374, US5754717, US5743903, US5732166, US5730528, US5688266, US5683179, US5606163, US5600147, US5520190, US5512758, US5470155, US5456682, US5419312, US5359887, US5355423, US5352040, US5351322, US5351268, US5348396, US5332316, US5319978, US5304809, US5302027, US5255980, US5232285, US5226730, US5222810, US5211480, US5209570, US5203696, US5183338, US5158720, US5127077, US5119463, US5118943, US5115811, US5112137, US5107445, US5094959, US5092680, US5090818, US5089749, US5085073, US5043585, US5035513, US5004913, US5000901, US4999504, US4986671, US4980847, US4929561, US4925268, US4900933, US4885633, US4884860, US4883354, US4880972, US4859079, US4854321, US4823166, US4819658, US4803049, US4799756, US4791585, US4789992, US4785824, US4776827, US4768886, US4755684, US4752141, US4739171, US4729668, US4710033, US4708494, US4679157, US4673299, US4652143, US4626693, US4626110, US4626068, US4621929, US4613237, US4607963, US4606351, US4599901, US4592664, US4576485, US4575259, US4560286, US4560248, US4558217, US4542987, US4516864, US4509370, US4508461, US4504114, US4492121, US4472052, US4459044, US4457603, US4448547, US4446543, US4437772, US4428656, US4428017, US4427306, US4376890, US4374328, US4363061, US4359622, US4288159, US4278349, US4223226, US2016195437, US2016153842, US2016029973, US2015289767, US2015117493, US2014269817, US2013181144, US2013077064,

US2013034122, US2012205347, US2012194667, US2012183012, US2012127440, US2012100625, US2011260065, US2011243510, US2011205751, US2010321257, US2010321192, US2010210472, US2010014060, US2009296778, US2009287137, US2009252649, US2009245326, US2009236495, US2009226326, US2009168842, US2009098657, US2009084986, US2009037135, US2008225926, US2008217306, US2008183165, US2008144698, US2008137711, US2008130707, US2008130311, US2008108209, US2008090385, US2008069180, US2008048103, US2008033300, US2007249943, US2007171958, US2007149858, US2007147033, US2007106112, US2007064767, US2007015283, US2006251147, US2006250683, US2006190211, US2006176930, US2006140248, US2006119840, US2006115202, US2006105585, US2006102607, US2006081777, US2006067379, US2006060862, US2006030754, US2005261568, US2005240116, US2005123451, US2004258130, US2004252748, US2004222893, US2004197816, US2004182761, US2004178338, US2004135552, US2004104336, US2004059235, US2003231818, US2003142935, US2003088187, US2003048831, US2003045798, US2003036877, US2003018280, KR101226634, KR101193492, JP62501448, JP55026494, GB2350892, GB2350892, GB2333357, FR2775781, FR2513432, EP2666425, EP2503021, EP2378259, EP2322101, EP2322101, EP1379162, EP1105550, EP0967477, EP0940662, EP0803071, EP0560903, EP0183329, EP0151958, EP0144630, EP0095673, EP0094236, EP0091394, EP0029653, EP0006530, DE3921929, DE3122788, DE3036682, CN103743499, CN103616156, CN103091591,

Abstract:
Source: US4075493A A technique wherein an object or environment to be measured is provided with a phosphor material layer that emits at least two optically isolatable wavelength ranges whose intensity ratio depends upon the object or environment temperature. This technique is applied to remote hostile environment point temperature measurements, such as in large enclosed electrical power transformers and other large equipment, to the measurement of surface temperatures, such as in airplane structures being tested in wind tunnels, and elsewhere.



21) Family number: 24050124 (US4103358A)

Title: **FLUID** MIXING AND DISPENSING SYSTEM

Priority:
CA19760260403 19760902 CA19800347764 19800317 CA19810369573 19810128
CA19810375033 19810408 CA19810386844 19810928 US19750609957 19750903
US19770849127 19771107 US19790010812 19790209 US19780896556 19780414
US19770849524 19771107

Family:

Publication number	Publication date	Application number	Application date
CA1102163 A1	19810602	CA19800347764	19800317
CA1102163 A2	19810602	CA19800347764	19800317
CA1106218 A1	19810804	CA19760260403	19760902
CA1124563 A1	19820601	CA19810369573	19810128
CA1124563 A2	19820601	CA19810369573	19810128
CA1126563 A1	19820629	CA19810375033	19810408
CA1126563 A2	19820629	CA19810375033	19810408
CA1166183 A1	19840424	CA19810386844	19810928
CA1166183 A2	19840424	CA19810386844	19810928
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US4197942 A	19800415	US19770849524	19771107
US4197942 B1	19840904	US19770849524	19771107
US4217054 A	19800812	US19780896556	19780414
US4217054 B1	19840612	US19780896556	19780414
US4227818 A	19801014	US19770849127	19771107
USRE30610 E	19810512	US19790010812	19790209
USRE30610 F1	19840605	US19790010812	19790209

Probable Assignee: PICKER CORP

Assignee(s):(std)**:** PICKER CORP

Assignee(s): DOUGLAS DYNAMICS LLC ; GACKI LEONARD W

Inventor(s):(std)**:** DALY ROBERT E ; GACKI LEONARD W ; LEONARD W GACKI ; ROBERT E DALY

Agent(s): RIDOUT AND MAYBEE LLP

International class (IPC 8-9): B01F13/10 B01F15/02 B01F15/04 G03B27/00 G03C5/16 G03D3/04 G03D3/06 G03D3/16 (Advanced/Invention);
B01F5/00 (Advanced/Non-invention);
B01F13/00 B01F15/02 B01F15/04 G03B27/00 G03D3/02 G03D3/06 G03D3/16 (Core/Invention);
B01F5/00 (Core/Non-invention)

International class (IPC 1-7): B01F13/04 B01F15/02 B01F15/04 B65D25/08 G03B27/00 G03C5/16 G03D3/04 G03D3/16

CPC: B01F15/0201 Y10T137/2536 B01F15/00155 B01F13/1055 B01F15/0205 B01F15/0212 B01F15/026 B01F15/0454 B01F2005/002 B01F2215/0093 G03D3/06

European class: B01F13/10G B01F15/00K1D B01F15/02B B01F15/02B40U B01F15/02B6 B01F15/02B6N B01F15/04H5 G03D3/06 L01F215/00A116 L01F5/00A8

US class: 137/101.27 141/94 206/219 206/427 222/23 222/83 222/86 366/142 366/150 366/152.2 366/152.6 366/153 366/153.1 366/162.1 366/165.4 366/167.1 366/177.1 396/625

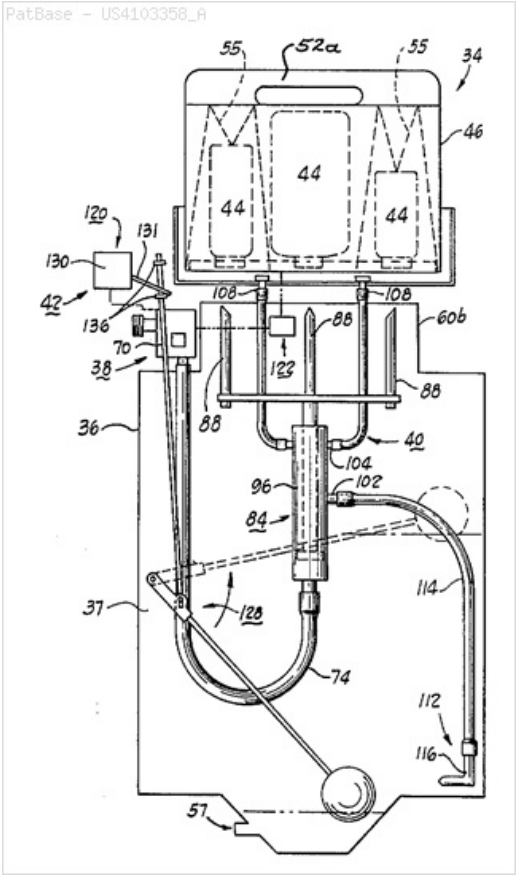
Classification Explorer

Cited documents: US689799 A, US623307 A, US4002267 A, US3794301 A, US3785412 A, US3767085 A, US3756471 A, US3705598 A, US3638833 A, US3613956 A, US3412902 A, US3367353 A, US3345997 A, US3326531 A, US3243163 A, US3139343 A, US3133726 A, US3131831 A, US2954898 A, US2950814 A, US2946574 A, US2939381 A, US2907495 A, US2899106 A, US2879811 A, US2774393 A, US2711268 A, US2278723 A, US2024208 A, US1925466 A, US1657782 A,

Forward Citations: WO9318436, WO8303585, WO0209860, WO0178804, WO0037127, USD590658, USD582458, USD541174, USD507183, US9073017, US8261780, US7607592, US7048898, US7028719, US6951276, US6773174, US6645708, US6588927, US6527758, US6520693, US6481884, US6468722, US6355161, US6271043, US6137965, US6058954, US5941416, US5797681, US5788099, US5752124, US5705066, US5697702, US5694991, US5694635, US5690821, US5688046, US5614979, US5585550, US5581322, US5576795, US5570154, US5547645, US5488447, US5416551, US5235372, US5184164, US5151731, US5017951, US4967221, US4941519, US4941131, US4814809, US4801047, US4795059, US4712740, US4682737, US4676287, US4634252, US4575007, US4570856, US4558823, US4488582, US4458733, US4432755, US4381841, US4321939, US4312595, US4271965, US2015361775, US2015202580, US2012314530, US2012279912, US2010024915, US2005167298, US2002136087, JP2002337917, GB2147819, FR2556854, FR2545001, EP1457219, EP0774294, EP0774292, EP0769718, EP0741326, EP0660179, EP0424820, EP0271610, EP0204372, EP0204372, EP0005374, DE3508089, AU759206,

Abstract:
Source: US4103358A A **fluid** mixing system and method is disclosed for automatically mixing precise concentrations of photographic processing chemistry to be used in an X-ray film processor. The system produces a fresh batch of mixed solution whenever a previous batch has been reduced to a predetermined minimum volume. A pair of substantially identically constructed mixing units are provided to produce both developer and fixer solutions for film processing. Each unit has: a chemical supply structure for supplying chemicals from containerized supplied; a storage and mixing tank structure which underlies the chemical supply structure and defines a reservoir for mixing the chemistry with water; a water input valve for selectively introducing water under pressure into the tank structure; control **apparatus** for conditionally controlling operation of the water valve; and a chemical release assembly which is **coupled** to and actuated by the water valve. The chemical release assembly is operated by the pressure of the water as the water is admitted through the water valve. Operation of the release assembly causes piercing of the containers, allowing the chemistry to drain into the reservoir. The pressurized water creates a swirl for agitating and thoroughly mixing the chemistry and the water.

PatBase - US4103358_A



22) Family number: 18914193 (US4109862A)

© PatBase

Title: SONIC ENERGY TRANSDUCER

Priority: CA19780300591 19780406 EP19810901027 19801110 US19790040557 19790521
US19780886288 19780313 US19780886289 19780313 US19770785838 19770408
WO1980US01503 19801110 US19880149475 19880128 US19800213843 19801208
US19840570162 19840112

Family:

Publication number	Publication date	Application number	Application date
AR218659 A1	19800630	AR19780271691	19780405
AT26887 E	19870515	AT19800901027T	19801110
AU197834740 A1	19791011	AU19780034740	19780404
BE865730 A	19781005	BE19780186602	19780405
BR7802170 A	19781121	BR19780002170	19780407
CA1098564 A1	19810331	CA19780300591	19780406
DE2815085 A1	19781214	DE19782815085	19780407
DE3071960 D1	19870604	DE19803071960	19801110
EP0064975 A1	19821124	EP19810901027	19801110
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EP0064975 B1	19870429	EP19810901027	19801110
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FR2386354 A1	19781103	FR19780010061	19780405
FR2386354 B3	19800808	FR19780010061	19780405
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JP53130512 A2	19781114	JP19780041694	19780407
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JP60004743 B4	19850206	JP19780041694	19780407
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NL7803682 A	19781010	NL19780003682	19780406
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US4109862 A	19780829	US19770785838	19770408
US4189101 A	19800219	US19780886289	19780313
US4192465 A	19800311	US19780886288	19780313
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US4372169 A	19830208	US19800109839	19800107
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US4730500 A	19880315	US19840570162	19840112
US4896541 A	19900130	US19880149475	19880128
WO8201670 A1	19820527	WO1980US01503	19801110
WO8502970 A2	19850718	WO1985US00046	19850110
WO8502970 A3	19850801	WO1985US00046	19850110

Probable Assignee: HUGHES TECHNOLOGY GROUP LLC

Assignee(s):(std)**:** HUGHES N ; HUGHES NATHANIEL ; HUGHES SCIENCES GROUP INC ; VORTECH SCIENCES INC ; VORTRAN CORP

Assignee(s): HUGHES TECHNOLOGY GROUP LLC ; VORTECH SCIENCES INC A CORP OF DE ; NATHANIEL HUGHES ; NASANIIRU HYUUZU ; VORTECH SCIENCE INC ; VORTECH SCIENCE INC A CORP OF DE ; NATHANIEL HUGHES TE PALM SPRINGS CALIFORNIE VER ST V AM ; VORTEX ENERGY CORP

Inventor(s):(std)**:** HUGHES N ; HUGHES NATHANIEL ; NASANIIRU HIYUUZU

Inventor(s): NASANIIRU HYUUZU ; NATHANIEL HUGHES ; SOK

Agent(s): HIRONS AND ROGERS

Designated states: AT BE BR CH DE DK FI FR GB JP LI LU NL SE

International class (IPC 8-9): A61M15/00 B05B1/34 B05B17/06 B05B7/00 B05B7/06 B05B7/10 B05B9/00 F15C1/16 F23D11/34 G01F1/32 G01F1/36 G01F1/40 G01F1/78 G01F1/88 G01F5/00 G10K5/00 (Advanced/Invention);
A61M11/06 A61M16/12 (Advanced/Non-invention);
A61M15/00 B05B1/34 B05B17/04 B05B7/00 B05B7/02 B05B9/00 F23D11/00 G01F1/32 G01F1/34 G01F1/76 G01F5/00 G10K5/00 (Core/Invention);
A61M11/06 A61M16/10 (Core/Non-invention)

International class (IPC 1-7): A61M11/02 B04C3/06 B05B1/00 B05B1/02 B05B1/04 B05B1/34 B05B17/06 B05B7/06 B05B7/10 B05B9/00 F04F5/24 F15B5/00 F15C1/16 F15D1/08 F23D11/10 F23D11/34 G01F1/32 G01F1/34 G01F1/44 G01F1/78 G10K10/00 G10K5/00 G10K7/06

CPC: A61M2206/14 G01F1/36 G01F1/88 G01F5/005 Y10S261/78 Y10S261/48 A61M16/125 G01F1/40 G01F5/00 B05B7/0012 G01F1/44 A61M11/06 A61M15/00 A61M2206/16 B05B1/34 B05B7/066 B05B7/10 G01F1/32 G01F1/3209 Y10T137/2087 B05B17/0692 F23D11/34 G10K5/00 A61M16/0858 A61M2016/0027

European class: A61M15/00 B05B1/34 B05B17/06C B05B7/00B B05B7/06C3 B05B7/10 F23D11/34 G01F1/32 G01F1/32A G01F1/36 G01F1/40 G01F1/44 G01F1/88 G01F5/00 G01F5/00B G10K5/00 K61M11/06 K61M16/12A6 K61M206/14 K61M206/16

US class: 128/200.21 137/808 239/102 239/338 239/405 239/406 239/431 239/463 239/467 239/470 239/500 239/524 239/589.1 239/590.3 239/590.5 261/DIG.48 261/DIG.78 73/272R 73/861.22 73/861.220 73/861.42 73/861.52

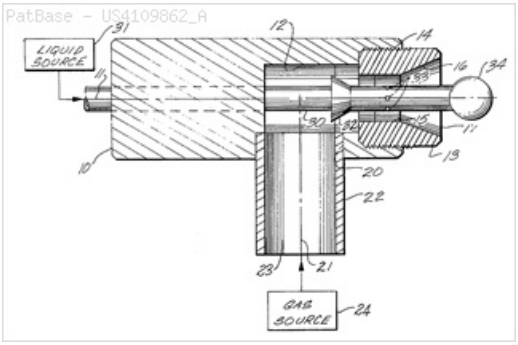
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US4241877 A, US4240293 A, US4195044 A, US4192465 A, US4190203 A, US4189101 A, US4161878 A, US4109862 A, US3958760 A, US3940986 A, US3874234 A, US3806029 A, US3785204 A, US3778038 A, US3758033 A, US3756515 A, US3747851 A, US3719073 A, US3638859 A, US3256677 A, US3232267 A, US3226029 A, US3116639 A, US3064619 A, US2826454 A, US2240119 A, US2197214 A, US2146371 A, US1935445 A, US1249601 A, US1145234 A, US1143631 A, US1126275 A, SU263446 T, IT452965 A, GB764889 A, FR2357868 A1, FR1104208 A, EP0007111 A2, DE405084 A, DE2201607 A1, DE1949449 A1,

Forward Citations: WO9748971, WO9748496, WO9420018, WO8601731, WO8601730, WO8502347, WO8502346, WO8500883, WO8201670, WO8201669, WO15013416, WO13052728, WO10008866, WO10008866, WO09158605, WO09158605, WO03004101, WO02051322, USD791930, US9895505, US9572943, US9448091, US9399199, US9352106, US9279706, US9239063, US9194729, US9156044, US9032815, US9010663, US9004375, US8905023, US8789769, US8590561, US8548753, US8542122, US8513004, US8419378, US8393555, US8390455, US8376059, US8358210, US8223021, US8193395, US8141798, US8115635, US7921927, US7897121, US7892825, US7726408, US7721811, US7686093, US7604006, US7595487, US7393331, US7325538, US7258024, US7086777, US7013738, US6886342, US6868741, US6854341, US6824839, US6658945, US6651512, US6619138, US6591695, US6484590, US6412353, US6170338, US6158676, US6058787, US5984662, US5908990, US5898108, US5808209, US5763764, US5693226, US5616841, US5443075, US5365795, US5363857, US5363705, US5127274, US5038773, US4972830, US4896541, US4825704, US4702415, US4635857, US4620670, US4483482, US4461425, US4458842, US4453542, US4241877, US4240293, US4192465, US4189101, US2016001239, US2015153207, US2014261433, US2013255670, US2011284596, US2010286066, US2010193609, US2010193203, US2010181081, US2010154895, US2010152562, US2010129888, US2009326839, US2009314500, US2009240088, US2009218412, US2009159080, US2009090363, US2009057439, US2009050801, US2009042278, US2008312136, US2008310970, US2008230632, US2007210186, US2007114480, US2007105768, US2007010834, US2006278736, US2006278410, US2006237090, US2006230844, US2006163380, US2004261792, US2004173030, US2004134288, US2004112062, US2004042336, US2004015107, RU2599585, RU2530117, GB2479823, GB2383136, GB2383136, GB2312292, GB2312292, GB2214108, GB2214108, EP1904239, EP1081487, EP1081487, EP0687161, EP0581163, EP0248644, EP0248644, EP0248644, DE3916056, DE102010014873, DE10131516, AU678455, AU2011244814,

Abstract:
Source: US4109862A A flow passage having a restriction is **connected** between a **fluid** inlet and outlet. A frustum is disposed in the flow passage between the inlet and the restriction. The frustum has a base facing away from the restriction, and an apex facing toward the restriction. The inlet is transverse to the axis of the flow passage and positioned so the base and a portion only of the frustum are directly exposed to the inlet. The frustum is mounted on a rod extending through the flow passage. In one embodiment, a sphere is mounted on the end of the rod beyond the outlet. The rod may be hollow and have holes near the restriction for the purpose of liquid feed.



23) Family number: 8217897 (US4150672A)

Title: **INJECTION DEVICE** AND METHOD

Priority:
US19760471528 19761112 US19760741528 19761112 US19790001091 19790108
US19790025047 19790329 US19780964953 19781130 US19790030277 19790416
US19810248512 19810327 US19810248260 19810327 US19810248246 19810327
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US19810260964 19810506 US19830494662 19830516

Family:

Publication number	Publication date	Application number	Application date
US4150672 A	19790424	US19760741528	19761112
US4235234 A	19801125	US19780964953	19781130
US4267836 A	19810519	US19790030277	19790416
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Inventor(s):(std)**:** MARTIN III J KELL ; MARTIN III JOHN K ; MARTIN JOHN K ; MARTIN JOHN K III ; WHITNEY DOUGLAS S G ; WHITNEY DOUGLASS G

International class (IPC 8-9):
A61B5/0215 A61M25/02 A61M39/04 A61M5/142 A61M5/145 A61M5/155 A61M5/172 A61M5/46 (Advanced/Invention);
A61M5/145 A61M5/158 (Advanced/Non-invention);
A61B5/0215 A61M39/02 A61M5/142 A61M5/145 A61M5/168 (Core/Invention);
A61M5/145 (Core/Non-invention)

International class (IPC 1-7): A61M37/00 A61M5/00 A61M5/20

CPC: A61M5/46 A61M25/02 A61M2005/1581 A61M2025/0266 A61M2025/028 Y10S128/01 Y10S128/12 Y10S128/13 A61M5/14566 A61M2205/18 A61M2205/50 A61M2205/502 A61M2205/8206 A61M5/155 A61B5/0215 A61M5/1422 A61M5/14546 A61M5/1723 A61M39/04 A61M2005/14506 A61M2205/0294 A61M2005/14513

European class: A61B5/0215 A61M25/02 A61M39/04 A61M5/142G2D A61M5/145B12 A61M5/145B6 A61M5/155 A61M5/172B A61M5/46 K61M25/02F K61M25/02G K61M5/145A4 K61M5/158A

US class: 128/214F 128/215 128/216 128/218A 128/655 128/DIG.1 128/DIG.12 128/DIG.13 128/DIG.2 222/333 222/390 222/644 600/432 604/111 604/117 604/118 604/135 604/143 604/152 604/154 604/155 604/177 604/179 604/206 604/224 604/228 604/245 604/246 604/28 604/31 604/506 604/67

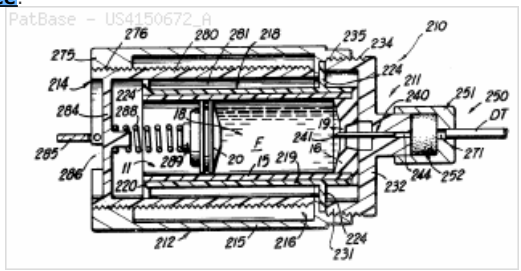
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Abstract:
Source: US4150672A Method and **apparatus** for **injecting** **fluids** into patients at a controlled rate from an ampule with a tubular side wall closed at one end with a penetrable plug and a sliding piston in the side wall to force the **fluid** through an opening in the penetrable member using either a long duration **injector** with an expelling means to move the ampule piston, drive means for operating the expelling means, and control means for incrementally and successively **connecting** and disconnecting the drive means to the expelling means or a short duration **injector** with a spring drive or a **fluid** pressure drive to move the ampule piston and meter the **fluid** through a metering **device**.



24) Family number: 18682701 (US4151088A)

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Title: MEMBRANE DIFFUSION **DEVICE** WITH INTEGRAL HEAT EXCHANGER AND RESERVOIR

Priority:

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CA19780312825 19781006
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Family:

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Probable Assignee: BAXTER INT INC

Assignee(s):(std)**:** BAXTER TRAVENOL LAB ; BAXTER TRAVENOL LABORATORIES INC ; BAXTER TRAVENOL LABORATORIES INC TE DEERFIELD ILLI

Assignee(s): BAXTER TRAVENOL LABOR INC ; BAXTER TRAVENOL LAB INC ; BAXTER TRAVENOL LABORATORIES INC DEERFIELD ILL US ; BAXTER TRAVENOL LABORATORIES INC 60015 DEERFIELD ILL US ; BAXTER TRAVENOL LABORATORIES INC TE DEERFIELD ILLINOIS VER ST V AM ; OMNIS SURGICAL INC ; BAXTER TRAVENOL LABS INC ; BAXTER TRAVENOL LABORATORIES INC US ; OMNIS SURGICAL INC A DE CORP ; WOLF LUDWIG JR ; CAPENTER WALTER L ; HELFER JOEL N ; BRATTEN WILLIAM R ; DENNEHEY T MICHAEL ; GREFF RICHARD J ; BAKUSUTAA INTERN INC ; BAXTER INT ; BAXTER INT INC

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Agent(s): ARTHUR S CAVE AND CO; BERESKIN AND PARR; REINHOLD COHN AND PARTNERS

International class (IPC 8-9): A61J1/00 A61J1/05 A61M1/00 A61M1/14 A61M1/16 A61M1/22 A61M1/28 A61M1/32 A61M39/00 A61M39/02 A61M39/10 A61M39/22 A61M5/14 B01D63/00 B01D63/14 F16L15/04 F16L37/24 (Advanced/Invention);
A61J1/00 A61J1/05 A61J1/14 A61M1/28 A61M1/36 (Advanced/Non-invention);
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A61J1/00 A61J1/14 A61M1/28 A61M1/36 (Core/Non-invention)

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European class: A61J1/00 A61J1/00T A61J1/05 A61J1/10 A61M1/03B6 A61M1/16S A61M1/28 A61M39/00 A61M39/10 A61M39/22C A61M5/14 B01D63/08F K61J1/00C K61J1/14 K61M1/16B2 K61M1/28 K61M1/36C4 K61M39/10G K61M39/10U L01D313/38 L01D313/50

US class: 128/213A 138/109 138/89 138/96R 210/180 210/188 210/262 210/321.75 210/321.77 210/321B 210/450 210/493.1 264/258 422/48 604/244 604/283 604/29 604/406 604/534 604/905 D24/129

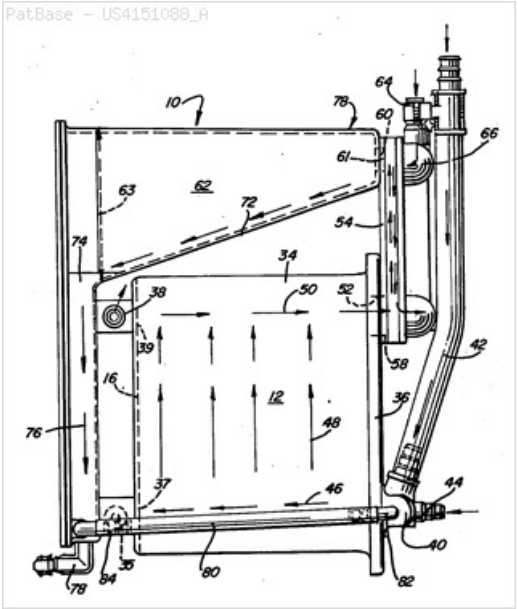
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Forward Citations: WO9910694, WO9633762, WO9116938, WO8900866, WO8700441, WO8303975, WO8303538, WO8101800, WO8101793, WO17048955, WO13151114, WO13140380, WO13140380, WO12042202, WO12042202, WO10059964, WO08031516, WO0174292, USRE35225, USD793551, USD786427, USD785790, USD712537, USD709612, USD699841, USD699840, USD698440, USD695398, USD663022, USD655393, USD654573, USD652511, USD652510, USD650478, USD649240, USD645547, USD644731, USD640372, USD634840, USD630320, USD629894, USD624180, USD605755, USD582550, USD582033, USD574491, USD571464, USD571006, USD532258, USD517209, US9895527, US9889288, US9889277, US9884176, US9861733, US9861732, US9855377, US9839775, US9827410, US9809355, US9795731, US9757147, US9752730, US9750953, US9750926, US9732891, US9724458, US9707342, US9700660, US9683683, US9677554, US9669206, US9649418, US9603985, US9597442, US9593679, US9586003, US9579488, US9562640, US9555180, US9555179, US9539379, US9535021, US9533137, US9533135, US9517295, US9512949, US9492574, US9486590, US9474874, US9464741, US9440060, US9415200, US9388929, US9358332, US9302037, US9295742, US9278206, US9272082, US9265523, US9247902, US9238129, US9238119, US9205243, US9192753, US9186494, US9149573, US9131956, US9115708, US9114915, US9084858, US9079692, US9078971, US9046205, US9044544, US9028691, US9028441, US8992489, US8992189, US8992075, US8986243, US8985133, US8961475, US8945042, US8932469, US8926294, US8926175, US8911109, US8888470, US8870850, US8870549, US8852167, US8840581, US8834719, US8834403, US8784394, US8777931, US8777921, US8771508, US8764702, US8758306, US8721884, US8721879, US8647326, US8647308, US8641681, US8628515, US8597230, US8596688,

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Abstract:
Source: US4151088A A diffusion system for blood including a membrane diffusion **device** comprising a plurality of blood flow paths positioned in interleaving diffusion exchange relation, with second **fluid** flow paths positioned on opposite sides of semi-permeable membrane means. The first and second flow paths each communicate with an inlet and an outlet. Heat exchange means having an inlet and an outlet is **connected** at the inlet thereof to the outlet of the first flow paths. A rigid reservoir, also having an inlet and an outlet is **connected** at its inlet to the outlet of the heat exchange means. A blood flow circuit is defined through the membrane diffusion **device**, heat exchange means, and reservoir. The flow circuit defines an essentially constant width, perpendicular to the directions of blood flow, from its beginning to end, to provide a system having good flow distribution in combination with a low pressure drop.



25) Family number: 30467398 (US4296130A)

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Title: Methylsulfonylmethane and methods of use

Priority:

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EP19830109006 19830913
SG19940001481 19941013
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US19790071068 19790930
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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: CARDINAL ASSOCIATES INC DBA BERGSTROM NUTRITION

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Designated states: AT AU BE CH DE DK FR GB IT JP LI LU NL NO SE SU US

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Classification Explorer

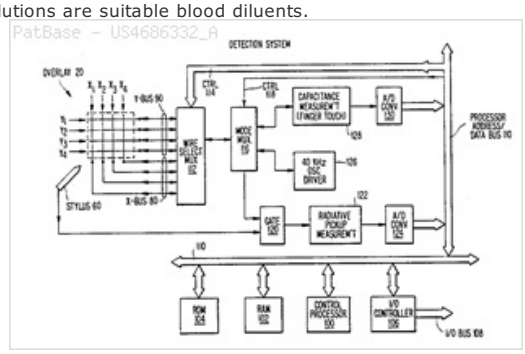
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Abstract:
Source: US4296130A Preparations containing methylsulfonylmethane (MSM) for administration to the skin, nails, other tissue and/or body **fluids** of a human or other animal subject are disclosed. Such compositions soften skin, strengthen nails and provide other benefits when applied topically. And, MSM compositions may also be administered orally, by **injection** and by inhalation. In many instances, the effectiveness of MSM compositions is enhanced when such compositions contain carbamide (urea). Also, carbamide compositions are stabilized when they contain the MSM. For topical administration, MSM compositions may be formulated in creams, lotions or gels which may be used alone or to serve as stable, neutral vehicles for other skin conditioning substances or therapeutically active drugs. Aqueous MSM solutions are suitable blood diluents.



26) Family number: 29181907 (US4331647A)

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Title: Tumor localization and therapy with labeled antibody fragments specific to tumor-associated markers

Priority:
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JP19810501163 19810302 US19820414729 19820903 US19820374662 19820504
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Family:

Publication number	Publication date	Application number	Application date
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Designated states: AT AU BE BR CF CG CH CM DE DK FI FR GA GB HU IT JP KP LI LU MC MG MW NL NO RO SE SN SU TD TG

International class (IPC 8-9):
A61K38/00 A61K39/395 A61K45/00 A61K51/00 A61K51/10 A61K9/08 A61N5/00 A61P35/00 C07K14/575 C07K14/585 C07K14/705 C07K16/00 C07K16/30 C12P21/08 G01N33/574 G01T1/163 (Advanced/Invention);
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International class (IPC 1-7): A61K31/00 A61K39/00 A61K39/395 A61K43/00 A61K45/00 A61K49/00 A61K49/02 A61K51/00 A61K9/08 A61N5/10 C07G7/00 C07K15/06 C07K15/28 G01N33/56 G01N33/574 G01T1/00 G01T1/163

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European class: A61K51/10B30A C07K16/30A K61K121/00 K61K123/00 K61K38/00 M07K203/00 M07K209/00

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Abstract:
Source: US4331647A Methods are provided for using radiolabeled antibody fragments specific to tumor-associated markers for detection, localization and therapy of tumors. Mixtures of labeled fragments with varied specificity or multivalent hybrid fragments permit detection and localization of more than one tumor or tumor cell type. Antibodies and **injectable** compositions for use in the methods of the invention are also provided.

表1　F(ab')$_2$混成抗体フラグメントおよび関連腫瘍タイプ

成分	腫瘍
AFP/HCG	生殖細胞,顆粒性原形質,こう丸,胃腸
CEA/CSAp	胃腸例えば結腸,こう門,胃
CEA/POA	すい臓,肺
CEA/HCG	肺,卵巣,胃腸
CEA/AFP	肝臓,胃腸,卵巣,こう丸
CEA/TAP	大部分
CEA/フェリチン	固形,造血,肝臓
CEA/カルシトニン	甲状腺
CEA/PAP	前立腺
CEA/上皮小体ホルモン	上皮小体,肺
HCG/PBG	顆粒性原形質
CGA/GEA	脳
GFA/CMA	脳

27) Family number: 30150968 (US4405319A)

Title: Porous titanium coating for blood access **device**

Priority:
AU19810069135 19810407 CA19800451053 19800227 GB19810010991 19810408
CA19810376507 19810429 CA19820413689 19821018 CA19810374940 19810408
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Family:

Publication number	Publication date	Application number	Application date
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US4776843 A	19881011	US19800209058	19801121

Probable Assignee: MINNTECH CORP

Assignee(s):(std)**:** MINNTECH CORP ; RENAL SYSTEMS ; RUNARU SYSTEM INC ; RENAL SYSTEM INC ; RENAL SYSTEMS INC

Assignee(s): RENAL SYSTEMS INC A CORP OF MN ; RENAL SYSTEMS INC MINNEAPOLIS MINN US ; MINTETSUKU CORP ; AMIOT BRUCE P ; COSENTINO LOUIS C ; CRACAUER RAYMOND F ; FLEET NATIONAL BANK AGENT AS ; FULLER LARRY E ; MARTINEZ FELIX J

Inventor(s):(std)**:** RUISU SHII KOSENCHINO ; REIMONDO EFU KURAKOUA ; RAYMOND F CRACAUER ; RARII II FUYURAA ; MARTINEZ FELIX JESUS ; MARTINEZ FELIX J ; MARTINEX FELIX JESUS ; LOUIS C COSENTINO ; LOUIS C COSENTINE ; LOUIS C CONSENTINO ; LC COSENTINO ; FULLER LARRY E ; FUERITSUKUSU JIIZASU MARUCHINESU ; FUERITSUKUSU JIIZASU MARUCHINE ; FUERITSUKUSU JIESASU MARUCHINESU ; FUERITSUKUSU JIESASU MARUCHINE ; LARRY E FULLER ; FELIX JESUS MARTINEZ BRUCE P AMIOT LARRY E FULLER ; FELIX JESUS MARTINEZ ; FELIX JESUS MARTINEX ; CRACAUER RAYMOND F ; COSENTINO LUIS C ; COSENTINO LOUIS C ; COSENTINO L C ; COSENTINE LOUIS C ; CONSENTINO LOUIS C ; BRUCE P AMIOT ; AMIOT BRUCE P ; BURUUSU PII AMIOTSUTO

Inventor(s): BRUCE PAMIOT ; LUIS C COSENTINO ; FELIX J MARTINEZ ; FELIX JESUS MARTINEZ BRUCE P AMIOT LARRY E... ; C COSENTINO LOUIS ; F CRACAUER RAYMOND ; E FULLER LARRY ; L C COSENTINO ; JESUS MARTINEZ FELIX ; FUERITSUKUSU JESASU MARUCHINESU ; FELIX JMARTINEZ ; FELIX JESUS MARTINEZ BRUCE P AMIOT LARRY E FULLER LOUIS C COSENTINO ET RAYMOND F CRACAUER ; LARRY EFULLER ; LUIS CCOSENTINO ; P AMIOT BRUCE ; MARTINEZ FELIX JESUS PLYMOUTH MINN ; REIMONDO EFU KURAKOA ; RAYMOND FCRACAUER

Agent(s): GRIFFITH HACK; RIDOUT AND MAYBEE LLP

Designated states: CH DE FR GB IT LI SE

International class (IPC 8-9): A61B5/15 A61F2/06 A61F2/10 A61J1/00 A61L27/00 A61M1/00 A61M1/14 A61M1/28 A61M5/00 (Advanced/Invention);
A61B5/15 A61F2/06 A61J1/00 A61L27/00 A61M1/00 A61M1/14 A61M5/00 (Core/Invention)

International class (IPC 1-7): A61B17/00 A61B17/28 A61F1/00 A61F2/04 A61F2/06 A61J1/00 A61M1/00 A61M1/02 A61M1/03 A61M1/14 A61M1/28 A61M1/36 A61M37/00 A61M37/04 A61M5/00 A61M5/14 A61M5/16 A61M5/32 G01N33/48

CPC: A61M39/0247 A61M2039/0258 A61M2039/027 A61M2039/0294 A61M2039/0264 A61M2039/0261 A61M2039/0282

European class: A61M39/02T K61M39/02T11 K61M39/02T18 K61M39/02T22 K61M39/02T5 K61M39/02T8 K61M39/02T9

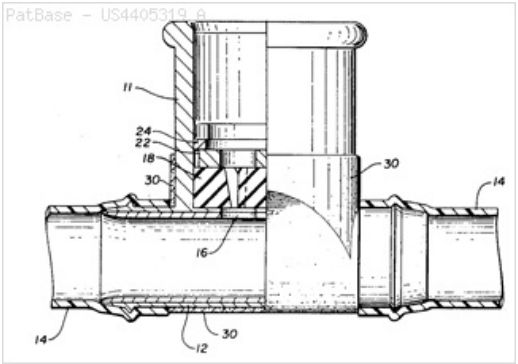
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Classification Explorer

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Forward Citations: WO9808466, WO9411037, WO9311696, WO9311696, WO9213590, WO9211045, WO9003827, WO8901998, WO8801518, WO8704079, WO8606282, WO8603980, WO14128323, WO0103754, WO0103754, USRE44639, USRE41448, USRE39334, USRE38145, USRE37357, US9878140, US9872702, US9814869, US9757110, US9737335, US9737334, US9700296, US9687272, US9669153, US9649102, US9642608, US9603988, US9561024, US9538997, US9492634, US9474842, US9474540, US9474519, US9468426, US9447892, US9408597, US9387278, US9370619, US9370618, US9351759, US9351717, US9333001, US9308351, US9307976, US9307975, US9295773, US9295459, US9289200, US9289115, US9278172, US9277908, US9271753, US9265866, US9241697, US9226760, US9192366, US9179901, US9131835, US9125981, US9101354, US9095300, US9078695, US9072886, US9072880, US9067043, US9039717, US9033931, US9017254, US9005116, US8986202, US8973583, US8961410, US8961406, US8945163, US8932214, US8926506, US8911366, US8894571, US8888693, US8870904, US8862225, US8858638, US8821391, US8808254, 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Abstract:
Source: US4405319A An implantable blood access **device** has a matte titanium finish on the exterior subcutaneous surfaces thereof providing sites for tissue ingrowth. A preferred finish is a coating of porous titanium which may be manufactured by fusing titanium powder to the **device**.



28) Family number: 34548864 (US4378797A)

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Title: EXTRAVASCULAR CIRCULATION OF OXYGENATED SYNTHETIC NUTRIENTS TO TREAT TISSUE HYPOXIC AND ISCHEMIC DISORDERS

Priority:

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EP19830102082 19830303
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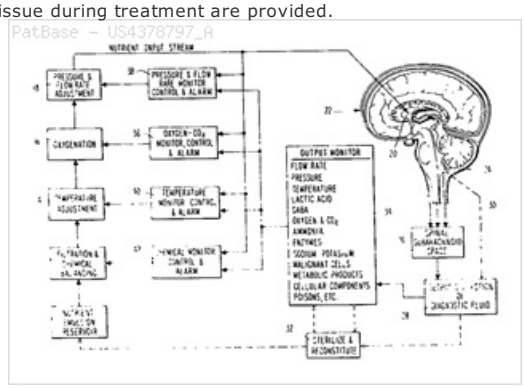
Probable Assignee:	UNIV JEFFERSON
Assignee(s):(std)**:**	UNIV JEFFERSON ; THOMAS JEFFERSON UNIVERSITY
Assignee(s):	THOMAS JEFFERSON UNIVERSITY PHILADELPHIA PA ; THOMAS JEFFERSON UNIV A CORP OF PA ; THOMAS JEFFERSON UNIV A CORP OF PENNSYLVANIA ; THOMSON JEFFERSON UNIV ; THOMAS JEFFERSON UNIVERSITY PHILADELPHIA PA US ; THOMAS JEFFERSON UNIV PHILADELPHIA PA ; JEFFERSON T UNIV ; JEFFERSON T UNIVERSITY ; OSTERHOLM JEWELL L ; THOMAS JEFFERSON UNIV ; THOMAS JEFFERSON UNIV 11TH AND WALNUT STREETS PHILADELPHIA PA A CORP OF PA
Inventor(s):(std)**:**	FRAZER GLENN D ; JEUERU ERU OSUTAAFUORUMU ; JEUERU TEI OSUTAAHORUMU ; JEWELL L OSTERHOLM ; OSTERHOLM J ; OSTERHOLM J T ; OSTERHOLM JEWELL L ; OSTERHOLM JEWELL T ; JEWELL T OSTERHOLM
Inventor(s):	J T OSTERHOLM ; JT OSTERHOLM
Agent(s):	SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; KIRBY EADES GALE BAKER
Designated states:	AT BE CH DE FR GB IT LI LU NL SE
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Classification Explorer

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Abstract:
Source: US4378797A A novel system and method for treating ischemic neurologic tissue is disclosed wherein an oxygenated nutrient emulsion is circulated through at least a portion of the cerebospinal pathway. The nutrient emulsion contains an oxygenatable non-aqueous component, an aqueous nutrient component, an emulsification component, and other components which render physiologic acceptability of the nutrient emulsion. Methods for producing the nutrient emulsion and a system for delivering that emulsion to the cerebrospinal pathway are also disclosed. Additionally, novel diagnostic methods for diagnosing the physiologic state of hypoxic-ischemic and other diseased neurologic tissue during treatment are provided.



29) Family number: 30537754 (US4462412A)

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Title: Annular electromagnetic radiation applicator for biological tissue, and method

Priority:

EP19810901087 19810331	EP19810901087P 19810331	US19820405947 19820806
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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: BSD MEDICAL A CORP OF UT CORP

Assignee(s):(std)**:** BSD MEDICAL CORP

Assignee(s): BSD MEDICAL CORP SALT LAKE CITY UTAH US ; BII ESU DEE MEDEIKARU CORP ; BSD CORP ; BSD MEDICAL A CORP OF UT CORP

Inventor(s):(std)**:** TURNER P ; TURNER PAUL F

Inventor(s): TURNER PAUL F NORTH SALT LAKE UT 84054 US ; TAANAA HOORU EFU

Designated states: AT CH DE FR GB JP LI LU NL SE

International class (IPC 8-9): A61B5/01 A61N1/40 A61N5/02 (Advanced/Invention); A61N1/40 (Core/Invention)

International class (IPC 1-7): A61B5/00 A61N1/40 A61N5/00 A61N5/02 G01K11/00

CPC: A61N5/02 A61N1/403

European class: A61N1/40T A61N5/02

US class: 128/399 128/804 219/10.55R 219/696 219/697 219/702 219/704 324/119 324/95 343/703 343/793 343/802 600/549 607/102 607/154 607/156 607/98

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Abstract:
Source: US4462412A A method is described for selecting an electromagnetic radiation (EMR) frequency causing substantially uniform heating in cylindrical biological tissue specimens, having a typical cross-sectional dimension, d, and known electrical properties, by an annular applicator configured for applicator-specimen impedence matching. Accordingly, an annular applicator system (10) comprises an EMR source (32) having a selected frequency wavelength in a specimen (20) between two-thirds and twice the specimen dimension, d. **Connected** to the source (32) is an annular applicator **apparatus** (12) formed of four applicator segments (16), circumferentially arranged to form an axial specimen receiving opening (18). A composite EMR emitting aperture (22), formed around the opening (18) has an axial height to circumferential width ratio causing matching, at the selected frequency, between a characteristic impedance of the **apparatus** (12) and a load impedance of the specimen (20) as seen through the aperture. A **line** splitter (36) enables parallel EMR **connection** of the segments (16) to the source (32). Two variation annular **apparatus** (200) and (252) are described.

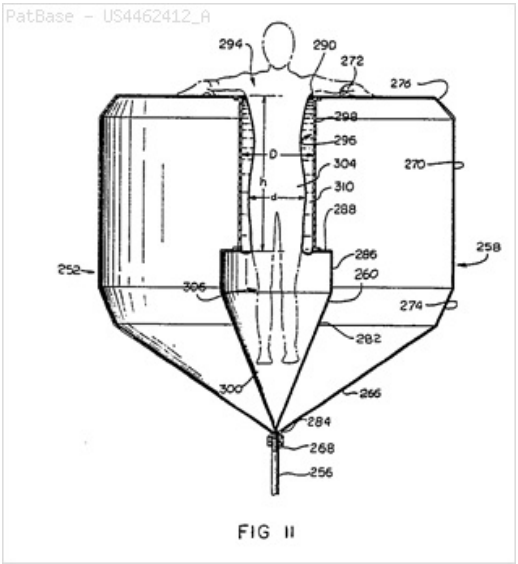


FIG II

30) Family number: 30354406 (US4432756A)

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Title: Parenteral controlled therapy

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Family:

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Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; SMART AND BIGGAR; REINHOLD COHN AND PARTNERS

International class (IPC 8-9): A61M5/00 A61M5/14 A61M5/145 A61M5/168 (Advanced/Invention);
A61M5/145 (Advanced/Non-invention);
A61M5/14 A61M5/168 (Core/Invention);
A61M5/145 (Core/Non-invention)

International class (IPC 1-7): A61J A61K9/22 A61M1/02 A61M37/00 A61M5/00 A61M5/14 A61M5/16 A61M5/168

CPC: A61M5/1407 A61M2005/14513

European class: A61M5/14B K61M5/145A4

US class: 424/424 424/425 424/473 604/246 604/251 604/406 604/518 604/519 604/56 604/80 604/82 604/83 604/84 604/85 604/890.1 604/892 604/892.1 604/92 D24/117 D24/118

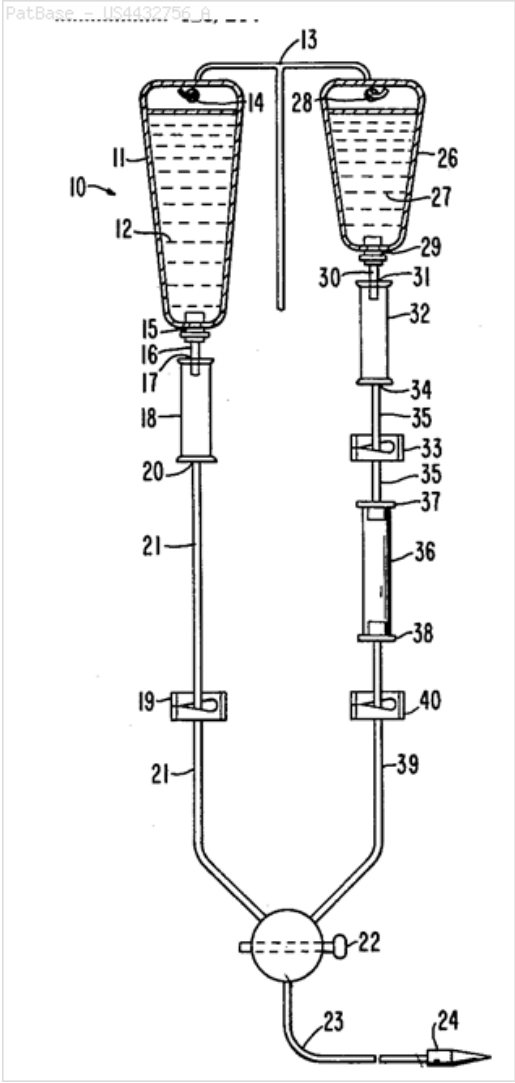
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Forward Citations: WO9961086, WO9958175, WO9943370, WO9943368, WO9813082, WO9744074, WO9741904, WO9621481, WO9621480, WO9621479, WO9621478, WO9601135, WO9425100, WO9320884, WO9320863, WO9310851, WO9304729, WO9214509, WO9106330, WO9013323, WO9012609, WO9010467, WO9009201, WO9009200, WO8905167, WO8904689, WO8904688, WO8904687, WO8904654, WO8904639, WO8904190, WO8707159, WO8707158, WO8603417, WO8603416, WO10121285, WO03072167, WO03030934, WO02055144, WO0101775, WO0044418, WO0009183, WO0009183, USD672455, USD635664, USD634005, USD536783, US9855377, US9795731, US9657271, US9629722, US9579202, US9486590, US9339475, US9272129, US9084858, US9029144, US9017296, US8932469, US8911414, US8876787, US8834719, US8834403, US8827924, US8679541, US8672876, US8663128, US8491543, US8471231, US8444587, US8425470, US8403291, US8382711, US8361054, US8361012, US8343111, US8329030, US8323492, US8231566, US8226627, US8226597, US8221529, US8182445, US8123947, US8114276, US8080091, US8048419, US8025716, US8025714, US8022375, US7998121, US7994220, US7988768, US7976513, US7927618, US7915246, US7892332, US7892331, US7888342, US7871462, US7820643, US7815612, US7641851, US7455657, US7435795, US7425209, US7407489, US7402154, US7367963, US7358505, US7222622, US7202341, US7150727, US7074216, US7041800, US7041799, US6979311, US6942636, US6923785, US6890328, US6875203, US6852103, US6838090, US6752790, US6716208, US6685670, US6682758, US6641556, US6640649, US6623447, US6610832, US6610040, US6595950, US6582415, US6572605, US6540715, US6539311, US6539248, US6520937, US6497680, US6336916, US6309373, US6294092, US6288027, US6277092, US6242472, US6206954, US6182698, US6166092, US6159192, US6113583, US6090092, US6090091, US6090071, US6080132, US6071270, US6071269, US6070761, US6063068, US6036669, US6022339, US6019750, US5989237, US5941843, US5921955, US5911704, US5906598, US5871461, US5857993, US5788665, US5779674, US5755689, US5755688, US5746715, US5738651, US5707353, US5707352, US5704910, US5593385, US5575779, US5562608, US5549550, US5533973, US5531734, US5531683, US5531682, US5531681, US5510115, US5490848, US5489281, US5484415, US5433709, US5433704, US5423751, US5417676, US5417675, US5395323, US5385546, US5378232, US5354278, US5334170, US5318520, US5312389, US5308335, US5267981, US5263940, US5250028, US5249702, US5205820, US5185084, US5176665, US5160320, US5151093, US5116316, US5104390, US5089606, US5074844, US5069671, US5057606, US5045059, US5030454, US5030203, US5024657, US5011477, US5011472, US4998926, US4994031, US4985017, US4985016, US4973307, US4969872, US4969871, US4961932, US4952210, US4938748, US4936829, US4920105, US4915242, US4874366, US4871360, US4871352, US4869457, US4865592, US4853229, US4832690, US4831018, US4822339, US4804366, US4790820, US4769027, US4750643, US4715850, US4579553, US4552555, US4540403, US4534757, US4521211, US2016174741, US2013102975, US2011196293, US2011144557, US2011137237, US2011137236, US2011092895, US2011046899, US2011046516, US2011028899, US2011015568, US2010204651, US2010160897, US2010140515, US2010136687, US2010105778, US2010082001, US2009254034, US2009101576, US2009088675, US2009084721, US2009084719, US2009084718, US2009081296, US2008319402, US2008300570, US2008255502, US2008243058, US2008243057, US2008226733, US2008181932, US2008153919, US2008071217, US2007072946, US2006138384, US2006003004, US2005283121, US2005238497, US2005235733, US2005137566, US2005135965, US2005133729,

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Abstract:
Source: US4432756A A parenteral delivery set is disclosed for administering a beneficial agent to a recipient. The set comprises (a) a primary container of a **medical** **fluid**; (b) a primary tubing in **fluid** communication with the primary container; (c) a secondary container of a **medical** **fluid**; (d) a secondary tubing in **fluid** communication with the secondary container; (e) a formulation chamber **connected** to the secondary tubing and housing an agent dispensing **device** or the beneficial agent; and (f) a common tubing in communication with the primary tubing and the secondary tubing for communicating the set to the recipient.



31) Family number: 2149893 (US4662829A)

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Title: Pulsatile pump

Priority:
CA19820410447 19820830 CA19850475954 19850307 EP19850901697 19850304
US19810297728 19810831 US19860934736 19861125 EP19850901697 19850304
WO1985US00351 19850304 US19840587250 19840307 US19840568356 19840105

Family:

Publication number	Publication date	Application number	Application date
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EP0173737 A1	19860312	EP19850901697	19850304
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WO8503982 A1	19850912	WO1985US00351	19850304

Probable Assignee: BARD INC C R

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

Assignee(s): C R BARD INC ; C R BARD INC A CORP OF NJ ; C R BARD INC MURRAY HILL N J US ; DAVOL INC ; C R BARD INC TE MURRAY HILL NEW JERSEY VER ST V AM ; CR BARD INC ; DAVOL INC A DE CORP ; NEHRING JOHN R ; BARD C R INC ; BARD CR INC

Inventor(s):(std)**:** NEHRING J R ; NEHRING JOHN RICHARD ; NEHRING R ; NERHRING JOHN R ; NEHRING JOHN R ; JIYON AARU NIIRINGU

Inventor(s): JOHN RICHARD NEHRING ; NEERINGU JON AARU ; J R NEHRING ; JOHN R NEHRING ; JOHN R NERHRING ; R NEHRING JOHN

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; OGILVY RENAULT LLP SENCRL SRL

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

International class (IPC 8-9): A61B17/00 A61C17/02 A61C17/028 A61M1/00 A61M1/10 A61M5/14 A61M5/142 F04B43/06 F04B43/10 F04B43/14 (Advanced/Invention);
A61M1/10 (Advanced/Non-invention);
A61B17/00 A61C17/00 A61M1/00 A61M1/10 A61M5/14 A61M5/142 F04B43/00 (Core/Invention)

International class (IPC 1-7): A61B17/00 A61C17/028 A61M1/00 A61M1/10 A61M5/14 F04B43/06 F04B43/10 F04B43/12 F04B43/14 F04B45/08 F04B45/8

CPC: F04B43/10 F04B43/06

European class: F04B43/06 F04B43/10

US class: 417/395 604/153

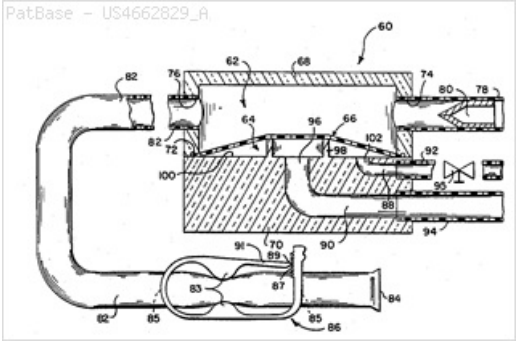
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Forward Citations: WO12033612, WO12033612, USD802118, USD799025, USD765238, USD752209, USD751690, USD751689, USD749206, USD745661, USD733868, US9895262, US9856990, US9795507, US9772044, US9759343, US9746094, US9746093, US9724467, US9724466, US9724465, US9700457, US9700344, US9566188, US9522221, US9435455, US9393353, US9372486, US9295765, US9295764, US9151646, US9119896, US8911686, US8851866, US8784790, US8636721, US8449500, US8439484, US8366667, US8357115, US8337475, US8235971, US8177772, US8158102, US7998101, US7947010, US7942647, US7717685, US7662139, US7632080, US7632078, US7481791, US7461968, US7354190, US7297133, US7273465, US7153287, US7144383, US6899693, US6822343, US6746419, US6742992, US6666665, US6652488, US6623445, US6620121, US6585499, US6471668, US6352527, US6312227, US6228056, US6216573, US6213970, US6179807, US6146109, US6132187, US6099494, US6059754, US6022329, US5882339, US5871462, US5842839, US5840060, US5817001, US5807313, US5803712, US5792108, US5746721, US5718668, US5699934, US5643302, US5643203, US5630799, US5630798, US5618269, US5584667, US5558646, US5554293, US5554011, US5538405, US5520667, US5520523, US5505729,

US5487649, US5470305, US5409355, US5322506, US5322413, US5281108, US5193986, US5176629, US5171301, US5046486, US5037437, US4968422, US2015125318, US2011215257, US2011196319, US2011098624, US2010018923, US2009131859, US2008195058, US2008177216, US2008114300, US2008089794, US2008015506, US2007073270, US2006073978, US2005096583, US2005095576, US2005095154, US2005095153, US2005095152, US2005095141, US2005094485, US2005094483, US2005013698, US2004234380, US2004050789, US2003168861, US2003036723, US2002057990, JP62254767, JP62201158, JP2013532246, JP2011524367, JP2011522168, GB2195149, FR2566055, EP0636379, EP0544410, DE102010048751, CN103225599,

Abstract:
Source: US4662829A A two-stroke pumping **device** for developing pulsatile **fluid** flow includes a housing with an internal resilient flexible element. The flexible element defines a pair of chambers within the housing, including a pumping chamber and a driving chamber. The pumping chamber is **connected** to a source of the **fluid** to be pumped and the driving chamber is **connected** to a pneumatic source adapted to create a pressure differential across the flexible element. The **device** includes a means responsive to the flexure of the element in one of the strokes to terminate that stroke and begin the other stroke. The flexible element oscillates to generate repetitive ejection and filling strokes. The pneumatic source may be a source of negative or positive pressure.



32) Family number: 6617828 (US4854343A)

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Title: **FLUID** CONTAINERS

Priority: EP19820900979 19820405 GB19810010733 19810406 US19860904065 19860905
US19820448904 19821203 WO1982GB00105 19820405 GB19820010083 19820405

Family:

Publication number	Publication date	Application number	Application date
AT28102 E	19870715	AT19820900979T	19820405
AU198282779 A1	19821019	AU19820082779	19820405
DE0075572 T1	19830901	DE19820900979T	19820405
DE3276668 D1	19870806	DE19823276668	19820405
EP0075572 A1	19830406	EP19820900979	19820405
EP0075572 B1	19870701	EP19820900979	19820405
EP0231745 A2	19870812	EP19870100047	19820405
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IN158417 A	19861115	IN1982CA00384	19820405
IT1150786 A	19861217	IT19820020616	19820406
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JP58500492 T2	19830331	JP19820501145T	19820405
JP6050160 B4	19940629	JP19820501145T	19820405
KR19830009993 A	19831224	KR19820001508	19820406
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US4854343 A	19890808	US19880160276	19880225
WO8203441 A1	19821014	WO1982GB00105	19820405
ZA8202328 A	19830330	ZA19820002328	19820405

Probable Assignee: RILETT JOHN W

Assignee(s):(std)**:** RILETT JOHN E ; RILETT JOHN W ; RILETT JOHN WALTER

Assignee(s): RILETT JOHN WALTER BIBURY GLOUCESTERSHIRE GB ; RIRETSUTO JON UORUTAA ; RILETT JW

Inventor(s):(std)**:** RILETT J W ; RILETT JOHN E ; WALTER RILETT JOHN ; RILETT JOHN WALTER ; RILETT JOHN W

Inventor(s): JOHN WALTER RILETT ; RIRETSUTO JON UORUTAA ; RILETT JOHN WALTER BIBURY GLOUCESTERSHIRE GB ; RILETT JW

Designated states: AT AU BE CH DE DK FI FR HU JP LI NL NO RO SE SU US

International class (IPC 8-9): A62C13/76 F17C1/14 F17C1/16 F17C13/10 F17C13/12 (Advanced/Invention);
A62C13/00 F17C1/00 F17C13/00 (Core/Invention)

International class (IPC 1-7): A62C23/02 B65D83/14 B65D88/00 F16K17/04 F16K51/00 F17C1/00 F17C1/14 F17C1/16 F17C13/00 F17C13/04 F17C13/10 F17C13/12

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US class: 137/543.19 220/901 222/396 251/126

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FR2786413, EP1762277, EP1701086, EP1701085, EP1005915, EP0283568, DE102004003319, DE10138290, DE10138290, CN105290736, AU598103, AU2012244106,

Abstract:
Source: US4854343A Containers for storing **fluids**, especially carbon dioxide, under pressure comprise a tubular component (made of a deformable material capable of at least 7 percent elongation before fracture) which is preferably closed by a top plug with a filling/emptying **device** (and any end plug) by crimping open end(s) of the component over a circumferential shoulder on the plug(s). A primary pressure relief **device** comprising a poppet with a piston section, a return spring and a control (exit) orifice tolerates and ejects dirt, prevents the formation of solid phase material and vents the contents in brief spurts so as to minimize loss. Desirably, a narrow helical conduit **connects** the primary pressure relief **device** to the container interior and, by being in thermal contact with the tubular component, chills the contents during venting so as to minimize loss. One or more secondary pressure relief **devices**, such as bursting discs, may also be incorporated to vent substantially the whole contents in the event that the primary pressure relief **device** fails to maintain the internal pressure below a safe predetermined level. The construction allows the fitting of alternative adaptor assemblies for various uses and lends itself to automatic assembly. The use of a heat storage substance is also disclosed.

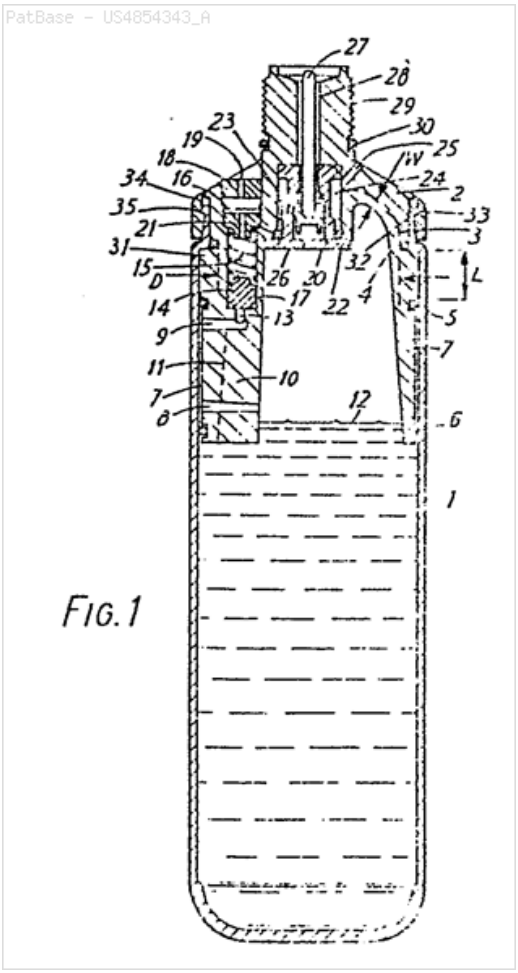


FIG. 1

33) Family number: 29328537 (US4458137A)

Title: Electric heater arrangement for **fluid** flow stream sensors

Priority: CA19820400807 19820408 EP19830900076 19821213 SE19810007458 19811214
WO1982US00423 19820406 WO1982SE00423 19821213 US19810252289 19810409

Family:

Publication number	Publication date	Application number	Application date
AT25817 E	19870315	AT19820900076T	19821213
AU198310465 A1	19830630	AU19830010465	19821213
AU563880 B2	19870723	AU19830010465	19821213
BR8207580 A	19830329	BR19820007580	19820406
CA1182158 A1	19850205	CA19820400807	19820408
DE3269927 D1	19860424	DE19823269927	19820406
DE3275629 D1	19870416	DE19823275629	19821213
EP0076306 A1	19830413	EP19820901393	19820406
EP0076306 A4	19830809	EP19820901393	19820406
EP0076306 B1	19860319	EP19820901393	19820406
EP0108069 A1	19840516	EP19830900076	19821213
EP0108069 B1	19870311	EP19830900076	19821213
IL65601 A1	19871030	IL19820065601	19820425
JP3078757 B4	19911216	JP19820501471T	19820406
JP58500494 T2	19830331	JP19820501471T	19820406
JP58502086 T2	19831208	JP19830500080T	19830812
JP58502086 T2	19831208	JP19830500080T	19821213
SE436687 B	19850121	SE19810007458	19811214
SE436687 C	19850502	SE19810007458	19811214
SE8107458 A	19830615	SE19810007458	19811214
SE8107458 L	19830615	SE19810007458	19811214
US4458137 A	19840703	US19810252289	19810409
US4617016 A	19861014	US19830518805	19830719
WO8203693 A1	19821028	WO1982US00423	19820406
WO8302062 A1	19830623	WO1982SE00423	19821213

Probable Assignee: ROSEMOUNT INC

Assignee(s):(std)**:** BLOMBERG A ; BLOMBERG ANDERS ; ROSEMOUNT INC

Assignee(s): KIRKPATRICK WILLIAM R ; ANDERS BLOMBERG

Inventor(s):(std)**:** KIRKPATRICK WILLIAM R ; BLOMBERG ANDERS ; BLOMBERG A ; ANDERS BLOMBERG

Inventor(s): KAAKUPATORITSUKU UIRIAMU AARU

Agent(s): GRIFFITH HACK; MARKS AND CLERK; REINHOLD COHN AND PARTNERS

Designated states: AT AU BE BR CH DE DK FR GB JP LI LU NL NO SE SU US

International class (IPC 8-9): A61M5/145 A61M5/20 A61M5/315 G01P5/00 G01P5/165 H05B3/06 H05B3/14 (Advanced/Invention);
A61M5/145 A61M5/315 (Advanced/Non-invention);
A61M5/145 A61M5/20 G01P5/00 G01P5/14 H05B3/14 (Core/Invention);
A61M5/315 (Core/Non-invention)

International class (IPC 1-7): A61M5/20 G01F1/46 G01P5/00 G01P5/16 G01P5/165 H01C7/02 H05B1/02 H05B3/02 H05B3/06 H05B3/10 H05B3/14

CPC: G01P5/165 Y10S128/01 A61M5/20 A61M5/1782 A61M2005/3152

European class: A61M5/20 G01P5/165 K61M5/178F K61M5/315C6

US class: 128/DIG.1 219/201 219/209 219/280 219/301 219/308 219/328 219/505 338/22R 338/23 392/479 604/155 604/407 604/414 73/182 73/861.65 73/861.68

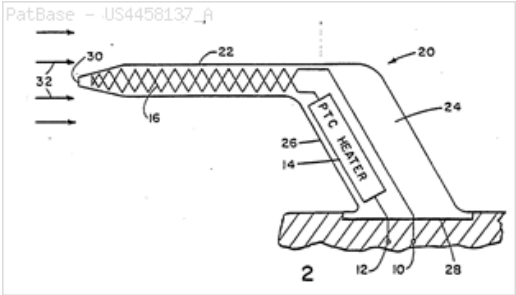
Classification Explorer

Cited documents: US4405318 A, US4354822 A, US4273122 A, US4246787 A, US4246468 A, US4245146 A, US4151401 A, US4121088 A, US4108177 A, US4045763 A, US4000647 A, US3882721 A, US3835434 A, US3720211 A, US3701350 A, US3535930 A, US3488470 A, US3476293 A, US3395704 A, US3375774 A, US3338476 A, US3187164 A, US3030807 A, US2300654 A, US2221547 A, US1919068 A, US1767249 A, JP56001111 U1, JP55053993 U1, JP49122058 A2, JP49008919 A2, JP43018230 Y1, JP43008149 A2, JP40014955 Y1, GB490481 A, GB1371709 A, FR2456905 A1, EP0004365 A1,

Forward Citations: WO9816837, WO15041581, WO02095337, USD774182, USD763433, USD750768, USD587610, USD566595, USD548634, USD545227, US9855390, US9844622, US9744305, US9694131, US9636452, US9616173, US9579257, US9523594, US9480797, US9463335, US9393177, US9387151, US9203227, US9108047, US8870742, US8764175, US8747357, US8734402, US8734393, US8721596, US8677773, US8647299, US8591532, US8591395, US8574200, US8449493, US8392141, US8377079, US8337389, US8308697, US8233995, US8221439, US8192350, US8187226, US8187163, US8187162, US8177749, US8152710, US8142452, US8133203, US8114345, US8104955, US8100870, US8066629, US8057492, US8052645, US8034065, US8016745, US8016744, US7927270, US7915567, US7844342, US7828477, US7775966, US7775215, US7658196, US7645265, US7635356, US7553294, US7540856, US7465290, US7419478, US7357572, US7186951, US7081105, US7029459, US6958053, US6941805, US6892584, US6881932, US6840672, US6808513, US6733478, US6652489, US6613019, US6609825, US6562008, US6475192, US6452542, US6414282, US6402718, US6370450, US6070475, US5983733, US5814015, US5709668, US5690618, US5653538, US5552576, US5360410, US5354287, US5337602, US5043558, US5009514, US4998570, US4950246, US4917101, US4812615, US4767406, US4759189, US2017106993, US2015328405, US2015053306, US2015053305, US2012193279, US2011106475, US2011013664, US2010192608, US2010185178, US2010152655, US2010130930, US2010069846, US2010022955, US2009312632, US2009292246, US2009187136, US2008285620, US2008228143, US2007250010, US2007173770, US2007102412, US2007064766, US2005273079, US2005165360, US2005165349, US2005101913, US2004261518, US2004244477, US2004093953, US2004037348, US2004015137, JP63164963, GB2410188, GB2410188, FR3047564, EP3211432, EP3046602, EP0293958, DE102007016099, CN103568547, CN103568547,

Abstract:
Source: US4458137A An air data sensor **device**, such as a pitot, total air temperature sensor, etc., includes an elongated probe having a sensor therein for sensing air flow parameters and a strut for positioning the probe in a desired position on an air vehicle. To avoid ice build-up on the **device** causing erroneous sensing of air flow parameters a substantially constant wattage electric resistive heater is provided in the probe for deicing. A PTC (positive temperature coefficient) resistive heater is disposed in the support at a location thermally isolated from the probe heater but in thermally conductive relationship to the external

surface of the support. The PTC heater is **connected** in series with the probe heater and continuously varies heater power in response to the rate of heat dissipation at the external surface of the sensor **device** thereby preventing burn-out of the probe heater and erosion of the probe. A second constant wattage heater **connected** in parallel with the PTC heater is located within the probe and has a maximum rated power selected to insure that during conditions of minimum heat dissipation of the probe heater sufficient additional heat is supplied to the probe to perform the deicing function without raising the probe to damaging temperatures.



34) Family number: 31497173 (US2002188057A)

Title: GELATINOUS ELASTOMER COMPOSITIONS AND ARTICLES FOR USE AS FISHING BAIT

Priority:

JP20030204428	20030731	US19770778343	19770317	US19830458703	19830117
US19800134977	19800328	US19780916731	19780619	US19770815315	19770713
US19920876118	19920429	US19900527058	19900521	US19910705096	19910521
US19910705711	19910523	US19880211426	19880624	US19860921752	19861021
US19840572172	19840118	US19900527085	19900521	US19950469960	19950606
US19950467198	19950606	US19940211781	19940419	US19940719817	19940930
US19930152735	19931115	US19930114688	19930830	US19920957290	19921006
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US19950581191	19951229	US19950581125	19951229	US19930130545	19931001
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US19970819675	19970317	US19990230940	19990203	US19960211781	19960514
US19970845809	19970429	US19960719817	19960930	US19960665343	19960617
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US20030420493	20030421	US20030420490	20030421	US20020334542	20021231
US20020299073	20021118	WO1997US17534	19970930	WO1994US04278	19940419
WO1994US07314	19940627	WO1994US04278	19940401	US20020993361	20020720
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Family:

Publication number	Publication date	Application number	Application date
AU199749774 A1	19980424	AU19970049774	19970930
BRPI9711582 A	20000118	BR1997PI11582	19970930
CA2267441 AA	19990329	CA19972267441	19970930
CN1579352 A	20050216	CN200410070350	20040729
EP1006933 A1	20000614	EP19970912657	19970930
HK1071843 A3	20050805	HK20050104608	20050601
JP2005046247 A2	20050224	JP20030204428	20030731
US2002188057 AA	20021212	US20020199361	20020720
US2003004253 AA	20030102	US20010896047	20010630
US2003083422 AA	20030501	US20020299073	20021118
US2003122446 AA	20030703	US20020273828	20021017
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US2003134958 AA	20030717	US20020334542	20021231
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US2004249056 AA	20041209	US20030420489	20030421
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US2007197949 AA	20070823	US20070787257	20070412
US2007238835 AA	20071011	US20070810584	20070605
US4369284 A	19830118	US19800134977	19800328
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US5239723 A	19930831	US19920934027	19920824
US5262468 A	19931116	US19910705711	19910523
US5324222 A	19940628	US19920876118	19920429
US5334646 A	19940802	US19920957290	19921006
US5334646 B1	19980908	US19920957290	19921006
US5336708 A	19940809	US19920935540	19920824
US5467626 A	19951121	US19930130545	19931001
US5475890 A	19951219	US19930114688	19930830
US5508334 A	19960416	US19930152735	19931115
US5624294 A	19970429	US19930152734	19931115
US5633286 A	19970527	US19940288690	19940811
US5633286 B1	20001010	US19940288690	19940811
US5638724 A	19970617	US19950469960	19950606
US5655947 A	19970812	US19910705096	19910521
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US5760117 A	19980602	US19950581191	19951229
US5868597 A	19990209	US19940256235	19940627
US5884639 A	19990323	US19970819675	19970317
US5938499 A	19990817	US19970845809	19970429

US5962572 A	19991005	US19950581125	19951229
US6033283 A	20000307	US19960211781	19960514
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US6117176 A	20000912	US19970863794	19970527
US6148830 A	20001121	US19960719817	19960930
US6161555 A	20001219	US19990230940	19990203
US6324703 BA	20011204	US19970984459	19971203
US6333374 BA	20011225	US19970954424	19971020
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US7134236 BB	20061114	US20020199361	20020720
US7134929 BB	20061114	US20030420488	20030421
US7159259 BB	20070109	US20020334542	20021231
US7193002 BB	20070320	US20030420487	20030421
US7208184 BB	20070424	US20020199362	20020720
US7222380 BB	20070529	US20030420489	20030421
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US7344568 BB	20080318	US20030420492	20030421
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US7661164 BB	20100216	US20070787257	20070412
US7930782 BB	20110426	US20070810584	20070605
WO9513851 A1	19950526	WO1994US04278	19940419
WO9600118 A1	19960104	WO1994US07314	19940627
WO9814133 A1	19980409	WO1997US17534	19970930

Probable Assignee: APPLIED ELASTOMERICS INC

Assignee(s):(std)**:** APPLIED ELASTOMERICS INC ; BOEING CO ; CHEN JOHN Y ; TOPCON CORP

Assignee(s): TOPCON KK ; THE BOEING COMPANY ; ALLIED ELASTOMERICS INC ; KABUSHIKI KAISHA TOPCON ; PATENT AND LICENSE OFFICE

Inventor(s):(std)**:** CHEN JOHN YOUNG FU ; CHEN JOHN YOUNGFU ; IORI MOTOGI ; KAZUHISA NOMURA ; NEMOTO IORI ; NOMURA KAZUHISA ; OYAGI WATARU ; SAGEHASHI HIDEO ; SANDERS DANIEL G ; WATARU OYAGI ; CHEN JOHN Y

Inventor(s): CHEN JOHN ; JOHN Y CHEN ; MOTOGI IORI

Agent(s): GOWLING LAFLEUR HENDERSON LLP; APPLIED ELASTOMERICS INC; ARMSTRONG KRATZ QUINTOS HANSON AND BROOKS LLP; JOHN Y CHEN APPLIED ELASTOMERICS INC

Designated states: AT AU BE BR CA CH CN CZ DE DK ES FI FR GB GE GR HU IE IT JP KR LU MC NL NO NZ PL PT RO RU SE US VN

International class (IPC 8-9): A01K84/00 A01K85/00 A01K85/01 A01K97/04 A01N15/00 A01N25/00 A23L1/00 A23L1/05 A23L1/317 A23L1/325 A23L13/60 A23L17/00 A23L29/20 A46B1/00 A46B9/04 A47C17/00 A47C27/00 A47C7/00 A61B18/20 A61B19/00 A61C15/00 A61C15/04 A61F2/06 A61F2/78 A61F2/80 A61F9/007 A61F9/008 A61K31/70 A61K47/00 A61M5/00 A61M5/158 A63H1/32 A63H27/18 A63H33/18 B01D61/38 B21D26/02 B21D26/055 B21D37/20 B29C67/20 B32B27/00 B32B27/22 B32B27/30 B60K28/00 B60K3/00 B60R21/16 B60R21/26 B60R22/00 B61C15/00 B63B11/04 B63B9/08 B68G11/04 B68G5/00 C08F1/28 C08F175/00 C08F297/04 C08J5/02 C08K3/00 C08K5/01 C08K5/24 C08L1/00 C08L23/16 C08L25/10 C08L51/00 C08L53/00 C08L53/02 C08L53/05 C08L9/00 C09D11/02 C09J153/02 C09J7/02 C10G1/04 C21D8/02 C22C38/42 C22C38/48 C22C38/50 C22C38/54 C22C38/58 G01N33/56 G01N33/57 H02N1/00 H02N2/00 (Advanced/Invention);
A61F2/78 A61M5/31 C08L101/00 (Advanced/Non-invention);
A01K85/00 A01K85/01 A01K97/04 A01N25/00 A23L1/05 A23L1/317 A23L1/325 A47C17/00 A47C27/00 A47C7/00 A61B18/20 A61B19/00 A61C15/00 A61F2/06 A61F2/50 A61F9/007 A61K31/70 A61K47/00 A61M5/00 A61M5/14 A63H1/00 A63H33/00 B01D61/38 B21D26/00 B21D37/20 B29C67/20 B32B27/00 B32B27/22 B32B27/30 B60K28/00 B60K3/00 B60R21/16 B60R21/26 B60R22/00 B63B11/00 B63B9/00 B68G5/00 C08F297/00 C08K3/00 C08K5/00 C08L1/00 C08L23/00 C08L25/00 C08L51/00 C08L53/00 C08L9/00 C09D11/02 C09J153/00 C09J7/02 C10G1/00 C21D8/02 C22C38/42 C22C38/48 C22C38/50 C22C38/54 C22C38/58 G01N33/56 G01N33/57 H02N1/00 H02N2/00 (Core/Invention);
A61F2/50 A61M5/31 C08L101/00 (Core/Non-invention)

International class (IPC 1-7): A01K85/00 A01N25/00 A23L1/00 A41D13/00 A42B3/00 A47L13/08 A47L25/00 A47L25/08 A61B18/18 A61B18/20 A61C15/00 A61C15/04 A61F2/00 A61F2/78 A61F2/80 A61F9/007 A61F9/008 A61K47/00 A61K7/00 A62B17/00 A63H1/32 A63H27/00 A63H27/14 A63H27/18 A63H3/00 A63H33/00 A63H33/18 B21D26/02 B21K5/20 B32B27/04 B32B27/08 B32B27/12 B32B27/32 B32B5/02 B32B5/16 B60R21/16 B60R21/28 B61C15/00 B63C9/08 B64G6/00 C07C7/10 C08C53/00 C08J5/02 C08J51/00 C08K3/00 C08K3/20 C08K5/00 C08K5/01 C08K5/24 C08L1/00 C08L23/00 C08L3/00 C08L51/00 C08L53/00 C08L53/02 C08L73/00 C08L75/00 C08L9/00 G02B5/04 G02B6/00 H02N1/00

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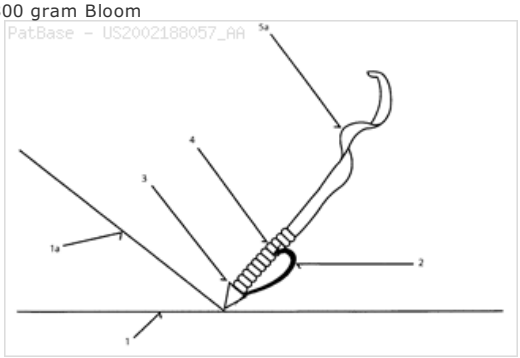
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Abstract:
Source: US2002188057A A soft gelatinous elastomer composition and article useful as fishing bait formed from one or a mixture of two or more of a poly(styrene-ethylene-butylene-styrene) block copolymer(s) and one or more plasticizers being in sufficient amounts to achieve a gel rigidity of from about 20 gram Bloom to about 800 gram Bloom



35) Family number: 8346488 (US4373527A)

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Title: IMPLANTABLE PROGRAMMABLE MEDICATION INFUSION SYSTEM

Priority:

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Agent(s):	SMART AND BIGGAR
Designated states:	DE FR GB JP
International class (IPC 8-9):	A61M1/00 A61M25/00 A61M31/00 A61M5/00 A61M5/14 A61M5/142 A61M5/152 A61M5/172 A61N1/37 A61N1/372 G06F19/00 (Advanced/Invention); A61M5/142 A61N1/372 (Advanced/Non-invention); A61M31/00 A61M5/00 A61M5/142 A61M5/145 A61M5/168 A61N1/362 A61N1/372 G06F19/00 (Core/Invention)
International class (IPC 1-7):	A61B5/00 A61J A61L29/00 A61M1/00 A61M25/00 A61M3/02 A61M31/00 A61M37/00 A61M5/00 A61M5/14 A61M5/142 A61M5/145 A61M5/152 A61M5/16 A61M5/168 A61M5/172 A61M5/20 A61M7/00 A61M7/00 G01R19/165 G05D7/06 G08B23/00 G08C13/00 G08C17/00
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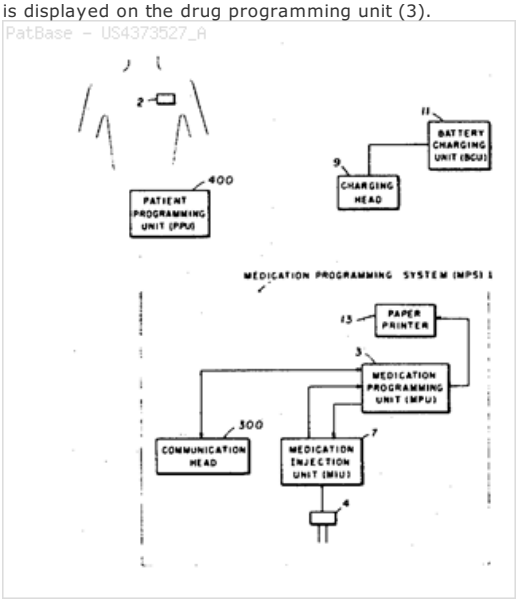
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Abstract:
Source: US4373527A An implantable programmable medication infusion system comprises an implantable portion (2) having a medication reservoir (10) at below body pressure and isolated at its input from the body in which it is implanted by an antechamber (8) the pressure integrity of which is checked before filling the medication reservoir (10). Safety features include a leak detector (35), inlet and outlet valves (14 and 212) used with flow impeding filters (12 and 218), and a maximum allowable

pressure in a pulsatile bellows pump (202) all of which prevent undesired infusion of medication. Medication flow from the pulsatile bellows pump (202) is in response to programming commands from a drug programming system (1) and processed in an electronics section (30) which uses the commands to program memory units (320 and 322) and to request pulses of medication. Hardwired limit controls (324 and 326) prevent excessive dosage requests from reaching the pulsatile bellows pump (202). For patient convenience and safety, the memory units (320 and 322) are programmed with running integral limits. A record of medication dispensing can be communicated to a physician by means of a telemetry transmitter (336) which sends signals by telemetry to the communications head (300) which information is displayed on the drug programming unit (3).



36) Family number: 34574765 (US4643192A)

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Title: Hollow viscus tonometry

Priority:

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Probable Assignee: MOUNTPELIER INVESTMENTS SA

Assignee(s):(std)**:** FIDDIAN GREEN RICHARD G ; HOLTE BO ; INSTRUMENTARIUM CORP ; INSTRUMENTARIUM OY ; MAUNTOPERIAA INVESTMENTS SA ; MOUNTPELIER INVESTMENT S A ; KENT JOEL C ; UNIV MICHIGAN ; MOUNTPELIER INVESTMENTS ; TRI COLOR INVESTMENTS LTD ; RANTALA BOERJE TOR ; UNI MISHIGAN ZA ; MOUNTPELIER INVESTMENTS S A KA

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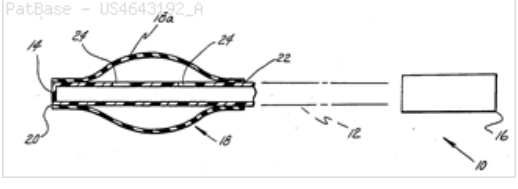
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Forward Citations: WO9916346, WO9813090, WO9813090, WO9801070, WO9737587, WO9625090, WO9428792, WO9312710, WO9001896, WO15105828, WO13127819, WO13109938, WO13085154, WO08154800, WO08107872, WO08107872, WO08046023, WO07001657, WO06003960, WO05115224, WO05115224, WO05104989, WO05069974, WO05069974, WO04075717, WO04075717, WO04071279, WO04071279, WO04064630, WO04032795, WO04032795, WO02096286, WO02073194, WO02073194, WO02068036, WO02056933, WO02056933, WO0162315, WO0162315, WO0074749, WO0036972, WO0035340, WO0004386, WO0004386, USRE44667, USRE42834, US9888867, US9861351, US9833230, US9821139, US9801708, US9801620, US9795730, US9788876, US9763656, US9757119, US9731093, US9724090, US9694113, US9681940, US9662049, US9658125, US9642661, US9622736, US9610227, US9606011, US9603591, US9585605, US9572655, US9561025, US9554750, US9539003, US9538998, US9532777, US9532704, US9526829, US9510821, US9510819, US9504460, US9498204, US9492158, US9486211, US9468433, US9414925, US9414833, US9408599, 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EP1018933, EP0941693, EP0929339, EP0746227, EP0713372, EP0690695, EP0690693, EP0570938, EP0387329, EP0386218, EP0278177, DE19635306, DE102012012180, CN103260690, CN102834063, CN102834063, AU748570, AU693796, AU687554, AU663609, AU2009278778,

Abstract:
Source: US4643192A Ischemia in a hollow internal organ can be detected in its incipient stages by obtaining a CO2 sample from within the organ of interest, measuring the partial pressure of CO2 sample, measuring the bicarbonate concentration of an arterial blood sample, and on the basis of these two measurements calculating the pH of the wall of the organ. The value of the pH is an indicator of the onset of ischemia in the organ. The CO2 sample is obtained by a novel catheter, multiple embodiments of which are disclosed.



37) Family number: 18006895 (US4563286A)

© PatBase

Title: System of ionized oxygen allotrope gas water purification and method and **apparatus** therefor

Priority:
CA19820410003 19820824 CA19860498975 19860103 IN1987CA00951 19871203
IN1983CA01037 19830824 IN1988CA00144 19880217 EP19830901514 19830328
JP19830501635 19830328 US19840678635 19841206 US19840599626 19840412
US19850801599 19851125 US19820363254 19820401 US19820403801 19820805
WO1983US00425 19830328

Family:

Publication number	Publication date	Application number	Application date
AT58709 E	19901215	AT19830901514T	19830328
AU198315519 A1	19831024	AU19830015519	19830328
AU557409 B2	19861218	AU19830015519	19830328
CA1178554 A1	19841127	CA19820410003	19820824
CA1289511 A1	19910924	CA19860498975	19860103
DE3338537 T	19841031	DE19833338537T	19830328
DE3338537 T1	19841031	DE19833338537T	19830328
DE3382024 D1	19910110	DE19833382024	19830328
DE8331950 U1	19870108	DE19830031950U	19830328
EP0105339 A1	19840418	EP19830901514	19830328
EP0105339 A4	19870316	EP19830901514	19830328
EP0105339 B1	19901128	EP19830901514	19830328
IN162842 A	19880716	IN1983CA01037	19830824
IN164579 A	19890415	IN1987CA00951	19871203
IN164580 A	19890415	IN1988CA00144	19880217
JP2016241 B4	19900416	JP19830501635	19830328
JP2126994 A2	19900515	JP19890217162	19890823
JP59500514 T2	19840329	JP19830501635	19830328
OA8295 A	19871030	OA19830058168	19831201
US4563286 A	19860107	US19840678635	19841206
US4655933 A	19870407	US19850801599	19851125
WO8303408 A1	19831013	WO1983US00425	19830328

Probable Assignee: FREDERICK WILLIAM M JR AND HEIDRICH WILLIAM P

Assignee(s):(std)**:** JIYONSON DENISU II JIEE ; JIYONSON SUKOTSUTO JIEE ; JOHNSON D E J ; JOHNSON S J ; JOHNSON DENNIS E J ; JOHNSON D E J JOHNSON S J ; JOHNSON SCOTT J ; JONSON DENISU II JEE ; JONSON SUKOTSUTO JEE

Assignee(s): JOHNSON SCOTT J AURORA ILL US ; JOHNSON SCOTT ; FREDERICK WILLIAM M ; FREDERICK WILLIAM M JR AND HEIDRICH WILLIAM P ; JOHNSON DENNIS E ; JOHNSON DEJ ; JOHNSON DENNIS EJ

Inventor(s):(std)**:** JOHNSON DENNIS E J ; JOHNSON DENNIS EJ ; JOHNSON SCOTT J ; JIYONSON DENISU II JIEE ; JONSON DENISU II JEE ; JONSON SUKOTSUTO JEE

Inventor(s): SCOTT J JOHNSON ; JOHNSON DENNIS E ; JOHNSON SCOTT J AURORA ILL US ; DENNIS E J JOHNSON

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; MACRAE AND CO

Designated states: AT AU BE CF CG CH CM DE DK FI FR GA GB JP LI LU NL NO SE SN TD TG

International class (IPC 8-9): B01J19/08 B01J19/12 B01J7/00 B03C1/00 C01B13/00 C01B13/02 C01B13/11 C02F1/32 C02F1/48 C02F1/72 C02F1/74 C02F1/78 C02F3/08 (Advanced/Invention);
B01J19/08 B01J19/12 B03C1/00 C01B13/00 C02F1/74 (Advanced/Non-invention);
B01J19/08 B01J19/12 B03C1/00 C01B13/00 C01B13/02 C02F1/32 C02F1/48 C02F1/72 C02F1/74 C02F1/78 C02F3/08 (Core/Invention)

International class (IPC 1-7): B01J19/08 B01J19/12 B01J7/00 B03C1/00 C01B13/00 C01B13/02 C01B13/10 C01B13/11 C02B1/38 C02F1/48 C02F1/50 C02F1/72 C02F1/74 C02F1/78 C02F3/08

CPC: Y10S422/907 C02F1/481 C02F1/325 C02F1/72 C02F1/78 C02F2201/3223 C02F2201/782 Y02W10/15

European class: C02F1/32D C02F1/48A C02F1/72 C02F1/78 M02F201/322E M02F201/782

US class: 204/157.15 210/721 210/758 210/760 422/186.01 422/186.07 422/186.08 422/186.3 422/907

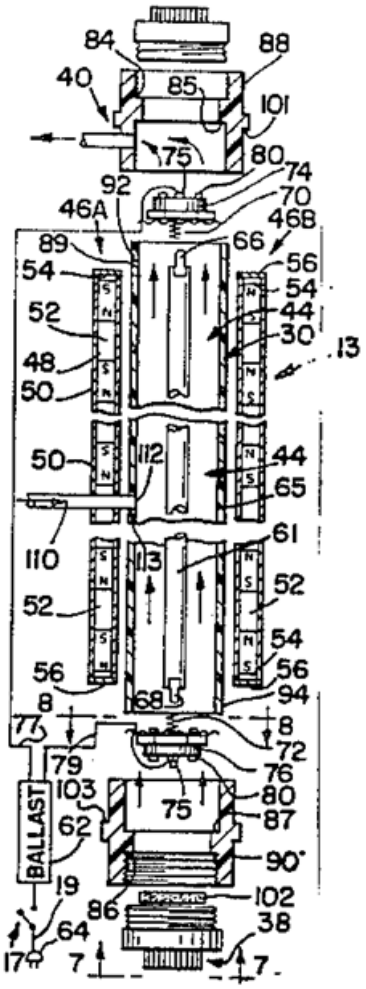
Classification Explorer

Cited documents: US4563286 A, US4338199 A, US4255257 A, US4230571 A, US4229389 A, US4214962 A, US4179616 A, US3186929 A, FR2322830 A1, DE2635576 A1,

Forward Citations: WO9612677, WO9523117, WO9100242, WO16043801, WO12142140, WO09099349, WO06131148, WO04033379, US9862627, US9850148, US9651523, US9650270, US9617177, US9321665, US9187344, US8845901, US8840786, US8702987, US8696915, US8673142, US8628670, US8623205, US8540877, US8506800, US8470172, US8410453, US8361384, US7750775, US7704390, US7407593, US7261822, US6966996, US6939397, US6923901, US5997812, US5888403, US5879546, US5728303, US5711887, US5685994, US5665320, US5635059, US5622622, US5616250, US5597479, US5527459, US5512253, US5443719, US5387400, US5308480, US5234606, US5223105, US5186907, US5180499, US5169606, US5154807, US5130032, US5008087, US4959142, US4957610, US4857204, US4765965, US4655933, US2011303855, US2011192713, US2010213123, US2009230035, US2008237102, US2008210613, US2008164184, US2007062883, US2006275200, US2006275199, US2006275169, US2006273020, US2006273006, US2006272993, US2006272991, US2006272947, US2005175498, US2005072195, US2005006592, US2005000365, US2004159615, US2004118775, US2004099607, US2004076563, EP0392562, EP0270879, DE4125284, DE3645038, DE3606925, DE19654604, DE102006033612, CN102438952, AU636896,

Abstract:
Source: US4563286A A water purification arrangement which uses as the water treating agent ionized oxygen allotrope gas in multiple (multivalent) ion charge forms (as distinguished from common chemical treatment substances), in which the raw material for practicing the invention is ambient atmospheric air, and specifically its atmospheric oxygen content. The arrangement provided has a gas flow path having multivalent oxygen ion allotrope forming sites that each include a magnetic flux field energy zone within the ambient air flow path characterized by interacting multi-polar magnets that exert flux fields across the flow path, and one or more elongate oxygen photolysis lamps enveloping the flux with ultraviolet light wave length ionizing electronvolt radiant energy emissions. The ambient atmospheric air is passed in a continuous flow through the flow path and then is conveyed to and is interspersed in the water to be treated in a continuous flow application.

PatBase - US4563286_A



38) Family number: 4755813 (US4427111A)

Title: INTEGRAL ALCOHOL PREPARATION **DEVICE** AND METHOD

Priority: EP19840900925 19840123 EP19840900925 19840123 US19870099121 19870921 US19850781236 19850923 US19810312879 19811019 US19810312880 19811019 US19880221765 19880720 WO1984US00120 19840123

Family:

Publication number	Publication date	Application number	Application date
AT67739 E	19911015	AT19840900925T	19840123
AU198425746 A1	19850809	AU19840025746	19840123
AU579815 B2	19881215	AU19840025746	19840123
DE3485126 D1	19911031	DE19843485126	19840123
EP0169839 A1	19860205	EP19840900925	19840123
EP0169839 A4	19870110	EP19840900925	19840123
EP0169839 B1	19910925	EP19840900925	19840123
JP61501019 T2	19860522	JP19840500913	19840123
US4427111 A	19840124	US19810312880	19811019
US4427115 A	19840124	US19810312879	19811019
US4696393 A	19870929	US19850781236	19850923
US5046608 A	19910910	US19880221765	19880720
WO8503275 A1	19850801	WO1984US00120	19840123

Probable Assignee: LAIPPLY T C

Assignee(s):(std)**:** LAIPPLY T C ; LAIPPLY THOMAS C ; THOMAS C LAIPPLY

Assignee(s): LAIPPLY TC

Inventor(s):(std)**:** LAIPPLY THOMAS C

Inventor(s): THOMAS C LAIPPLY

Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD

Designated states: AT AU BE CH DE DK FI FR GB JP LI LU NL NO SE SU US

International class (IPC 8-9): A45D37/00 A47K10/16 A61B17/20 A61B19/00 A61F13/00 A61F13/40 A61F15/00 A61M35/00 B65B11/48 B65B43/02 B65B55/18 B65D75/20 B65D75/26 (Advanced/Invention);
A61F13/00 B65B11/48 B65D75/26 (Advanced/Non-invention);
A45D37/00 A47K10/00 A61B17/20 A61B19/00 A61F13/40 A61F15/00 A61M35/00 B65B11/48 B65B43/00 B65B55/02 B65D75/04 B65D75/26 (Core/Invention);
A61F13/00 (Core/Non-invention)

International class (IPC 1-7): A45D37/00 A61B17/20 A61M35/00 B65B11/48 B65B43/02 B65B55/18 B65D75/00 B65D75/20 B65D75/26 B65D83/00 B65D85/67

CPC: Y10S206/812 A61F15/00 A61B17/205 A61M35/006 A47K10/16 A61F2013/00302 A61B90/00

European class: A47K10/16 A61B17/20B A61B19/00 A61F15/00 A61M35/00B2 K61F13/00J23A

US class: 206/209 206/210 206/438 206/441 206/484 206/812 401/132 427/429 53/455

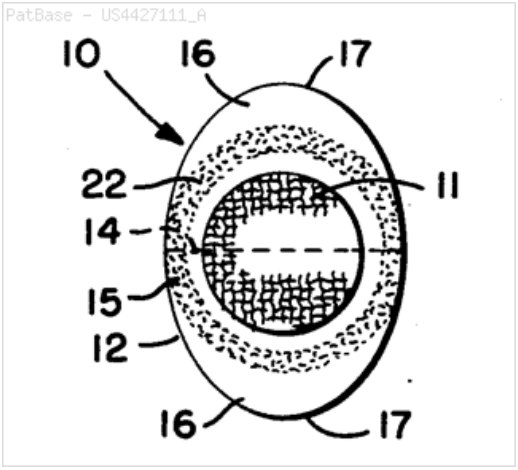
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Cited documents: WO8103283 A1, US4696393 A, US4555022 A, US4427115 A, US4427111 A, US4372098 A, US4342395 A, US4304333 A, US4265234 A, US4053053 A, US3986640 A, US3978636 A, US3903345 A, US3862684 A, US3826259 A, US3809483 A, US3720037 A, US3635567 A, US3580254 A, US3542634 A, US3527400 A, US3507087 A, US3485349 A, US3481099 A, US3439469 A, US3280420 A, US3240326 A, US3057467 A, US3057128 A, US3035300 A, US3025957 A, US2760630 A, US2621784 A, US1810453 A, US1529659, US1527659 A, JP49001629 U1, JP48009917 U1, FR2498903 A3, CA613023 A, BE644007 A, AU228993, AU134382 A1, AU134382, AU116041,

Forward Citations: WO9501765, WO8503275, WO15089258, WO15001486, WO13119504, WO10129498, WO10123419, WO09076161, WO09076161, WO08044282, WO05020776, WO03068308, WO0243968, WO0210033, WO0202042, WO0038778, WO0032321, USD545689, US9884717, US9848773, US9822173, US9791462, US9789005, US9657095, US9657090, US9655517, US9630222, US9617333, US9566421, US9532847, US9399081, US9353174, US9352043, US9351639, US9296812, US9259388, US9253987, US9192443, US9179840, US9155466, US9145457, US9133272, US9089553, US9039967, US9011856, US8992911, US8986685, US8979785, US8936030, US8920392, US8911773, US8911771, US8910830, US8858484, US8757173, US8715663, US8637643, US8623404, US8591130, US8585308, US8584685, US8563271, US8440193, US8403178, US8383801, US8357128, US8329176, US8297866, US8262305, US8240472, US8151987, US8118166, US8100294, US8017120, US8003116, US8003108, US7994299, US7985834, US7977312, US7976234, US7921999, US7872106, US7868134, US7806877, US7799523, US7758858, US7650995, US7637679, US7592429, US7581899, US7572899, US7523821, US7325675, US7243788, US7240790, US6902335, US6899931, US6846449, US6749919, US6746977, US6702742, US6500353, US6446795, US6305531, US6016915, US6007264, US5961500, US5957605, US5875490, US5802655, US5769837, US5694739, US5670004, US5591153, US5562642, US5540962, US5512333, US5487932, US5473789, US5460620, US5458933, US5409747, US5409471, US5368581, US5341992, US5320217, US5316400, US5286538, US5254109, US5242433, US5058738, US5054948, US5046608, US4974730, US4963045, US4946033, US4941226, US4913138, US4901851, US4896768, US4797309, US4696393, US4557381, US4555022, US2016221144, US2015158060, US2015021228, US2015021221, US2013204212, US2013202483, US2013146497, US2013108351, US2013087546, US2011206678, US2011200379, US2011195453, US2011184382, US2011150866, US2011097342, US2011092923, US2011000873, US2010296968, US2010270203, US2010168638, US2010168637, US2010162948, US2010036091, US2010015665, US2009321283, US2009304713, US2009255953, US2009241277, US2009196675, US2009159225, US2009152296, US2009152295, US2009152267, US2009074763, US2008234219, US2008182788, US2008039812, US2008028552, US2007253761, US2007131342, US2007130708, US2007110747, US2007073255, US2007072797, US2006282968, US2006245816, US2006237679, US2006169619, US2006163101, US2006155251, US2006142721, US2006115520, US2005284777, US2005207821, US2005115856, US2005111900, US2005087457, US2005047846, US2004237235, US2004172002, US2004168947, US2004158045, US2004121106, US2004120989, US2004058321, US2004047953, US2004028720, US2003153091, US2003010670, US2002185401, US2002156436, US2002114657, US2002011424, JP2015508675, GR1000230, GR1000230, GB2257036, FR3008080, FR2994522, FR2811302, EP2975178, EP1483011, EP1063543, EP0543406, EP0411578, EP0377674, EP0272492, EP0257824, EP0257824, EP0257824, CN104203290, CN102343122, AU760342, AU2013217602,

Abstract:
Source: US4427111A An integral alcohol preparation **device** or like type of **fluid** applying **device** includes an absorbent material or pad for containing alcohol or other **fluid**, a **fluid** impermeable material, for example of metal foil **lined** with plastic, as a selectively openable **fluid** tight chamber for the pad and **fluid** contained therein, and the pad and **fluid** impermeable material being attached as a substantially integral assembly. Being so attached, a method of using such a **fluid** applying **device**,

then, may include the steps of manipulating the **fluid** impermeable material to open the chamber and to expose the pad and **fluid** contained therein without breaching the integrity of the several parts individually or collectively, and applying the **fluid** from the pad to an external surface. Further, a method is disclosed for making an integral **fluid** applying **device**. An alternate embodiment of **fluid** applying **device** includes a **fluid** permeable material and located therein a breakable **fluid** tight container containing the **fluid**.



39) Family number: 3368559 (US4432754A)

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Title: **Apparatus** for parenteral infusion of **fluid** containing beneficial agent

Priority: US19820381402 19820524 US19830547110 19831031 US19870014910 19870213 US19830547427 19831031 US19880245247 19880916

Family:

Publication number	Publication date	Application number	Application date
US4432754 A	19840221	US19820381402	19820524
US4515585 A	19850507	US19830547427	19831031
US4664650 A	19870512	US19830547110	19831031
US4908019 A	19900313	US19880245247	19880916

Probable Assignee: ALZA A CORP OF CA CORP

Assignee(s):(std)**:** ALZA CORP

Assignee(s): ALZA A CORP OF CA CORP

Inventor(s):(std)**:** THEEUWES FELIX ; URQUHART JOHN

International class (IPC 8-9): A61M5/14 (Advanced/Invention); A61M5/145 (Advanced/Non-invention); A61M5/14 (Core/Invention); A61M5/145 (Core/Non-invention)

International class (IPC 1-7): A61M5/00 A61M5/14 A61M5/16 G01L11/00

CPC: A61M5/1407 A61M2005/14513

European class: A61M5/14B K61M5/145A4

US class: 604/518 604/56 604/80 604/85

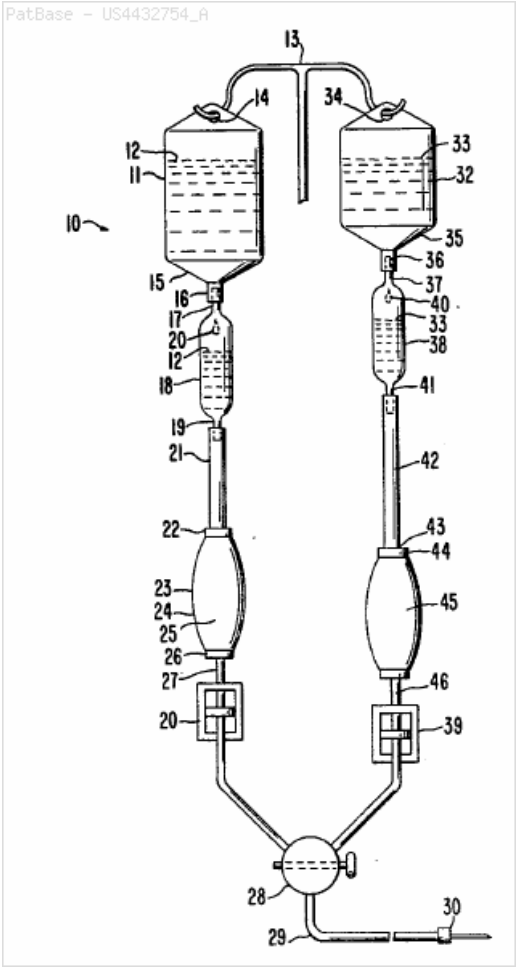
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Cited documents: US911523 A, US4465471 A, US4325368 A, US4323457 A, US4321117 A, US4320759 A, US4256105 A, US4256104 A, US4236517 A, US4233973 A, US4219022 A, US4217894 A, US4203439 A, US4200095 A, US4177256 A, US4116646 A, US4105029 A, US4061141 A, US3995631 A, US3993073 A, US3993072 A, US3993066 A, US3976068 A, US3948254 A, US3941126 A, US3921636 A, US3921635 A, US3854480 A, US3848603 A, US3847150 A, US3845770 A, US3797494 A, US3797485 A, US3760984 A, US3756390 A, US3756237 A, US3332114 A, US3305446 A, US3001525 A, US2954028 A, US2849256 A, US2690179 A, US2682268 A, US25129 A, US2254994 A, US1654745 A, GB982107 A, CH497181 A,

Forward Citations: WO9848865, WO9848865, WO9111210, WO8805318, WO8707158, USRE36871, US9504783, US8814829, US8808231, US8591456, US8226627, US8062528, US8034030, US8034029, US8022375, US7976515, US7914510, US7846332, US7815604, US7708730, US7641851, US7425209, US7358505, US7074216, US6981967, US6890328, US6875203, US6852103, US6610040, US6582415, US6159192, US6113583, US6090092, US6090091, US6071270, US6063068, US6022339, US6019750, US5989237, US5916201, US5910135, US5540668, US5505707, US5490848, US5484431, US5464392, US5322500, US5304126, US5250028, US5104390, US5100380, US5074844, US5030203, US5024657, US4985016, US4936829, US4832690, US4831018, US4828545, US4696671, US2012310082, US2010300969, US2010160859, US2010140515, US2008300570, US2008300483, US2008091150, US2006271022, US2006271021, US2006141773, US2006106367, US2005137566, US2005135965, US2005133729, US2004241041, US2004199139, US2003040722, US2002123736, EP0805694, EP0162531, AU736215, AU2002259324,

Abstract:
Source: US4432754A A parenteral delivery system is disclosed for administering a beneficial agent to a recipient. The system comprises (a) a primary container of a **medical** **fluid**; (b) a primary drip chamber in **fluid** communication with the primary container; (c) a primary formulation chamber in **fluid** communication with the primary drip chamber and housing an agent dispensing **device** or a beneficial agent; (d) a secondary container of a **medical** **fluid**; (e) a secondary drip chamber in **fluid** communication with the secondary container; (f) a secondary formulation chamber in **fluid** communication with the secondary drip chamber and housing an agent dispensing **device** or a beneficial agent; and (g) a common tubing in communication with the primary formulation chamber and the secondary formulation chamber for communicating the system with the recipient.

PatBase - US4432754_A



40) Family number: 29253602 (US4628928A)

Title: Robotic implantable **medical** **device** and/or component restoration system

Priority: CA19830434139 19830808 US19820406197 19820809 US19840684841 19841221 US19860923487 19861027

Family:

Publication number	Publication date	Application number	Application date
CA1211795 A1	19860923	CA19830434139	19830808
DE3378354 D1	19881208	DE19833378354	19830808
EP0102548 A2	19840314	EP19830107808	19830808
EP0102548 A3	19851121	EP19830107808	19830808
EP0102548 B1	19881102	EP19830107808	19830808
JP1706512 C3	19921027	JP19830145599	19830809
JP3072310 B4	19911118	JP19830145599	19830809
JP59046957 A2	19840316	JP19830145599	19830809
US4628928 A	19861216	US19840684841	19841221
US4771772 A	19880920	US19860923487	19861027

Probable Assignee: LOWELL D JAMES

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

Assignee(s): LOWELL D JAMES ; LOWELL DEWITT J ; MEDETORONITSUKU INC

Inventor(s):(std)**:** DEWITT JAMES L ; DEWITT JAMES LOWELL ; DOUUITSUTO JIEIMUZU ROOUERU ; LOWELL DEWITT J

Inventor(s): DOITSUTO JEIMUZU ROOERU

Agent(s): SMART AND BIGGAR

Designated states: DE FR GB NL

International class (IPC 8-9): A61B5/00 A61F2/02 A61F2/04 A61L27/00 A61M1/36 A61M25/00 A61M5/00 A61M5/142 A61N1/08 A61N1/375 (Advanced/Invention);
A61B5/00 (Advanced/Non-invention);
A61F2/02 A61F2/04 A61L27/00 A61M1/36 A61M25/00 A61M5/00 A61M5/142 A61N1/08 A61N1/372 (Core/Invention);
A61B5/00 (Core/Non-invention)

International class (IPC 1-7): A61B17/00 A61B5/00 A61F1/00 A61F2/02 A61M1/02 A61M1/03 A61M1/36 A61M25/00 A61M37/00 A61M5/14 A61N1/08 A61N1/36

CPC: A61B5/0002 A61B5/14532 A61F2250/0002 A61M5/14276 A61M25/00 A61M2025/0019 A61N1/375

European class: A61M25/00 A61M5/142P10 A61N1/375 K61B5/00B K61B5/145G K61F250/00D2 K61M25/00K

US class: 128/303R 600/486 600/488 604/151 604/266 604/267 604/892.1 606/1 607/36

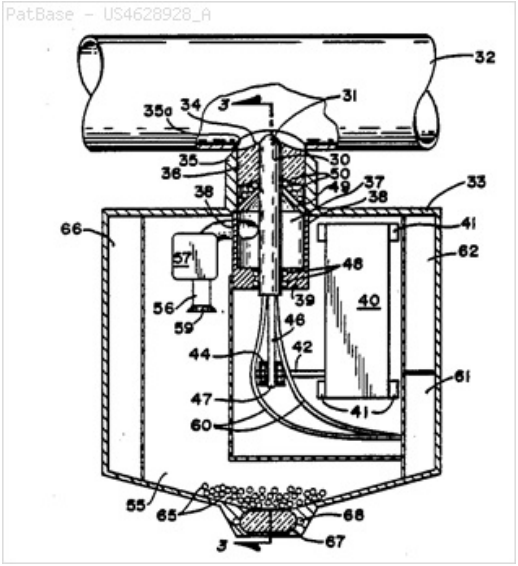
Classification Explorer

Cited documents: US4628928 A, US4550748 A, US4540411 A, US4509947 A, US4458877 A, US4444198 A, US4424833 A, US4407296 A, US4375170 A, US4360019 A, US4359054 A, US4341224 A, US4316115 A, US4278083 A, US4267835 A, US4228802 A, US4191181 A, US4183010 A, US4146029 A, US4125019 A, US4013074 A, US4003379 A, US3958573 A, US3923060 A, US3813938 A, US3798474 A, US3709211 A, US3581733 A, US3542031 A, US3479873 A, US3453546 A, US3409031 A, US2844351 A, US2804075 A, US2328199 A, SU602195 T, JP53029753 A2, FR2420853 A1,

Forward Citations: WO9309823, WO07051563, WO03057026, WO03055391, US9801527, US9789290, US9731084, US9694165, US9668690, US9662240, US9655724, US9597159, US9526649, US9517152, US9504785, US9457172, US9408530, US9370656, US9259342, US9220917, US9220837, US9211377, US9198563, US9175611, US9173837, US9125604, US9072907, US9060771, US9056167, US9028546, US9011329, US8986253, US8961458, US8961448, US8951355, US8936629, US8934976, US8926603, US8926561, US8874215, US8840541, US8827979, US8821793, US8764627, US8758323, US8734318, US8715181, US8702662, US8696745, US8694092, US8678997, US8660642, US8650937, US8636809, US8622991, US8602966, US8600510, US8556796, US8545384, US8512219, US8509894, US8506550, US8465466, US8452407, US8448824, US8409133, US8408421, US8388759, US8377077, US8372032, US8364269, US8361056, US8361014, US8361013, US8353896, US8337482, US8323263, US8313423, US8298184, US8292808, US8290594, US8287495, US8287444, US8246752, US8239027, US8190261, US8187851, US8180436, US8160680, US8147543, US8145295, US8137927, US8126558, US8096939, US8096938, US8092549, US8048233, US8032223, US8024036, US8019422, US8019413, US8000784, US7998060, US7979127, US7974678, US7951243, US7931582, US7922693, US7879023, US7871402, US7867217, US7857767, US7854728, US7850676, US7756582, US7747322, US7736309, US7702394, US7689284, US7643887, US7616996, US7590452, US7568375, US7525298, US7514038, US7509175, US7509174, US7483754, US7435569, US7371215, US7323142, US7192766, US7120498, US7120498, US7107100, US7076305, US7025760, US7020531, US7018336, US7016735, US6915147, US6809507, US6671554, US6535764, US6524256, US6503224, US6296635, US6245013, US6200264, US6154668, US6142938, US6141574, US6128520, US6119029, US6115622, US6077223, US6014578, US5960443, US5954692, US5918110, US5690691, US5571110, US5403319, US5382230, US5236432, US5188607, US5154717, US5120313, US4771772, US2015157836, US2013197297, US2011208220, US2011203923, US2011152883, US2011046660, US2011040286, US2011040285, US2010324591, US2010318117, US2010318116, US2010312164, US2010087706, US2009299434, US2009264833, US2009203979, US2009030297, US2009018605, US2008234631, US2008065169, US2008050281, US2007233019, US2007026275, US2006264988, US2006116735, US2006111753, US2006079858, US2006069414, US2006036293, US2005236277, US2005214741, US2005056539, US2005006807, US2004259270, US2004243195, US2004242995, US2004223875, US2004137547, US2004092956, US2004064133, US2003167025, US2003164304, US2003125613, US2003078560, US2003077772, US2003049166, US2002165589, EP2926847, EP2497509, EP2497508, EP2441486, EP2417991, EP2210632, EP0344895, EP0243854, EP0205737, DE112012001009, AU2006310807,

Abstract:
Source: US4628928A In combination with a **device** adapted for at least partial implantation in a living body to perform a function with respect to that body such as introducing a material into the body, relieving the body of a material, monitoring a condition within the body, or introducing electrical stimulus into the body, servicing **apparatus** is provided in association with the **device** for maintaining the **device** in effective operating condition. The **device** and servicing **apparatus** may be arranged in a single housing such that a portion of the **device** extends from the housing into operable position in the body, in separate but operably **connected** housings, or the servicing **apparatus** may be split between the **device** and a separate housing. The actual servicing of the **device** may be done within a service housing where the portion of the **device** to be serviced is drawn into the service housing and mechanically or chemically serviced, the servicing instrumentality may be moved from a service housing to the **device** to be serviced when servicing is necessary, or a portion of the servicing instrumentality may be built in or permanently positioned with respect to the **device** and operated by the remainder of the servicing **apparatus** located in a common housing with the **device** or in a separate housing. Circuiting is preferably provided to initiate and control the servicing operation.

PatBase - US4628928_A



41) Family number: 9991974 (US4571749A)

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Title: MANUALLY ACTUATED HYDRAULIC SPHINCTER

Priority: CA19830437119 19830920 US19820421441 19820921 US19850770448 19850829 US19860831950 19860224 WO1983US01434 19830921

Family:

Publication number	Publication date	Application number	Application date
CA1236251 A1	19880510	CA19830437119	19830920
DE3390208 T	19860206	DE19833390208T	19830921
DE3390208 T1	19860206	DE19833390208T	19830921
EP0119265 A1	19840926	EP19830903265	19830921
EP0119265 A4	19861106	EP19830903265	19830921
EP0119265 B1	19900228	EP19830903265	19830921
EP0314258 A2	19890503	EP19880202700	19830921
EP0314258 A3	19891004	EP19880202700	19830921
ES535151 A0	19851101	ES19840535151	19840814
ES8601676 A1	19851101	ES19840535151	19840814
GB2137505 A1	19841010	GB19840007146	19830921
GB2137505 B2	19870610	GB19840007146	19830921
GB2171911 A1	19860910	GB19860004412	19860221
GB2171911 B2	19870617	GB19860004412	19860221
GB8604412 A0	19860326	GB19860004412	19860221
IT1166961 A	19870506	IT19830022939	19830921
IT8322939 A0	19830921	IT19830022939	19830921
JP59501779 T2	19841025	JP19830503305T	19830921
SE456317 B	19880926	SE19840002672	19840518
SE456317 C	19890126	SE19840002672	19840518
SE8402672 A	19840518	SE19840002672	19840518
SE8402672 A0	19840518	SE19840002672	19840518
SE8402672 L	19840518	SE19840002672	19840518
US4571749 A	19860225	US19820421441	19820921
US4731083 A	19880315	US19850770448	19850829
US4784660 A	19881115	US19860831950	19860224
WO8401098 A1	19840329	WO1983US01434	19830921

Probable Assignee: JOHNS HOPKINS UNIV BALTIMORE MD A CORP OF

Assignee(s):(std)**:** JOHNS HOPKINS UNIV APPLI ; UNIV JOHNS HOPKINS ; UNIV JOHNS HOPKINS PHYS LAB

Assignee(s): THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY ; THE JOHN HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY ; THE JOHNS HOPKINS UNIVERSITY ; THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABOR ; FISCHELL ROBERT E ; JOHN HOPKINS UNIV ; JOHN HOPKINS UNIV APPLIED PHYSICS LABORATORY ; JOHNS HOPKINS UNIV ; THE JOHN HOPKINS UNIVERSITY ; THE JOHN HOPKINS UNIVERSITY APPLIED PHYSICS LABORA ; JOHNS HOPKINS UNIVERSITY ; JOHNS HOPKINS UNIV BALTIMORE MD A CORP OF ; JOHNS HOPKINS UNIVERSITY THE ; JOHNS HOPKINS UNIV APPLIED PHYSICS LABORATORY ; JOHNS HOPKINS UNIV THE

Inventor(s):(std)**:** FISCHELL ROBERT E ; FISCHELL R E

Inventor(s): ROBERT E FISCHELL ; R E FISCHELL

Agent(s): RICHES MCKENZIE AND HERBERT LLP; AWAPATENT AB

Designated states: DE FR GB JP SE

International class (IPC 8-9): A61F5/48 A61B19/00 A61F2/00 A61F2/48 A61F5/00 (Advanced/Invention); A61B19/00 A61F2/00 A61F2/48 A61F5/00 (Core/Invention)

International class (IPC 1-7): A61B19/00 A61F1/00 A61F2/00 A61F2/02 A61F2/04 A61F2/48 A61F5/00 A61F5/48

CPC: Y10S128/25 A61F2/004 A61M39/0208 A61M2039/0217 A61F2/0004 A61F2/50 A61M25/01

European class: A61F2/00B A61F2/00B6B2 A61F2/50 A61M25/01 K61M39/02B K61M39/02B2S1

US class: 128/1R 128/748 128/79 128/DIG.25 600/31 600/561 623/14 623/14.13 623/23.66

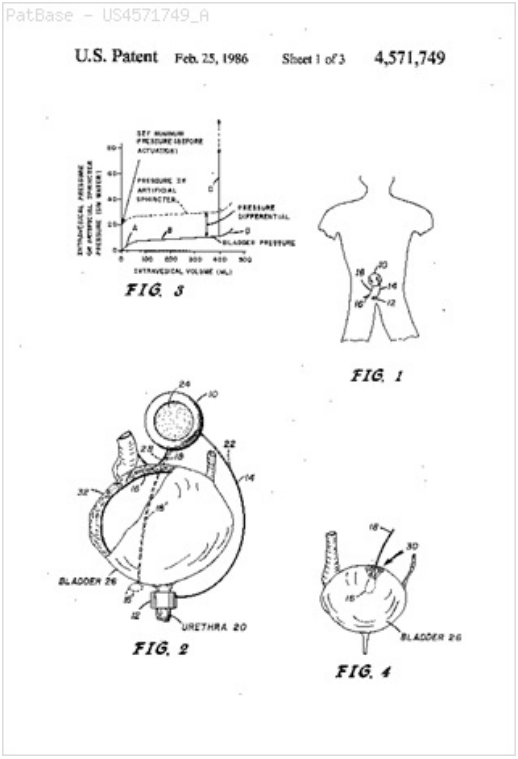
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Cited documents: US4571749 A, US4557722 A, US4551128 A, US4549531 A, US4464168 A, US4433440 A, US4408597 A, US4256094 A, US4256093 A, US4222377 A, US4106510 A, US4019499 A, US3854469 A, US3827439 A, US3815576 A, US3553967 A, JPS51132690, JP51132690 A2,

Forward Citations: WO9930636, WO9601597, WO9601597, WO14205271, WO09048375, WO09035582, WO03043534, WO03002192, WO02102291, WO0019940, USD682416, USD676955, US9895523, US9889298, US9833603, US9782583, US9737660, US9731112, US9717895, US9713704, US9707339, US9682186, US9642986, US9610432, US9603993, US9603992, US9579496, US9539433, US9533133, US9517329, US9474888, US9427573, US9421352, US9308088, US9265912, US9248268, US9220887, US9079004, US8998860, US8939947, US8932271, US8926573, US8870742, US8852160, US8805478, US8774942, US8715244, US8641742, US8641688, US8641676, US8608713, US8603052, US8585663, US8545460, US8475417, US8382724, US8382723, US8380312, US8340786, US8277426, US8257325, US8216561, US8202316, US8202259, US8195296, US8177762, US8160710, US8152710, US8100819, US8083663, US8066629, US8029482, US8025639, US8016745, US8016744, US7959615, US7947022, US7935361, US7927270, US7909754, US7828716, US7790194, US7785302, US7780958, US7775966, US7775215, US7771346, US7699770, US7678146, US7658196, US7613516, US7582053, US7566297, US7481762, US7395822, US7387603, US7364540, US7217237, US7128707, US7066901, US7014606, US7011621, US6921360, US6896651, US6862480, US6749556, US6712772, US6689046, US6659937, US6652449, US6464999, US6432040, US6432038, US6354991, US6334064, US6258060, US6183520, US6074341, US6063119, US6013102, US6010453, US5989288, US5788631, US5782916, US5762599, US5755807, US5704893, US5562598, US5526809, US5456251, US5433216, US5415165, US5383929, US5197982, US5097848, US5078676, US5012822, US4994020, US4969474, US4955905, US4955861, US4784660, US4727887, US4721509, US4634443, US2015032051, US2012191139, US2012053562, US2011160793, US2011130626, US2011124957, US2011118677, US2011077606, US2011009828, US2010268165, US2010261951, US2010256757, US2010217340, US2010204794, US2010121283, US2010076254, US2010049289, US2010016652, US2009259315, US2009227862, US2009216323, US2009204072, US2009157091, US2009156928, US2009118683, US2009043356, US2009036946, US2009024024, US2009012592, US2008250340, US2008242918, US2008156334, US2008108949, US2008009914, US2007265675, US2007260288, US2007233017, US2007020226, US2006281964, US2006264898,

US2006241339, US2006200065, US2006184141, US2006047180, US2005261746, US2005256367, US2005256364, US2005240144, US2005216069, US2005175704, US2005113881, US2005055063, US2005049648, US2005027161, US2005004425, US2004242956, US2004147886, US2004015045, US2003225311, US2003082884, US2003077244, US2003018365, US2002183680, US2002156342, US2002150550, US2002064512, ITBS20100191, FR2653993, EP2997890, EP2805689, EP2272881, EP2123238, EP1792583, EP1759665, EP1598030, EP1598030, EP1587465, EP1587464, EP1586283, EP1584303, EP1584303, EP1582176, EP1582175, EP1513466, EP1287048, EP1253887, EP1202673, EP0426545, EP0202815, EP0196837, DE19511998, DE10156558,

Abstract:
Source: US4571749A An implantable hydraulic urinary sphincter system is disclosed for maintaining continence in those patients unable to control or stop inadvertent urinary flow. The invented **apparatus** generally consists of an artificial urinary sphincter and a control means for obtaining continence while causing the artificial sphincter to apply minimal pressure to the urethra for all conditions of the bladder. The invented **apparatus**: (1) automatically causes sphincter **fluid** pressure to increase or decrease with sensed bladder and/or abdominal pressure, and (2) is manually actuated by a patient when he or she desires to urinate. The invented **apparatus** can be filled with **fluid**, or the **fluid** pressure can be reset, after implantation without necessitating a surgical procedure.



42) Family number: 2237721 (US5070014A)

Title: Stabilization of specimens for microbial analysis

Priority: CA19830437714 19830927 CA19860501012 19860203 US19830525164 19830823 US19830525164 19830822 US19820431776 19820930 US19850772954 19850904 US19880269490 19881109 US19890374310 19890630

Family:

Publication number	Publication date	Application number	Application date
AU198319599 A1	19840405	AU19830019599	19830927
AU198662192 A1	19870305	AU19860062192	19860903
AU572796 B2	19880519	AU19830019599	19830927
AU598747 B2	19900705	AU19860062192	19860903
CA1264274 A1	19900109	CA19830437714	19830927
CA1264275 A1	19900109	CA19860501012	19860203
DE3378479 D1	19881222	DE19833378479	19830926
DE3378479 T2	19881222	DE19833378479T	19830926
DK424386 A	19870305	DK19860004243	19860904
DK424386 A0	19860904	DK19860004243	19860904
DK444683 A	19840331	DK19830004446	19830928
DK444683 A0	19830928	DK19830004446	19830928
EP0107070 A1	19840502	EP19830109554	19830926
EP0107070 B1	19881117	EP19830109554	19830926
GR79392 B	19841022	GR19830172569	19830928
IE56078 B	19910410	IE19830002158	19830914
IE832158 L	19840330	IE19830002158	19830914
JP5047200 B4	19930716	JP19830180975	19830930
JP59102399 A2	19840613	JP19830180975	19830930
NZ205779 A	19880108	NZ19830205779	19830928
NZ217441 A	19881028	NZ19860217441	19860903
US5070014 A	19911203	US19890374310	19890630
US5108927 A	19920428	US19880269490	19881109

Probable Assignee: DORN GORDON L

Assignee(s):(std)**:** WADLEY J K AND SUSIE L RESEARCH ; WADLEY RES INST AND BLOOD BANK ; JIK AND DUSIE L WAELLEY RES IN ; WADLEY SUSIE RES INST ; WADLEY TECHNOLOGIES INC ; WADORI TEKUNARAJIZU INC ; WALDLEY RES INST AND BLOOD BANK

Assignee(s): WADLEY TECHNOLOGIES INC 9000 HARRY HINES BLVD DALL ; J K AND SUSIE L WADLEY RESEARCH INSTITUTE AND BLOOD BANK ; JIEI KEI ANDO SUUZUIERU WADORI RESEARCH INST ANDO PURADO BANKU ; DORN GORDON L ; DORN GORDON LEE ; JIEI KEI ANDO SUUZUIERU WADORI RESEARCH INST ANDO ; WADLEY J K AND SUSIE L RESEARCH INSTITUTE AND BL ; WADLEY RESEARCH INSTITUTE AND BLOOD BANK J K AND ; JK AND SUSIE L WADLEY RESEARCH INST AND BLOOD BANK ; WADLEY J K AND SUSIE L RESEARCH INSTITUTE AND BLOOD BANK ; JIK AND DUSIE L WAELLEY RESEARCH INSTITUTE AND BLOOD BANK ; WADLEY JK AND SUSIE L RESEARCH INST AND BLOOD BANK

Inventor(s):(std)**:** DORN CORDON LEE ; DORN GORDON LEE ; DORN GORDON L ; DORN G L ; GOODON RII DOON ; LEE DORN GORDON

Inventor(s): GORDON LEE DORN ; GORDON L DORN ; CORDON LEE DORN

Agent(s): FB RICE; FB RICE PTY LTD; KIRBY EADES GALE BAKER

Designated states: BE CH DE FR GB IT LI LU NL

International class (IPC 8-9): A61B5/145 A61B5/15 B65D81/00 C12M1/24 C12M1/30 C12M1/34 C12N1/00 C12N1/04 C12Q1/04 C12Q1/18 C12Q1/24 (Advanced/Invention);
A61B5/145 (Core/Invention);
C12Q (Subclass/Invention)

International class (IPC 1-7): A61B5/14 B65D81/00 C12M1/24 C12M1/26 C12M1/28 C12M1/30 C12M1/34 C12N1/00 C12N1/04 C12Q1/00 C12Q1/04 C12Q1/10 C12Q1/14 C12Q1/24 C12Q1/34 G01N15/00

CPC: C12Q1/18 C12Q1/04 G01N2333/24 G01N2333/31 C12M33/04 C12N1/04

European class: C12M33/04 C12N1/04 C12Q1/04 C12Q1/18 S01N333/24 S01N333/31 S01N400/98

US class: 435/243 435/294 435/295 435/296 435/307.1 435/309.1 435/34 600/573 600/578

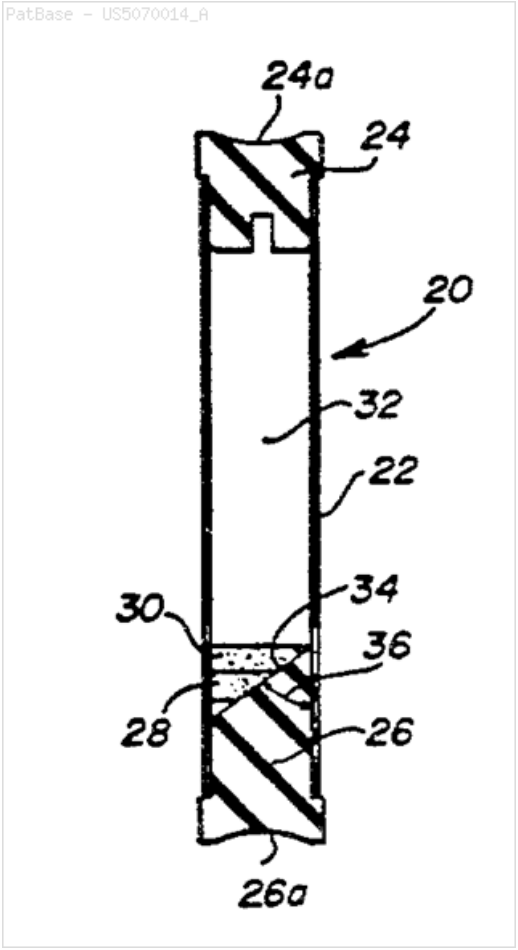
Classification Explorer

Cited documents: US4883466 A, US4768653 A, US4758323 A, US4726950 A, US4720460 A, US4699614 A, US4642102 A, US4617941 A, US4529702 A, US4391887 A, US4370987 A, US4340679 A, US4336880 A, US4258032 A, US4248634 A, US4246898 A, US4234683 A, US4212948 A, US4192320 A, US4145308 A, US4145304 A, US4131512 A, US4105498 A, US4030978 A, US3941658 A, US3932222 A, US3930492 A, US3898132 A, US3875012 A, US3671399 A, EP0107070 A1, AU562681 B2, AU534128 B2, AU4361779 A1, AU2906184 A1,

Forward Citations: WO10087110, WO09152119, WO09039044, WO03012058, WO03012058, US9895494, US9872645, US9861306, US9855002, US9855001, US9808225, US9788775, US9788774, US9777045, US9775551, US9730624, US9707555, US9683256, US9598462, US9481912, US9416416, US9388220, US9295417, US9212399, US9204864, US9155495, US9149576, US9128058, US9119578, US9113836, US9080204, US9060725, US9060724, US9045726, US9041541, US9033898, US9022951, US9022950, US8975060, US8911962, US8876734, US8864684, US8821412, US8808202, US8669240, US8652782, US8647286, US8603770, US8535241, US8420346, US8415330, US8337418, US8293467, US8246552, US8231546, US8197420, US8062901, US7875021, US7316897, US7264776, US7115385, US6966894, US6712161, US5846487, US5545555, US5501960, US5070014, US2015065379, US2012041338, US2011105951, US2010129814, US2009306545, US2009306544, US2009301480, US2009233309, US2009117660, US2009076471, US2009076414, US2008183122, US2008145933, US2007122872, US2007092401, US2006246598, US2005178054, US2005131314, US2005130252, US2005009200, US2003148499, JP5600603, JP2016500008, JP2010087110, FR2921669, EP0484579, EP0430151, AU629412, AU2008302455,

Abstract:
Source: US5070014A The improvement of specimen quality for microbial analysis is addressed by the present invention which discloses a chemical composition for use in a method and **apparatus** for transporting a specimen suspected to contain microorganisms of interest to a laboratory for analysis and improved methods of analysis. An improved method and **apparatus** for detecting microbial pathogens in a sample body **fluid** is disclosed which comprises by mixing the sample body **fluid** with an antimicrobial factor deactivating agent and improver of microbial quantitative integrity within the sample body **fluid** after it has

been collected and before the microbial pathogens are analyzed. An article useful in the concentration of microbial pathogens from a sample **fluid** and useful in practicing the method of the subject invention is further disclosed. The method and **apparatus** can be utilized on all types of aqueous specimens and specimens which may be extracted in aqueous solution for analysis of microorganisms therein.



43) Family number: 45174653 (US4535058A)

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Title: CHARACTERIZATION OF ONCOGENES AND ASSAYS BASED THEREON

Priority:

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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: SIEMENS HEALTHCARE DIAGNOSTICS INC

Assignee(s):(std)**:** BAYER AG ; MARKS PAULA J ; CARNEY WALTER P ; MARKS PAULA JEAN ; CARNEY WALTER PATRICK ; MASSACHUSETTS INST TECHNOLOGY ; MAZZARA GAIL P ; MORGAN JONATHAN H ; MCKENZIE SARA J ; MAZZARA GAIL PATRICIA ; MCKENZIE SARA JANE ; MORGAN JONATHAN HART ; WHITEHEAD BIOMEDICAL INST ; WEINBERG ROBERT A ; PETIT DEBRA A ; WEINBERG ROBERT ALLAN ; PETIT DEBRA ANN ; ONCOGENE SCIENCE INC ; APPLIDE BIOTECHNOLOGY INC ; APPLIED BIOTECHNOLOGY INC

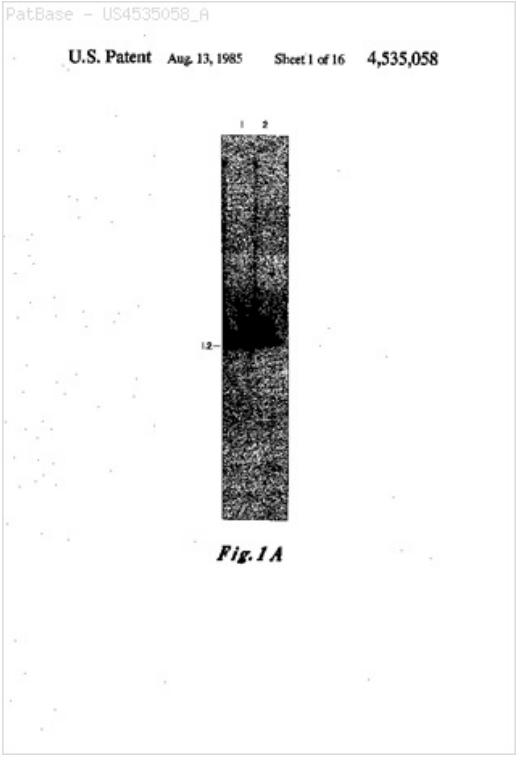
Assignee(s): APPLIED BIOTECHNOLOGY INC CAMBRIDGE MASS US ; MASSACHUSETTS INST ; MASSACHUSETTS INST OF TECHNOLOGY A CORPOF MA ; MASSACHUSETTS INST OF TECHNOLOGY CAMBRIDGE MASS US ; ONCOGENETICS PARTNERS ; MASSACHUSETTS INST OF TECHNOLOGY CAMBRIDGE MASS ; WHITEHEAD INST FOR BIOMEDICAL RESEARCH ; WHITEHEAD INST ; OSI PHARMACEUTICALS INC ; SIEMENS HEALTHCARE DIAGNOSTICS INC ; WHITEHEAD INST FOR BIOMEDICAL RESEARCH A CORP OF D ; WHITEHEAD INST FOR BIOMEDICAL RESEARCH CAMBRIDGE MASS US ; WHITEHEAD INST FOR BIOMEDICAL RESEARCH A CORP OF DE ; WHITEHEAD INST FOR BIOMEDICAL RESEARCH CAMBRIDGE MASS ; ONCOGENE SCIENCE INC UNIONDALE N Y US ; BAYER CORP ; MASACHUUSETSUTSU INST OBU TEKUNOROJII ; E I DU PONT DE NEMOURS AND CO ; BAYER HEALTHCARE LLC ; MASSACHUSETTS INST OF TECHNOLOGY

Inventor(s):(std)**:** BARGMANN CORNELIA I ; BRADLEY M ; BRADLEY SCOTT M ; CARNEY WALTER P ; CARNEY WALTER PATRICK ; MACKENZIE SALA J ; MARKS J ; MARKS PAULA ; MARKS PAULA J ; MARKS PAULA JEAN ; MAZZARA GAIL ; MAZZARA GAIL P ; MAZZARA GAIL PATRICIA ; MAZZARA P ; MCKENZIE J ; MCKENZIE SARA ; MCKENZIE SARA J ; MCKENZIE SARA JANE ; MORGAN H ; MORGAN JOHNATHAN H ;

	MORGAN JONATHAN ; MORGAN JONATHAN H ; PETIT DEBRA A ; PETIT DEBRA ANN ; TABIN CLIFFORD J ; TABIN CLIFFORD JAMES ; MORGAN JONATHAN HART ; TABIN JAMES ; WEINBERG A ; WEINBERG ROBERT ; WEINBERG ROBERT A ; WEINBERG ROBERT ALLAN
Inventor(s):	TABIN JAMES CLIFFORD CAMBRIDGE MA 02139 US ; UEINBAAGU ROBAATO EI ; PAULA J MARKS ; TABIN CLIFFORD JAMES CAMBRIDGE MA 02139 US ; TABIN CLIFFORD JAMES CAMBRIDGE MASSACHUSETTS 02139 US ; ROBERT A WEINBERG ; SARA J MCKENZIE ; TAABIN KURIFUOODO JEEMUZU ; MORGAN JONATHAN H FRANKLIN MA 02038 US ; MORGAN H JONATHAN FRANKLIN MA 02038 US ; MCKENZIE SARA J LYNN MA 01902 US ; MCKENZIE J SARA LYNN MA 01902 US ; MAZZARA P GAIL WINCHESTER MA 02890 US ; MAZZARA GAIL P WINCHESTER MA 02890 US ; MARKS PAULA J BROOKLINE MA 02146 US ; MARKS J PAULA BROOKLINE MA 02146 US ; GAIL P MAZZARA ; JONATHAN H MORGAN ; CARNEY WALTER P NORTH ANDOVER MA 01845 US ; BURATSUDOREI SUKOTSUTO EMU
Agent(s):	OGILVY RENAULT LLP SENCRL SRL; GOWLING LAFLEUR HENDERSON LLP; MASUI CHUJI; SHAMOTO ICHIO; KOBAYASHI YASUSHI; TOMITA HIROYUKI; CHIBA AKIO; COOPER AND DUNHAM LLP; JOHN P
Designated states:	AT AU BE CH DE FR GB IT JP KR LI LU NL SE
International class (IPC 8-9):	A61K38/00 A61K39/00 A61K39/395 A61P35/00 C03C8/18 C07H21/04 C07K14/435 C07K14/71 C07K14/82 C07K16/00 C07K16/18 C07K16/30 C07K16/32 C07K19/00 C12N15/00 C12N15/02 C12N15/09 C12N15/12 C12N5/10 C12N5/18 C12P21/00 C12P21/02 C12P21/08 C12Q1/68 G01N33/50 G01N33/53 G01N33/531 G01N33/574 G01N33/577 H01B3/12 H01G4/008 H01G4/232 (Advanced/Invention); A61K38/00 A61K39/395 A61P35/00 C07K14/435 C07K16/00 C07K19/00 C12N15/02 C12N15/09 C12N5/10 C12P21/00 C12P21/02 C12P21/08 C12R1/91 G01N33/53 G01N33/574 G01N33/577 (Advanced/Non-invention); A61K39/00 A61K39/395 A61P35/00 C03C8/00 C07H21/00 C07K14/435 C07K14/82 C07K16/00 C07K16/18 C07K19/00 C12N15/00 C12N15/02 C12N15/09 C12N5/10 C12N5/18 C12P21/00 C12P21/02 C12P21/08 C12Q1/68 G01N33/50 G01N33/53 G01N33/531 G01N33/574 G01N33/577 H01B3/12 H01G4/008 H01G4/228 (Core/Invention); A61K38/00 (Core/Non-invention)
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Abstract:
Source: US4535058A Experiments designed to define the differences between an oncogene isolated from human bladder cancer cells and its corresponding proto-oncogene are described herein. By a series of in vitro recombinations, the difference was initially isolated to a 350 kb segment of DNA; sequencing defined the difference as a change in the Gly12 codon causing the p21 protein of the oncogene to contain valine at a location where the p21 protein of the proto-oncogene contained glycine. Assays for detecting carcinogenesis based on such differences are also described. In one type of assay, a restriction enzyme specific for either the altered or non-altered DNA segment of the genes are employed to detect carcinogenesis. In another type of assay, seralogical reagents, such as antibody specific for either p21 protein expressed from the proto-oncogene or oncogene, or a common site therein, are described.



44) Family number: 30419145 (US5034135A)

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Title: BLOOD FRACTIONATION SYSTEM AND METHOD

Priority:

AU19830022341 19831213
EP19880106191 19831213
JP19830233797 19831213
US19920985360 19921202
US19820449470 19821213
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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: ESTATE OF WILLIAM F MCLAUGHLIN

Assignee(s):(std)**:** ESTATE OF WILLIAM F MCLAUGHLIN ; MCLAUGHLIN W ; MCLAUGHLIN W F ; VEGA IND LTD ; UIRIAMU EFU MATSUKUROORIN ; WILLIAM F MCLAUGHLIN ; MCLAUGHLIN WILLIAM F

Assignee(s): MCLAUGHLIN WILLIAM FRANCIS ; VEGA INDUSTRIES LTD ; MCLAUGHLIN WILLIAM FRANCIS NEWPORT BEACH CALIF US ; MCLAUGHLIN WILLIAM FRANCIS NEWPORT BEACH CALIF ; MCLAUGHLIN WF ; FISCHEL HALBERT

Inventor(s):(std)**:** FISCHEL H ; FISCHEL HALBERT ; HARUBAATO FUITSUSHERU ; HARUBAATO FUITSUSHIERU ; JOHN PETER ROCHFORT ; MCLAUGHLIN WILLIAM F ; ROCHFORT J P ; ROCHFORT JOHN PETER ; WILLIAM F MCLAUGHLIN ; HALBERT FISCHEL

Inventor(s): FISCHEL HALBERT STATELINE NEVADA 89449 US ; FISCHEL HALBERT NEVADA 89449 US

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; PETER MAXWELL AND ASSOCIATES; SMART AND BIGGAR

Designated states: AT BE CH DE FR GB IT LI LU NL SE

International class (IPC 8-9):
A61K35/14 A61K35/16 A61M1/02 A61M1/22 A61M1/26 A61M1/30 A61M1/34 A61M1/36 B01D33/00 B01D61/14 B01D63/16 B04B11/02 B04B5/00 B04B5/02 B63B45/00 F21V11/08 F21V11/10 F21V11/18 G01N33/48 G02B27/18 G03B21/16 (Advanced/Invention);
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A61M1/16 (Core/Non-invention)

International class (IPC 1-7):
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European class:
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US class: 210/321.68 210/416.1 210/650 210/651 210/87 604/4 604/5.01 604/6.09

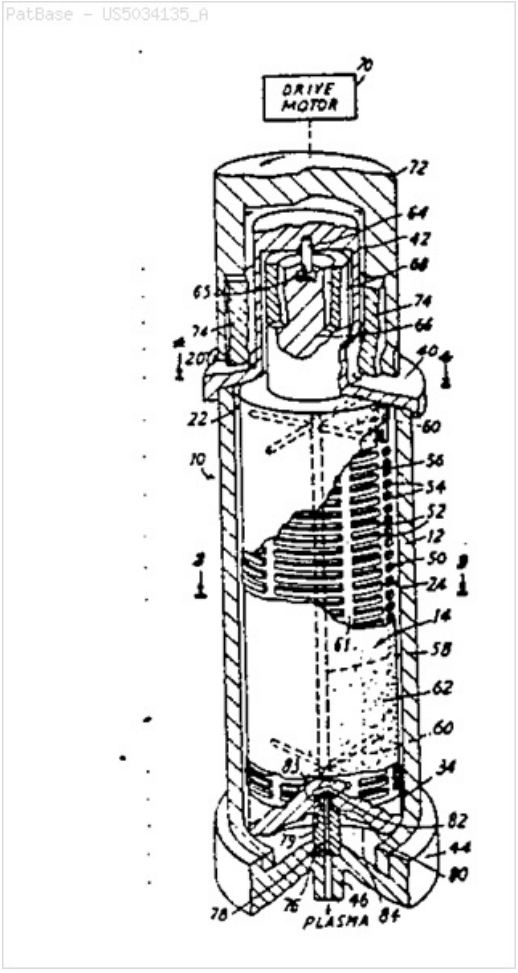
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Abstract:
Source: US5034135A A system for separating at least one constituent from a liquid suspension such as blood induces high velocity flow by viscous drag about the circumference of a spinner having a filtration membrane with pore size selected for the desired constituent. The high velocity circumferential flow is bounded by a spaced apart shear wall, with a spacing selected relative to the diameter of the spinner and its rotational velocity, also with respect to the viscosity of the suspension, to establish a flow within the shear gap, as substantial centrifugal forces are exerted upon the suspension. Under these conditions, filtrate in contact with the membrane is replenished, and filtrate passes through the membrane with minimal adverse effects from deposition and concentration polarization, and with high efficiency because of high shear levels that are maintained. The filtrate is collected within the interior of the spinner in a conduit system and passed to an outlet orifice.

PatBase - US5034135_A



45) Family number: 34574408 (US2002010437A)

Title: **MEDICAL** CONNECTOR

Priority:

AU19920022682 19920623	CA19840445725 19840120	US19830543248 19831019
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Family:

Publication number	Publication date	Application number	Application date
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US5954708 C1	20070731	US19980056974	19980408
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WO9303787 A1	19930304	WO1992US05260	19920623

Probable Assignee: ICU MEDICAL INC A CORP OF DELAWARE

Assignee(s):(std)**:** ICU MEDICAL INC ; LOPEZ GEORGE A ; JIYOOJI EI ROPETSU

Assignee(s): ICU MEDICAL INC SAN CLEMENTE CALIF US ; NATIONAL INSTITUTES OF HEALTH ; NATIONAL INSTITUTES OF HEALTH NIH US DEPT OF HEALT ; NATIONAL INSTITUTES OF HEALTH (NIH) US DEPT OF HEALTH AND HUMAN SERVICES (DHHS) US GOVERNMENT ; NATIONAL INSTITUTES OF HEALTH NIH US DEPT OF HEALTH AND HUMAN SERVICES DHHS US GOVERNMENT ; NATIONAL INST ; NATIONAL INSTITTUTES OF HEALTH ; ICU MEDICAL INC A OF CA CORP ; JOOJI EI ROPETSU ; ALPHA IND ; ALPHA IND INC ; ICU MEDICAL INC A CORP OF DELAWARE ; ICU MEDICAL INC A DELAWARE CORP ; LAUL VIRGIL R

Inventor(s):(std)**:** BAAJIRU AARU ROORU ; JIYOOJI EI ROPETSU ; LAUL VIRGIL R ; LOPEZ GEORGE ; LOPEZ GEORGE A

Inventor(s): JOOJI EI ROPETSU ; GEORGE A LOPEZ

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; RIDOUT AND MAYBEE LLP

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

International class (IPC 8-9): A61M25/18 A61M39/02 A61M39/04 A61M39/10 A61M39/14 A61M5/00 A61M5/14 (Advanced/Invention); A61M39/02 (Advanced/Non-invention); A61M39/00 A61M39/02 A61M5/00 (Core/Invention)

International class (IPC 1-7): A61M25/00 A61M31/00 A61M37/00 A61M39/02 A61M39/04 A61M39/10 A61M5/00 A61M5/14 A61M5/16

CPC: A61M2039/1083 Y10S604/905 A61M39/1011 A61M39/04 A61M39/14 A61M2039/042 A61M2039/1027 A61M2039/1033 A61M2039/1044 A61M2039/1072 A61M2205/195 A61M2205/197

European class: A61M39/04 A61M39/10B A61M39/14 K61M205/19C2 K61M205/19C4 K61M39/04A2 K61M39/10F K61M39/10G K61M39/10J K61M39/10V K61M39/10X

US class: 285/320 604/244 604/256 604/256P 604/283 604/284 604/411 604/49 604/500 604/51 604/518 604/529 604/533 604/535 604/537 604/539 604/56 604/86 604/905 604/905S

Classification Explorer

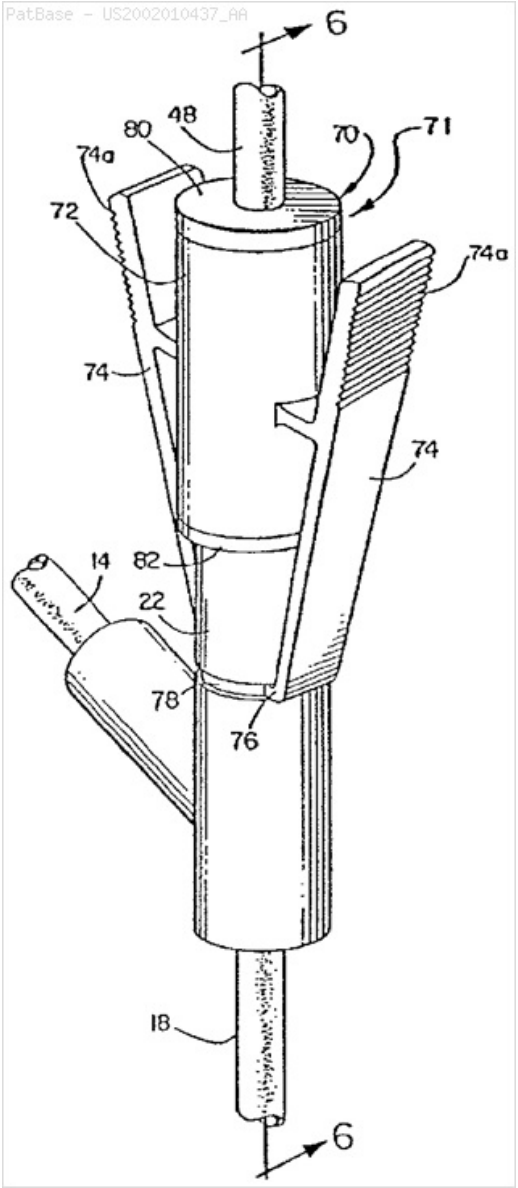
Cited documents: US5344414 A, US5290254 A, US5199947 A, US5195992 A, US5188620 A, US5171234 A, US5167648 A, US5158554 A, US5153489 A, US5122123 A, US5100394 A, US5069225 A, US4998921 A, US4998713 A, US4981469 A, US4964855 A, US4946445 A, US4932944 A, US4917668 A, US4846809 A, US4834716 A, US4810241 A, US4759756 A, US4752292 A, US4725267 A, US4673400 A, US4645494 A, US4617012 A, US4607868 A, US4564054 A, US4512766 A, US4511359 A, US4508367 A, US4457749 A, US4439193 A, US4432765 A, US4405312 A, US4405163 A, US4392851 A, US4362156 A, US4338933 A, US4334551 A, US4329987 A, US4328802 A, US4306705 A, US4296949 A, US4294249 A, US4257416 A, US4219912 A,

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Abstract:
Source: US2002010437A Disclosed is a connector for introducing medication into a patient in a safe, convenient way. It comprises a pair of plastic tubular members adapted to be manually pushed together to engage in a male-female relationship, and a locking mechanism that detachably secures the members together. The male member has a sealed entry port at its end, and the female member safely houses within it a needle which centrally pierces the seal of the port upon engagement of the members. Preferably, the locking mechanism provides a "click" sound when it locks the members together.


PatBase - US2002010437_AA
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46) Family number: 3086062 (US4719919A)

Title: IMPLANTABLE HYPERTHERMIA **DEVICE** AND SYSTEM

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Probable Assignee: MED INST

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Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; SMART AND BIGGAR; KIRBY EADES GALE BAKER

Designated states: AT AU BE CH DE DK ES FR GB GR IT JP LI LU NL SE

International class (IPC 8-9): A61B18/18 A61F7/00 A61F7/08 A61F7/12 A61M25/00 A61M36/12 A61M37/00 A61N1/08 A61N5/00 A61N5/04 A61N5/10 H02J5/00 (Advanced/Invention);
A61B17/00 A61F7/08 A61F7/12 A61N1/08 A61N5/10 H02J5/00 (Advanced/Non-invention);
A61B18/18 A61F7/00 A61F7/08 A61F7/12 A61M25/00 A61M36/00 A61N1/08 A61N5/00 A61N5/02 A61N5/10 H02J5/00 (Core/Invention);
A61B17/00 (Core/Non-invention)

International class (IPC 1-7): A61B17/36 A61B19/00 A61B5/4 A61B7/12 A61F7/00 A61F7/08 A61F7/12 A61M25/00 A61M37/00 A61N1/00 A61N1/08 A61N5/00 A61N5/04 A61N5/10 H05B1/02 H05B3/40

CPC: H02J7/025 H02J50/10 A61N5/1027 A61F7/12 A61B2017/00022 A61B2017/00084 A61F7/00 A61F2007/0093 A61F2007/126 A61N1/08 A61N5/1007 A61N2005/1011 A61N2005/1012 H02J5/005

European class: A61F7/00 A61F7/12 A61N1/08 A61N5/10B2 H02J5/00T K61B17/00C1 K61B17/00C1T K61F7/00P K61F7/12D K61N5/10B2N K61N5/10B2T K61N5/10B7

US class: 128/303.1 128/399 128/401 128/784 338/22R 338/28 604/51 604/890.1 604/892.1 606/13 606/130 606/27 606/28 606/31 607/110 607/113 607/99

Classification Explorer

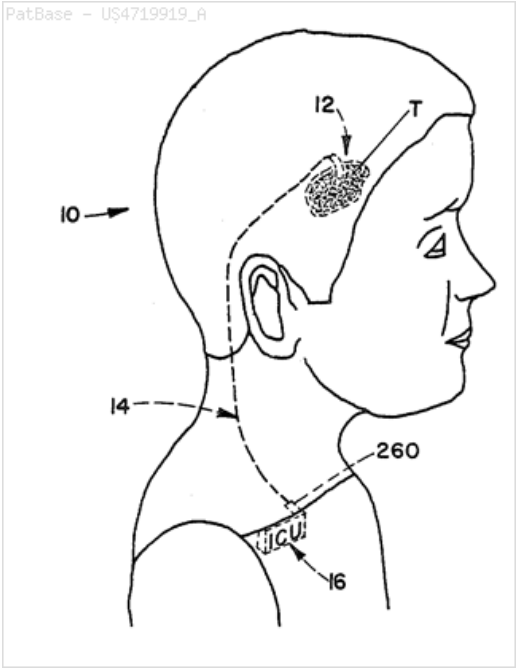
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Forward Citations: WO9934758, WO9915092, WO9843338, WO9308733, WO8903665, WO09049297, WO04087251, WO03090638, WO0195840, WO0038783, USRE46422, USRE46409, USRE44305, USRE43952, USRE43328, USRE42378, USRE42226, USRE42194, USRE40156, USD777338, USD750234, USD750233, USD750232, USD750231, USD750230, USD750229, USD749210, USD733873, USD658760, US9867721, US9861520, US9861421, US9844461, US9844460, US9844406, US9839466, US9827140, US9801678, US9789315, US9788882, US9775664, US9757087, US9750563, US9750559, US9737434, US9713489, US9693818, US9675424, US9675404, US9675403, US9669185, US9668639, US9662049, US9659374, US9655770, US9649220, US9649144, US9642514, US9597154, US9597147, US9575140, US9566185, US9555222, US9545523, US9539052, US9526556, US9513761, US9504530, US9495059, US9492313, US9474676, US9474565, US9452008, US9448681, US9408745, US9403029, US9393069, US9375345, US9364283, US9358374, US9358149, US9358063, US9351787, US9339336, US9320915, US9320644, US9314368, US9314289, US9310956, US9308120, US9292152, US9271803, US9271784, US9254202, US9254167, US9254166, US9254164, US9211212, US9198713, US9198705, US9186223, US9179970, US9168102, US9168087, US9168082, US9155583, US9149653, US9138282, US9132031, US9131597, US9117258, US9113813, US9095358, US9089400, US9089261, US9055881, US9039699, US9024582, US9023031, US9020592, US9020591, US9014802, US9011428, US8989858, US8979838, US8979829, US8979725, US8968289, US8968284, US8934972, US8932207, US8926677, US8906010, US8905920, US8894646, US8888774, US8876818, US8876746, US8870866, US8870862, US8857043, US8852178, US8845655, US8845632, US8840608, US8838199, US8834547, US8801705, US8798761, US8792614, US8790339, US8784338, US8768437, US8764725, US8750983, US8747401, US8747400, US8747399, US8740846, US8734439, US8731641, US8721634, US8706185, US8702774, US8702695, US8702694, US8696685, US8696659, US8696548, US8685018, US8676338, US8672988, US8663216, US8663154, US8663153, US8663152, US8663088, US8660635, US8646460, US8644907, US8641711, US8641660, US8636729, US8636685, US8634897, US8630706, US8623068, US8611984, US8603073, US8593107, US8577460, US8574187, US8568405, US8549732, US8548565, US8523927, US8518095, US8518032, US8494614, US8494613, US8473032, US8473026, US8467853, US8467851, US8467589, US8465482, US8454595, US8452375, US8452068, US8449901, US8444638, US8439968, US8439908, US8435230, US8425583, US8425227, US8412318, US8403927, US8401616, US8398631, US8380290, US8377055, US8372067, US8361537, US8359730, US8355799, US8353908, US8349390, US8340776, US8337539, US8323279, US8321019, US8320653, US8317786, US8313484, US8306629, US8292887, US8290572, US8285390, US8275442, US8273012, US8271069, US8257350, US8257346, US8251992, US8239001, US8236038, US8233976, US8206435, US8200314, US8197881, US8196589, US8195287, US8192474, US8192426, US8192424, US8187321, US8182475, US8180447, US8180446, US8177781, US8175681, US8170660, US8170659, US8170658, US8165669, US8165668, US8165658, US8161976, US8160695, US8152803, US8148696, US8128595, US8114071, US8112292, US8105339, US8092507, US8078278, US8074662, US8060185, US8057407, US8052735, US8052734, US8046053, US8046052, US8043285, US8012153, US8012149, US7998062, US7997278, US7996064, US7993336, US7988689, US7979107, US7974677, US7971341, US7966054, US7963962, US7963961, US7959627, US7953471, US7951141, US7930031, US7928281, US7925328, US7923694, US7909865, US7901403, US7896912, US7892230, US7881770, US7879034, US7862560, US7854754, US7853305, US7850728, US7850727, US7840253, US7837678, US7837677, US7835784, US7835778, US7831082, US7828793, US7824405, US7824398, US7820193, US7819912, US7819863, US7818044, US7797032, US7794456, US7787937, US7778692, US7778687, US7769431, US7766949, US7763035, US7758537, US7756587, US7756568, US7751865, US7725155, US7717912, US7708733, US7704249, US7697972, US7691101, US7678069, US7660623, US7657300, US7650185, US7648500, US7641632, US7637930, US7636595, US7632268, US7632267, US7630753, US7617001, US7606613, US7599730, US7585296, US7582050, US7572251, US7570791, US7567834, US7557353, US7556628, US7542791, US7537605, US7535363, US7517362, US7510699, US7507238, US7507236, US7507234, US7505812, US7500985, US7495224, US7491942, US7491200, US7468059, US7462179, US7462178, US7458970, US7458378, US7449021, US7449020, US7445618, US7442191, US7435247, US7429262, US7429260, US7422585, US7419488, US7393351, US7387625,

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Abstract:
Source: US4719919A A system for generating heat and sensing the temperature in an internal body organ such as in a tumor and for gaining information about the tumor for diagnosis and other purposes comprising a first system portion which is preferably entirely implantable beneath the skin of the person being treated or diagnosed including a probe **device** having electrical heater and sensor elements in it for implanting extending into the tumor to be treated and including an internal control unit also implantable under the skin and operatively **connected** to the heater and sensor elements in the probe, the internal control unit also including an electronic control unit for controlling the energizing of the heater element and having a sensor responsive portion responsive to the temperature sensed by the sensor element, and a transmitter/receiver **device** and a second system portion including an external control unit having a transmitter/receiver **device** for positioning on the skin adjacent to the internal transmitter/receiver **device** for exchanging information between the internal and the external control units, the external control unit also including a computer and associated computer control **devices** and software. The external control unit also includes system elements for controlling the application of electric energy to the heater element to generate heat in the body organ. The internal control unit may also include a rechargeable energy source rechargeable under control of the external control unit.

PatBase - US4719919_A



47) Family number: 10708351 (WO8403838A1)

Title: DRAINAGE **DEVICE** FOR USE WITH SUCTION OR GRAVITY FLOW

Priority: AU19840028203 19840328 EP19840901673 19840328 EP19900102133 19840328 US19830479683 19830328 WO1984US00489 19840328

Family:

Publication number	Publication date	Application number	Application date
AT139127 E	19960615	AT19840103327T	19840328
AT79769 E	19920915	AT19840901673T	19840328
AU198428203 A1	19841025	AU19840028203	19840328
AU198930726 A1	19890615	AU19890030726	19890224
AU579317 B2	19881124	AU19840028203	19840328
AU623377 B2	19920514	AU19890030726	19890224
DE3485891 D1	19921001	DE19843485891	19840328
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DE3486435 D1	19960718	DE19843486435	19840328
DE3486435 T2	19961128	DE19843486435T	19840328
EP0138989 A1	19850502	EP19840901673	19840328
EP0138989 A4	19860922	EP19840901673	19840328
EP0138989 B1	19920826	EP19840901673	19840328
EP0371009 A2	19900530	EP19900102133	19840328
EP0371009 A3	19910306	EP19900102133	19840328
EP0615759 A2	19940921	EP19940103327	19840328
EP0615759 A3	19941026	EP19940103327	19840328
EP0615759 B1	19960612	EP19940103327	19840328
JP1782651 C3	19930831	JP19840501643	19840328
JP4060669 B4	19920928	JP19840501643T	19840328
JP60501192 T2	19850801	JP19840501643T	19840328
WO8403838 A1	19841011	WO1984US00489	19840328

Probable Assignee: DEKNATEL TECHNOLOGY CORP

Assignee(s):(std)**:** INNOVATIVE SURGICAL PROD ; INNOVATIVE SURGICAL PRODUCTS I ; PFIZER HOSPITAL PROD ; DEKNATEL TECH CORP

Assignee(s): DEKNATEL TECHNOLOGY CORP ; DEKNATEL TECHNOLOGY CORP WILMINGTON DEL US ; GENZYME CORP ; INNOVATIVE SURGICAL PRODUCTS INC ; PFIZER HOSPITAL PRODUCTS GROUP INC ; INNOVATIVE SURGICAL PRODUCTS ; PFIZER HOSPITAL PRODUCTS GROUP INC NEW YORK N Y US ; TELEFLEX CT DEVICES INC

Inventor(s):(std)**:** BLAKE LARRY W ; BLAKE W ; HARVEL ERVIN R ; HARVEL ERVIN RONALD ; HARVEL R ; MASON DUANE R ; MASON R ; WRIGHT GEORGE M ; WRIGHT M

Inventor(s): WRIGHT M GEORGE MISSION VIEJO CA 92675 US ; LARRY W BLAKE ; GEORGE M WRIGHT ; ERVIN RONALD HARVEL ; DUANE R MASON ; MASON R DUANE IRVINE CA 92664 US ; MEISON DEYUAIN AARU ; RAITO JOOJI EMU ; HARVEL R ERVIN MISSION VIEJO CA 92675 US ; BLAKE W LARRY IRVINE CA 92714 US ; BUREIKU RARII DABURYU ; ERVIN R HARVEL ; HAABERU AABIN AARU

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD

Designated states: AT AU BE CH DE FR GB JP LI LU NL SE

International class (IPC 8-9): A61M1/00 B65B31/04 B67C3/16 F01L7/08 (Advanced/Invention); A61M1/00 B65B31/04 B67C3/02 F01L7/00 (Core/Invention)

International class (IPC 1-7): A61M1/00 B65B31/04 B67C3/16 F01L7/08 G01L7/00 G01L7/08

CPC: A61M1/0027 A61M1/0013 A61M2209/082 A61M2209/084

European class: A61M1/00A6

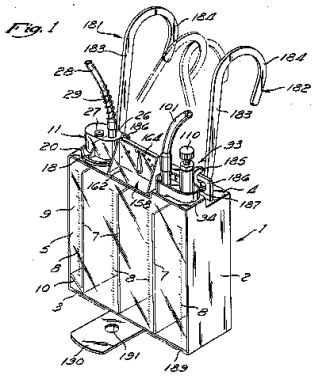
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Forward Citations: WO9906081, WO16025314, US9044541, US6537495, US6315751, US6017493, US5507734, US5372593, US5300050, US5026358, US5019060, US4902284, US4889531, US4784642, US4756501, US4723949, JP7100771, EP3159022, EP0263664, EP0189478, DE3539955,

Abstract:
In a drainage **apparatus** for draining **fluids** from the body, particularly from the pleural or cardiac cavities, into a collection chamber (24, 33, 48, 55, 85) having an inlet (90) for **connection** to the patient the inlet has a generally U-shaped inlet passage for holding a small quantity of liquid so that air leaking from the patient bubbles through the liquid as a visable indicator of the leak and drained liquid temporarily accumulates in the passage for periodic sampling. To avoid or dispose of obstructions in the passage, the inlet is switchable from one mode where drained **fluid** passes through the liquid in the inlet passage to another mode where it does not. The **apparatus** may be used in gravity drainage or an outlet to the chamber may be **connected** to a source of suction. A diaphragm pressure gauge (158) is provided on the chamber to directly measure the working pressure therein. The diaphragm is flexible but impervious to the **fluids**, including air, and in use a pressure differential between the atmosphere and interior of the chamber causes the diaphragm to flex and this motion is translated to display (166) the pressure in the chamber. The level of suction applied to the chamber is limitable by an adjustable suction relief valve (130, 102) which vents the outlet to atmosphere at a predetermined level of suction. Hangers (184) are als provided for suspending the chamber and which can nest on the chamber for storage and interlock to form a carrying handle. A rotatable stand (190) in the base of the chamber can be turned out to place the **device** on a support surface and can also be rotated into a recess in the base for storage.

Fig. 1



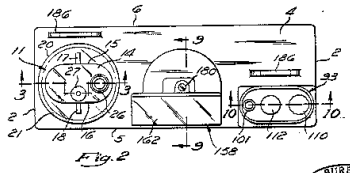


Fig. 2

BUREAU OMPI WIPO INTERNATIONAL

48) Family number: 34574717 (US4570638A)

Title: Method and **apparatus** for spectral transmissibility examination and analysis

Priority:

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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: SOMANETICS CORP

Assignee(s):(std)**:** SOMANETEITSUKUSU CORP ; SOMANETICS CORP ; STODDART HUGH F

Assignee(s): SOMANETICS A CORP OF MICHIGAN CORP ; SOMANETICS A OF MI CORP ; SOMANETICS CORP TROY MICH US ; STEWART MELVILLE C ; SOMANETICS 1179 CHICAGO ROAD TROY MICHIGAN 48084 A ; SOMANETICS A CORP OF MI CORP ; LEWIS GARY D ; MESSING WAYNE P

Inventor(s):(std)**:** GARY D LEWIS ; GEERII DEII RUISU ; GIYARII DEI RUISU ; GYARII DEI RUISU ; HIYUU EFU SUTODAADO ; HIYUU EFU SUTOTSUDAATO ; HUGH F STODDART ; HYUU EFU SUTODAADO ; KLOSE PETER H ; LEWIS GARY D ; LEWIS GARY DEAN ; MESSING WAYNE P ; STEWART II MELVILLE C ; STEWART MELVILLE C ; STEWART MELVILLE C II ; STODDART HUGH F ; STODDART HUGH FRANKLIN

Inventor(s): STODDART HUGH FRANKLIN GROTON MASSACHUSETTS 01450 US ; STODDART HUGH FRANKLIN GROTON MASSACHUSETTS 01450 ; LEWIS GARY DEAN ST CLAIR SHORES MICHIGAN 48081 US

Agent(s): BORDEN LADNER GERVAIS LLP

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

International class (IPC 8-9): A61B10/00 A61B5/00 A61B5/024 A61B5/145 A61B5/1455 G01N21/84 G01N33/48 (Advanced/Invention); A61B10/00 A61B5/00 A61B5/024 A61B5/145 G01N33/48 (Core/Invention)

International class (IPC 1-7): A61B10/00 A61B3/00 A61B5/00 A61B5/14 A61B6/00 A61B6/08 G01N21/84 G01N33/48

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European class: A61B5/00P12F A61B5/024D4B A61B5/1455 A61B5/1455N2 A61B5/1455N4 A61B5/43F2 A61B5/68B2B K61B5/1455

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Classification Explorer

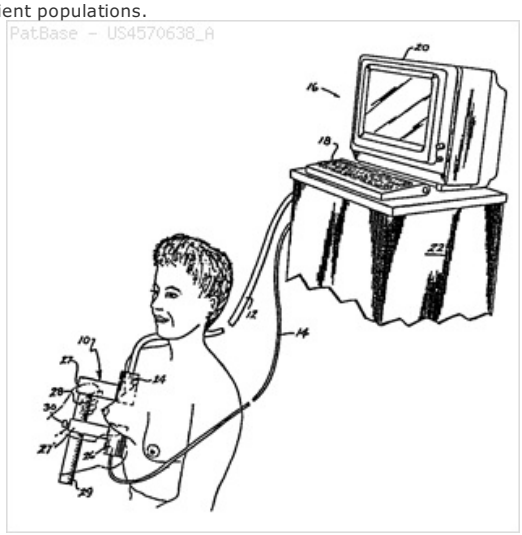
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Abstract:
Source: US4570638A Methodology and **apparatus** for the clinical evaluation of biological matter, in particular the human breast, in situ and in vivo, by spectral light transmissivity. An optical probe introduces selected light spectra into the examination subject at a first position and resulting light is detected at a second position located some distance from the infusion point; also, reception preferably occurs at another location, and the distances of these locations from the infusion point are determined. The light energy received at the distant points is quantified and conditioned by use of the determined distances from the infusion point and also by contrasting the data from the two differently-located reception points, such that the resulting data is compensated or normalized to characterize intrinsic internal tissue characteristics in an absolute sense, devoid of individual characteristics such as skin pigmentation, breast thickness, etc. The methodology further includes analytical or diagnostic treatment of the conditioned data by specific comparison of conditioned data taken from different regions of the same subject, of conditioned data taken from the same region on physiologically paired and/or different subjects, and also provides for meaningful accumulation of large-scale "background" or "average" values based upon identified and selected patient populations.



49) Family number: 31543474 (US4544498A)

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Title: Pearlescent liquid suspension

Priority:
CA19840457438 19840626 EP19840107657 19840702 GB19930013642 19930701
IN1996MA00454 19960321 IN1994MA00578 19940630 JP19830120990 19830705
WO1994GB01426 19940630 JP20030293173 19940630 JP19950503369T 19940630

Family:

Publication number	Publication date	Application number	Application date
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WO9501221 A1	19950112	WO1994GB01426	19940630

Probable Assignee: NEKTAR THERAPEUTICS

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Assignee(s): WELLS FARGO BANK NATIONAL ASSOCIATION COLLATERAL A ; NEKTAR THERAPEUTICS ; WELLS FARGO BANK NATIONAL ASSOCIATION COLLATERAL AGENT AS ; SUZUKI TOSHIO ; OF BRADFORD BRADFORD WEST YORKSHIRE GB UNIV ; BRADFORD PARTICLE DESIGN LTD BRADFORD GB ; OF BRADFORDBRADFORD WEST YORKSHIRE GB UNIV ; KAO CORP TOKIO TOKYO JP

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Designated states: AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK ES FI FR GA GB GE GN GR HU IE IT JP KE KG KP KR KZ LI LK LU LV MC MD MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SI SK SN TD TG TJ TT UA US UZ VN

International class (IPC 8-9):
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A61K31/137 C11D1/38 C11D1/68 C11D1/72 (Core/Non-invention)

International class (IPC 1-7): A61K7/00 A61K7/06 A61K7/075 A61K7/08 A61K9/14 A61K9/16 B01D11/00 B01F13/00 B01F23/00 B01F3/00 B01J13/00 B01J19/00 B01J2/00 B01J2/04 B01J2/04 B01J3/00 B05B7/06 B05B7/06 B29B9/10 C11D1/62 C11D1/66 C11D1/68 C11D1/835 C11D17/00 C11D3/20 C11D3/40 C11D9/44

CPC: A61K9/1688 A61K9/1694 B01D11/0411 B01F5/0659 B01J2/04 B05B7/06 B05D2401/90 A61Q5/02 A61K8/345 A61K8/416 C11D1/62 C11D1/72 C11D1/835 C11D3/0089 C11D3/2013 C11D3/202 C11D3/2031 C11D17/0013

European class: A61K7/06C A61K7/50K6B A61K7/50K8H A61K8/34D A61K8/41L A61K9/16P2 A61K9/16P4 A61Q5/02 B01D11/04B B01D11/04B4 B01F5/06B3H B01J2/04 B05B7/06 C11D1/835 C11D17/00B2 C11D3/00B18 C11D3/20B1A2 C11D3/20B1B2 C11D3/20B1D2 L05D401/90 M11D1/62 M11D1/68 M11D1/72 M11D3/20B1A2

US class: 252/547 252/DIG.14 252/DIG.2 264/11 264/12 264/13 264/5 425/6 425/7 510/416 516/59 516/71 523/171

Classification Explorer

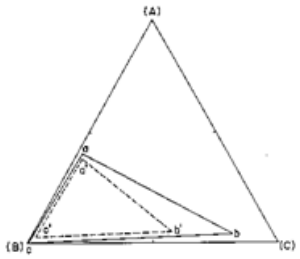
Cited documents: US5582779 A, US5360616 A, US5043280 A, US4734227 A, US4486334 A, US4422985 A, US4363755 A, US4275055 A, US4013744 A, JP57156410, JP57067510, JP1176437, GB2121072 A1, FR2262959 A1, EP0322687 A2, DE4041563 A1, DE1078283 B,

Forward Citations: WO9944733, WO9922855, WO9919445, WO9919443, WO9919429, WO9919428, WO9852544, WO9836825, WO9747274, WO9747274, WO8602828, WO16197101, WO14190204, WO13025241, WO11032992, WO10138868, WO10125275, WO09119055, WO09072950, WO09047935, WO07111899, WO07111899, WO07111898, WO07111898, WO07111892, WO07111892, WO07009164, WO06132242, WO06063025, WO05095005, WO05061090, WO05042219, WO04077168, WO04071645, WO04071645, WO03090715, WO03090715, WO03032931, WO03006223, WO0220538, WO0220538, WO02092213, WO02089851, WO02058674, WO02058674, WO0115664, WO0115664, WO0075281, WO0075281, WO0030614, WO0030613, WO0027844, WO0007563, WO0007563, US9833451, US9808030, US9700529, US9616060, US9554993, US9463161, US9439862, US9421166, US9415009, US9249266, US9155732, US9120031, US9056955, US8969281, US8877162, US8834930, US8828359, US8815258, US8808713, US8741346, US8734830, US8715623, US8709484, US8703806, US8642091, US8616464, US8609611, US8585943, US8585942, US8563082, US8551526, US8529788, US8513204, US8475845, US8470301, US8404217, US8357648, US8349294, US8324266, US8273330, US8246934, US8241371, US8236745, US8188026, US8182792, US8168223, US8167279, US8148377, US8147730, US8119639, US8101207, US8080236, US8079838, US8003589, US7994197, US7967221, US7928089, US7910535, US7871598, US7833550, US7833549, US7829123, US7798475, US7785631, US7780991, US7767118, US7745566, US7744925, US7744923, US7678364, US7641823, US7635442, US7628978, US7628977, US7582284, US7556798, US7521069, US7507823, US7435408, US7390411, US7384649, US7354601, US7332111, US7326691, US7306787, US7300919, US7276190, US7250152, US7223445, US7220456, US7208106, US7182961, US7175886, US7150766, US7125566, US7108867, US7087197, US7083748, US7052678, US7048908, US7029700, US6998051, US6977087, US6956021, US6942868, US6921528, US6884911, US6860907, US6858199, US6858166, US6830714, US6821429, US6761909, US6756062, US6749835, US6740310, US6676710, US6669960, US6652837, US6635283, US6630121, US6620351, US6615620, US6521258, US6521238, US6503480, US6475524, US6468994, US6461642, US6447753, US6447752, US6440337, US6436443, US6399102, US6346523, US6261326, US6254854, US6242406, US6232283, US6228831, US6149899, US6063910, US6048369, US5874029, US5864923, US5833891, US5693317, US5348736, US5234496, US5213716, US5154915, US5102655, US4997641, US2011200678, US2011135737, US2011020741, US2010308484, US2010308483, US2010298602, US2010294986, US2010291221, US2010247655, US2010183725, US2010038585, US2009297595, US2009269403, US2009209445, US2009186797, US2009069207, US2009069206, US2009004282, US2008269449, US2008260852, US2008093757, US2008089944, US2008039366, US2007128273, US2007065373, US2006280823, US2006279011, US2006208399, US2006160871, US2006138687, US2006039987, US2005221018, US2005218076, US2005181059, US2005170000, US2005163725, US2005163723, US2005158395, US2005158249, US2005051917, US2004202681, US2004191186, US2004178529, US2004161467, US2004107901, US2004091407, US2004076589, US2004071783, US2004067259, US2004067251, US2004047811, US2004026319, US2004009231, US2003222364, US2003082236, US2003066800, US2002189454, US2002179540, US2002009418, TR28235, KR100853596, KR100697780, JP6042022, JP6042009, JP5933234, JP5743058, JP5405294, JP4874483, JP4635154, JP2016518966, JP2016175078, JP2014166631, JP2013522028, JP2013107065, JP2012500798, JP2011526836, JP2010525934, JP2010505605, JP2009530356, JP2007530486, JP2007517898, JP2006232572, JP2006181553, JP2004512942, JP1313415, GR90100470, GR90100468, GR900100470, GR900100468, GB2421910, GB2405334, GB2387781, GB2381214, GB2381214, GB2354968, GB2354968, GB2160888, FR2945110, FR2824754, EP3111927, EP3111926, EP3106149, EP2612703, EP2298286, EP2277505, EP2219771, EP2191821, EP2100913, EP1904219, EP1904219, EP1782839, EP1463574, EP1357901, EP1339391, EP1331928, EP1330266, EP1330266, EP1263412, EP1232002, EP1232002, EP1169117, EP1157726, EP1133345, EP1133345, EP1133284, EP1090894, EP1061122, EP1027144, EP1017367, EP1005328, EP0930936, EP0910329, EP0868942, EP0728037, EP0559304, EP0539251, EP0520551, EP0410567, EP0407042, EP0384415, EP0242792, EP0183077, DE19732708, DE19640027, DE102015007604, AU767767, AU739036, AU739036, AU2002221320,

Abstract:
Source: US4544498A A pearlescent liquid suspension comprises essentially (A) a cationic surface active agent, (B) a higher alcohol, and (C) an alpha-mono(methyl-branched alkyl) glyceryl ether. The total amount of these ingredients should be from 1 to 40 wt percent, mixing ratios of (A), (B) and (C) lying within an area surrounded by **lines** **connecting** the specified points a, b and c on the triangular coordinate of the ternary system. The suspension according to the invention is more inexpensive than known pearling agents. Further, since it includes crystals which are as fine as 1 to 10 microns, the suspension is more stable and the appearance is more beautiful than known agents. The pearlescent liquid suspension according to the invention may be added to liquid or paste compositions such as liquid detergent compositions and rinse compositions to give them beautiful pearl luster.

PatBase - US4544498_A

FIGURE



50) Family number: 29752699 (US2003215894A)

Title: Protein-induced monoclonal receptors to protein ligands

Priority:

AU19840033950 19840817	AU19880024973 19881109	CA19840461215 19840816
CA19880582501 19881108	EP19840903305 19840817	US19840001304 19840817
JP19840503301 19840817	US19850702954 19850215	US19870118823 19871109
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Family:

Publication number	Publication date	Application number	Application date
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US5972629 A	19991026	US19950461583	19950602
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WO9001701 A1	19900222	WO1989US03403	19890811
ZA8406439 A	19850327	ZA19840006439	19840817

Probable Assignee: LIGAND PHARMACEUTICALS INC

Assignee(s):(std)**:** LIGAND PHARM INC ; LIGAND PHARMACEUTICALS ; PROGENX INC ; SCRIPPS CLINIC RES ; SCRIPPS CLINIC AND RES FOUNDAT ; SCRIPPS CLINIC AND RESEARCH FOUNDATION ; SCRIPPS RESEARCH INST

Assignee(s): LERNER RICHARD A ; SCRIPPS RESEARCH INST A CORP OF CA ; SCRIPPS CLINIC AND RESEARCH FOUNDA TION ; NATIONAL INSTITUTES OF HEALTH NIH US DEPT OF HEA ; NATIONAL INSTITUTES OF HEALTH ; SCRIPPS CLINIC AND RESEARCH FOUNDATION LA JOLLA CALIF US ; NIMAN HENRY L ; NIMAN HENRY LEE ; NATIONAL INSTITUTES OF HEALTH NIH US DEPT OF HEALTH AND HUMAN SERVICES DHHS US GOVERNMENT ; NATIONAL INSTITUTES OF HEALTH (NIH) US DEPT OF HEALTH AND HUMAN SERVICES (DHHS) US GOVERNMENT ; SCRIPPS CLINIC AND RESEARCH FOUNDATION A CA CORP ; SCRIPPS CLINIC RES FOUND ; LIGAND PHARMACEUTICALS INC ; LIGAND PHARMACEUTICALS INC SAN DIEGO CALIF US ; NATIONAL INST

Inventor(s):(std)**:** ALAN LERNER RICHARD ; ALAN NIMAN HENRY L E LERNER RI ; HENRY L NIMAN ; HENRY LEE NIMAN ;

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Inventor(s):	NIMAN HENRY LEE CARLSBAD CA 92008 US ; NIMAN HENRY L E LERNER RICHARD ALAN ; LERNER RICHARD ALAN LA JOLLA CA 92037 US ; NAME NOT GIVEN
Agent(s):	GRIFFITH HACK; SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; FETHERSTONHAUGH AND CO; SMART AND BIGGAR
Designated states:	AT AU BE CH DE ES FR GB GR IT JP LI LU NL SE US
International class (IPC 8-9):	A61K39/00 A61K39/395 A61P31/12 A61P35/00 B01J20/22 C07K1/22 C07K14/005 C07K14/15 C07K14/195 C07K14/41 C07K14/52 C07K14/705 C07K14/82 C07K16/00 C07K16/32 C07K19/00 C07K7/08 C12N15/00 C12N15/02 C12N5/00 C12N5/10 C12P21/00 C12P21/04 C12P21/08 C12Q1/68 G01N33/543 G01N33/569 G01N33/574 G01N33/577 G01N33/68 (Advanced/Invention); A61K39/00 A61K39/395 A61P35/00 B01J20/22 C07K14/005 C07K14/195 C07K14/41 C07K14/82 C07K16/00 C07K19/00 C12N15/00 C12N15/02 C12N5/00 C12N5/10 C12P21/00 C12P21/08 C12Q1/68 C12R1/91 G01N33/574 G01N33/577 (Advanced/Non-invention); C07K14/82 C07K16/18 C12Q1/68 G01N33/543 G01N33/569 G01N33/574 G01N33/577 (Core/Invention)
International class (IPC 1-7):	A61B A61D A61K39/395 B01J20/22 B65D69/00 C07C103/52 C07G7/00 C07K13/00 C07K14/00 C07K14/82 C07K15/04 C07K15/12 C07K16/00 C07K16/32 C07K17/08 C07K7/06 C07K7/08 C07K7/10 C12N15/00 C12N15/02 C12N5/00 C12N5/10 C12P21/00 C12P21/04 C12P21/06 C12P21/08 C12Q1/00 C12Q1/68 C12R1/91 G01N33/53 G01N33/54 G01N33/543 G01N33/563 G01N33/569 G01N33/574 G01N33/577 G01N33/58 G01N33/68
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US class:	422/430 422/61 435/172.2 435/240.22 435/240.27 435/331 435/452 435/69.1 435/69.6 435/7.1 435/7.23 435/7.230P 435/7.8 435/7.92 435/7.94 435/7.95 435/70.2 435/70.21 436/501 436/503 436/510 436/514 436/516 436/518 436/548 436/811 436/813 436/814 530/324 530/325 530/326 530/327 530/328 530/329 530/350 530/387 530/387.7 530/387.9 530/388.8 530/388.85 530/389.7 530/403 530/413 530/824 530/826 530/828 536/23.53
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Forward Citations:	WO9948509, WO9942839, WO9942839, WO9942837, WO9942834, WO9942834, WO9426891, WO9426891, WO9304186, WO9218135, WO9214756, WO9212174, WO8910565, WO8908710, WO8807057, WO8701374, WO8701374, WO16154047, WO13059886, WO05033142, WO03016904, WO03016904, US8637264, US8383781, US8338107, US8048896, US8029787, US8012703, US7906331, US7858359, US7794946, US7737255, US7622557, US7572888, US7541151, US7537932, US7534867, US7455982, US7306907, US7223730, US7138240, US7115728, US7098025, US6797482, US6770449, US6723694, US6680192, US6605448, US6551789, US6545142, US6489451, US6410507, US6350731, US6331400, US6326138, US6323323, US6300099, US6291646, US6291212, US6291189, US6291159, US6248516, US6200764, US6153192, US6124438, US6083709, US6080724, US6077508, US6040290, US6018026, US5952304, US5889149, US5874528, US5869618, US5866363, US5843725, US5750375, US5733738, US5658739, US5648273, US5591587, US5578482, US5567584, US5563247, US5443956, US5212075, US5094941, US5084380, US5081230, US5028527, US4898932, US4798787, US2011150919, US2010284910, US2010099105, US2008299618, US2008261256, US2008226643, US2008076804, US2008004434, US2007207475, US2007086994, US2006188944, US2006153831, US2006026702, US2005181423, US2005158242, US2005112711, US2004265229, US2004209308, US2004110941, US2004033230, US2004029190, US2003222908, US2003182669, US2003130496, US2003013137, US2002173024, JP5503996, JP4500122, EP2505591, EP2056849, EP1549144, EP1064005, EP1057033, EP1012247, EP0767381, EP0699236, EP0354808, EP0298450, EP0269677, EP0269677, EP0260715, EP0253325, EP0253325, EP0206065, EP0206065, EP0203587, EP0203587, EP0190033, EP0175360, DE19736691,

Abstract:
Source: US2003215894A A method of characterizing a biological sample is provided. The method includes the steps of contacting the sample with at least two receptor molecules to generate a first pattern of reactivity and comparing that pattern to a second reactivity pattern generated by a known sample and indicative of oncogene expression.

PatBase - WO9001701_A1

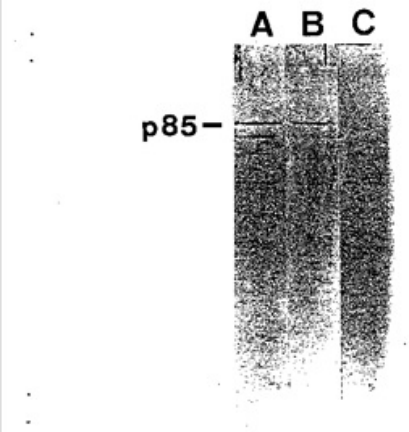


FIG. 1.

SUBSTITUTE SHEET

51) Family number: 24043922 (US4696671A)

Title: INFUSION SYSTEM HAVING PLURAL **FLUID** INPUT PORTS AND AT LEAST ONE PATIENT OUTPUT PORT

Priority:

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Family:

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

Assignee(s):(std)**:** ABBOTT LAB ; OMNI FLOW INC ; OMUNI FUROO INC ; OMNI HOW

Assignee(s): OMNI FLOW INC WOBURN MASS ; OMNI FLOW INC WILMINGTON MASS US ; OMNI FLOW INC WOBURN MASS US ; STROHL CLAIR ; PETSCHEK HARRY ; ABBOTT LABORATORIES ; ABBOTT LABORATORIES ABBOTT PARK ILL ; ABBOTT LABORATORIES ABBOTT PARK ILL US ; ABBOTT LABORATORIES ONE ABBOTT PARK ROAD ABBOTT PA ; HOSPIRA INC ; ABBOTT LABORATORIES AN IL CORP ; COYNE HENRY ; LAWHITE ERIC ; KALESKAS EDWARD ; ADANIYA GEORGE ; EPSTEIN PAUL

Inventor(s):(std)**:** ADANIYA GEORGE ; CLAIR STROHL ; EDWARD KALESKAS ; ERIC LA WHITE ; ERIC LAWHITE ; GEORGE ADANIYA ; GEORGE ADANIYA PAUL EPSTEIN ; HARRY PETSCHEK ; HENRY COYNE ; LA WHITE ERIC ; PAUL EPSTEIN ; WHITE ERIC LA ; PETSCHEK HARRY ; LAWHITE ERIC ; KALESKAS EDWARD ; EPSTEIN PAUL ; EPSTEIN GEORGE ADANIYA PAUL ; STROHL CLAIR ; COYNE HENRY ; ADANIVA GEORGE

Inventor(s): STROHL CLAIR NORFOLK MASSACHUSETTS 02056 ; PETSCHEK HARRY LEXINGTON MASSACHUSETTS 02173 ; LA WHITE ERIC SOUTH ROYALTON VERMONT 05068 ; KALESKAS EDWARD JEFFERSON MASSACHUSETTS 01522 ; EPSTEIN PAUL BROOKLINE MASSACHUSETTS 02146 ; COYNE HENRY FRAMINGHAM MASSACHUSETTS 01701 ; ADANIYA GEORGE SWAMPSCOTT MASSACHUSETTS 01907 ; ADANIYA GEORGE SWAMPSCOTT MASSACHUSETTS 01907 US ; POORU EPUSUTAIN ; PETSCHEK HARRY LEXINGTON MASSACHUSETTS 02173 US ; EDOWAADO KARUSUKASU ; COYNE HENRY FRAMINGHAM MASSACHUSETTS 01701 US ; JIYOOJI ADANIYA ; HENRII KOIN ; HARII PETOSHIETSUKU ; ERITSUKU RAHOWAITO ; EPSTEIN PAUL BROOKLINE MASSACHUSSETTS 02146 US ; EPSTEIN PAUL BROOKLINE MASSACHUSETTS 02146 US ; LA WHITE ERIC SOUTH ROYALTON VERMONT 05068 US ; KUREAA SUTOROORU ; KALESKAS EDWARD JEFFERSON MASSACHUSETTS 01522 US ; STROHL CLAIR NORFOLK MASSACHUSETTS 02056 US ; HOORU EPUSUTAIN ; JOOJI ADANYA ; HARII PETOSHETSUKU

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; SMART AND BIGGAR; SANFORD TCOLB AND CO

Designated states: BE CH DE FR GB IT LI LU NL SE

International class (IPC 8-9): A61M5/00 A61M5/14 A61M5/142 A61M5/168 A61M5/172 (Advanced/Invention);
A61M5/00 A61M5/168 (Advanced/Non-invention);
A61M5/142 A61M5/168 (Core/Invention)

International class (IPC 1-7): A61M31/00 A61M5/00 A61M5/14 A61M5/16

CPC: Y10S128/13 Y10S128/12 A61M2005/1402 A61M5/14224 A61M5/16827 A61M5/172 A61M2005/14208

European class: A61M5/142G4 A61M5/172 K61M5/142C K61M5/14A6 K61M5/168A11

US class: 128/DIG.12 128/DIG.13 417/479 604/118 604/153 604/258 604/56 604/66 604/67

Classification Explorer

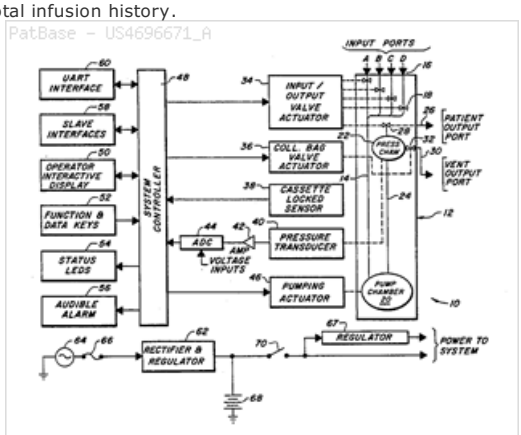
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Abstract:
Source: US4696671A An infusion system for administering multiple infusates at individually programmable rates, volumes, and sequences in any order from any one or more of plural **fluid** input ports through a patient output port and into the circulatory system of a patient. Infusates may be either continuously or time sequentially administered, and infusates may be either intermittently administered at selectively regular intervals or in time overlap to administer a dilution. Various error conditions are automatically detected and alarms generated in the event of conflicts between infusates, to identify times of no infusions, and to identify system malfunctions. The system is selectively operable, among others, in a priming mode, a maintenance mode, a normal-on mode, and a manual override mode. The system is operative to adapt actual to desired flow rates in normal operartion. All **fluids** flow through a unitary disposable cassette without making any other system contact. Air bubbles in the **fluid** **line** are automatically detected and disposed of. **Fluid** pressures are monitored and system operation adjusted as a function of such pressures. Infusates may be administered from syringes as well as from standard bag or bottle containers. Infusate from a selected input port may be controllably pumped into a syringe for unsticking the syringe plunger. The system is selectively operable to adjust total **fluid** volume and rate to below preselected values for patients whose total **fluid** intake must be restricted. The system is operable to maintain an accurate record of total infusion history.



52) Family number: 12224723 (US4596133A)

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Title: **Apparatus** and methods for measuring **fluid** flow parameters

Priority: DE19843428058 19840730 US19830518444 19830729 US19880186571 19880427 US19860846635 19860401

Family:

Publication number	Publication date	Application number	Application date
DE3428058 A1	19850328	DE19843428058	19840730
DE3428058 C2	19950601	DE19843428058	19840730
DE3448533 C2	19961017	DE19843448533	19840730
FR2569270 A1	19860221	FR19840012026	19840727
FR2569270 B1	19920417	FR19840012026	19840727
GB2146122 A1	19850411	GB19840019211	19840727
GB2146122 B2	19870513	GB19840019211	19840727
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IT1179744 A	19870916	IT19840067756	19840730
IT8467756 A0	19840730	IT19840067756	19840730
JP1864158 C3	19940808	JP19840157719	19840730
JP5076580 B4	19931022	JP19840157719	19840730
JP60115825 A2	19850622	JP19840157719	19840730
US4596133 A	19860624	US19830518444	19830729
US4754650 A	19880705	US19860846635	19860401
US4856321 A	19890815	US19880186571	19880427

Probable Assignee: PANAMETRICS

Assignee(s):(std)**:** EXXON RESEARCH ENGINEERING CO ; PANAMETRICS

Assignee(s): PANAMETRICS INC ; PANAMETRICS INC WALTHAM MASS US ; PANAMETORIKUSU INC ; EXXON RESEARCH AND ENGINEERING CO

Inventor(s):(std)**:** BRASWELL D LEONARD ; BRASWELL LEONARD D ; LYNNWORTH LAWRENCE C ; LYNNWORTHW LAWRENCE CONRAD ; SMALLING JACK W ; SMALLING JACK WARREN ; RORENSU SHII RINWAASU ; RENAADO DEII BURASUUERU ; RENAADO DEII BURASUERU ; LYNNWORTH LAWRENCE CONRAD ; JIYATSUKU DABURIYUU SUMOORINGU ; JATSUKU DABURYUU SUMOORINGU ; BRASWELL LEONARD DEAN ; BRASWELL JACK W SMALLING LEONA

Inventor(s): JACK W SMALLING LEONARD D BRASWELL ; JACK WARREN SMALLING LEONARD DEAN BRASWELL ET LAWR ; JACK WARREN SMALLING LEONARD DEAN BRASWELL ET ; JACK W SMALLING ; D BRASWELL LEONARD ; C LYNNWORTH LAWRENCE ; LEONARD D BRASWELL ; LAWRENCE C LYNNWORTH ; W SMALLING JACK

International class (IPC 8-9): G01M3/00 G01M3/04 (Advanced/Invention)

International class (IPC 1-7): F16L41/04 G01F1/66 G01H5/00 G01M3/24 G01N29/00 G01N29/02 G01N29/18 G01P5/00 G01P5/18

CPC: G01F1/662 G01F1/667 G01M3/24 G01N29/024 G01N29/4454 G01N2291/0258 G01N2291/02818 G01N2291/02836 G01N2291/02881 G01N2291/0289 G01P5/245

European class: G01F1/66B G01F1/66F G01M3/24 G01N29/024 G01N29/44F G01P5/00B4 G01P5/24T S01N291/025J S01N291/028D S01N291/028F S01N291/028T S01N291/028U

US class: 73/24 73/24.01 73/40.5A 73/861.18 73/861.28

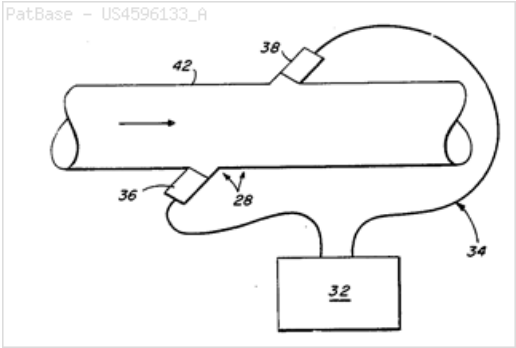
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Cited documents: US4754650 A, US4596133 A, US4515021 A, US4480485 A, US4365518 A, US4332272 A, US4308754 A, US4103551 A, US4066095 A, US4011755 A, US4004461 A, US3751979 A, US3729993 A, US3575050 A, US3564912 A, US2978899 A, US2515221 A, JP53087759 A2, JP182549 C3, GB2131173 A1, GB2128740 A1, GB2026165 A1, GB2023825 A1, GB1603365 A, GB1597977 A, GB1597577 A, GB1580524 A, GB157977 A, GB1551743 A, GB1338436 A, GB1315294 A, EP0012160 A1, DE2950862 A1,

Forward Citations: WO9814774, WO9612440, WO9321500, WO9313414, WO9303334, WO9114925, WO9109281, WO8706703, WO14016311, WO13166244, WO12044435, WO08073672, WO08073671, WO08033035, WO07059790, WO07059790, WO06063873, WO05031369, WO05031369, WO05029064, WO05026666, WO03048713, WO0045132, WO0019176, US9903745, US9897510, US9840885, US9810160, US9791345, US9752959, US9746360, US9689727, US9678043, US9568347, US9557201, US9488509, US9435674, US9383476, US9335193, US9234777, US9188468, US9142111, US9097568, US9086354, US9020765, US9017885, US8850871, US8569702, US8490498, US8442781, US8261776, US8047082, US8043557, US7980142, US7955291, US7942068, US7896831, US7890276, US7836914, US7815852, US7814936, US7794419, US7752885, US7752884, US7749184, US7711500, US7694565, US7637150, US7473371, US7398160, US7299140, US7297280, US7293454, US7287436, US7197403, US7172570, US7171847, US7121150, US7110875, US7110875, US7044001, US7027357, US7010433, US6901812, US6876128, US6874361, US6868739, US6854339, US6850847, US6837113, US6804610, US6754592, US6732595, US6709430, US6704660, US6691582, US6647804, US6647762, US6634239, US6604051, US6568281, US6508135, US6487916, US6442999, US6390999, US6381549, US6338272, US6289723, US6279379, US6216544, US6216091, US6210591, US6199423, US6192739, US6153109, US6128946, US6116080, US6098466, US6067844, US5939618, US5816242, US5791145, US5685989, US5625140, US5595182, US5544074, US5537854, US5515733, US5501098, US5493916, US5460047, US5453576, US5440937, US5421212, US5392635, US5373736, US5372047, US5351560, US5343737, US5277070, US5255564, US5159838, US5115670, US5060507, US5012449, US4971516, US4856321, US4823788, US2017138909, US2017016798, US2016195418, US2016116316, US2016109322, US2015377669, US2015277447, US2015260557, US2015260003, US2015211905, US2015000422, US2014144156, US2014123768, US2014041442, US2013061687, US2012079872, US2012017998, US2012017700, US2011203386, US2011137585, US2011137579, US2011137540, US2010268484, US2010229654, US2010064821, US2009314063, US2009288496, US2009249888, US2009171261, US2009047175, US2009044828, US2008275377, US2008134755, US2008041148, US2007186624, US2007136008, US2007112289, US2006156827, US2006156801, US2006064254, US2006009403, US2005210999, US2005178732, US2005148923, US2005145040, US2005143937, US2005131335, US2005092102, US2005087025, US2005049777, US2005024215, US2005006985, US2004220751, US2004158411, US2004129088, US2004123674, US2004123673, US2004064049, US2004011141, US2003212496, US2003208193, US2003117896, TWI410611, RU2595647, JP64015936, JP6271179, JP5066172, JP4444588, JP2014032196, JP2005010077, GB2335041, GB2335041, GB2210977, GB2176894, GB2176894, FR2803032, FR2634557, ES2239874, EP2920556, EP2231017, EP2231017, EP2180304, EP2103911, EP1413858, EP1233266, EP1113247, EP1077365, EP1077365, EP1012110, EP0874238, EP0708313, EP0650035, EP0639776, EP0481141, EP0477419, EP0344927, DE4437588, DE4426280, DE4212519, DE3941544, DE29719677, DE202008003584, DE19861186, DE19861075, DE19861074, DE19859572, DE19743340, DE19743340, DE19743340, DE19736528, DE19646685, DE102013013927,

DE102006056735, DE102005059062, DE102005059062, DE10057188, DE10057188, DE10057188, DE10057188, DE10026568, DE10026568, CN104755884, CN103383277, CN103383277, AU647438,

Abstract:
Source: US4596133A An **apparatus** and method for measuring **fluid** flow parameters operate under conditions wherein the composition of the **fluid** flow can change rapidly thereby changing the speed of sound within the **fluid** and wherein the actual flow rate can change rapidly thereby further changing the transit time of acoustic energy traversing an interrogation path within the **fluid**. The **apparatus** determines the speed of sound in the **fluid** and the **fluid** flow velocity by measuring an upstream and a downstream transit time of acoustic energy within the **fluid**. The **fluid** is typically flowing within a conduit, and the transducers for transmitting and receiving the acoustic energy are precisely and carefully installed in the conduit. The measurements also allow an estimate to be made of the average molecular weight of gases passing through the conduit and hence of the mass flow rate of a gas. The measurements are taken at a frequency sufficient to satisfy the Nyquist criterion with regard to the maximum frequencies of interest for the **fluid** flow parameters being measured. Special techniques are developed for enabling transducer placement in preexisting conduit arrangements wherein access to the conduit is limited.



53) Family number: 17891879 (US4510929A)

Title: DISPOSABLE RADIOACTIVE AEROSOL INHALATION **APPARATUS**

Priority: AU19850039601 19850306 CA19850474610 19850219 US19850707387 19850301 US19850779426 19850924 US19840642718 19840822 US19820360370 19820430 US19860928826 19861110 US19870115903 19871102

Family:

Publication number	Publication date	Application number	Application date
AU198539601 A1	19860911	AU19850039601	19850306
AU582143 B2	19890316	AU19850039601	19850306
CA1251705 A1	19890328	CA19850474610	19850219
US4510929 A	19850416	US19840642718	19840822
US4598704 A	19860708	US19850707387	19850301
US4598704 B1	19920326	US19850707387	19850301
US4703753 A	19871103	US19860928826	19861110
US4823784 A	19890425	US19870115903	19871102
US4823784 B1	19911126	US19870115903	19871102

Probable Assignee: CADEMA MEDICAL PRODUCTS INC 569 NORTH STREET MIDDLETOWN NEW YORK 10940 A CORP OF NEW YORK

Assignee(s):(std)**:** BORDONI MAURICE E ; CADEMA MEDICAL PRODUCTS INC ; LIEBERMAN EPHRAIM

Assignee(s): CIS US INC ; CIS US INC A MA CORP ; CIS US INC A CORP OF MA ; CADEMA MEDICAL PRODUCTS INC 569 NORTH STREET MIDDL ; CADEMA MEDICAL PRODUCTS INC 569 NORTH STREET MIDDLETOWN NEW YORK 10940 A CORP OF NEW YORK

Inventor(s):(std)**:** BORDONI MAURICE E ; EPHRAIM LIEBERMAN ; LIEBERMAN EPHRAIM ; MAURICE E BORDONI

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

International class (IPC 8-9): A61M11/00 A61M15/02 A61M16/00 (Advanced/Invention);
A61M16/00 (Advanced/Non-invention);
A61M15/02 (Core/Invention);
A61M16/00 (Core/Non-invention)

International class (IPC 1-7): A61B5/08 A61B6/00 A61M11/00 A61M15/00 A61M15/02 A61M16/10 A61N5/10 A62B7/00 B05B17/00 B05B17/06

CPC: A61M16/0063 A61M15/02 A61M16/0093 A61M16/1055 A61M16/1065 A61M16/0833 A61M16/0875

European class: A61M15/02 K61M16/00M5

US class: 128/1.1 128/200.14 128/200.16 128/200.18 128/200.21 128/203.12 128/203.25 128/203.29 128/654 600/3 600/431 D24/110

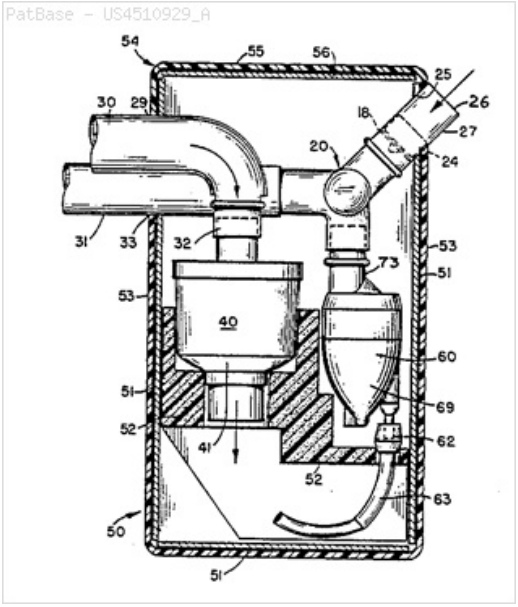
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Forward Citations: WO9317743, WO9204065, WO16082009, WO08138014, WO0051491, USRE46210, USD652908, USD450116, USD441070, USD433125, US9795752, US9717738, US9700564, US9700529, US9498592, US9326936, US9289568, US9242057, US9072854, US9050434, US8967141, US8936023, US8905026, US8815838, US8802149, US8629139, US8616200, US8596264, US8596263, US8561604, US8546423, US8539944, US8534280, US8524735, US8524734, US8460223, US8357696, US8337895, US8336545, US8273330, US8267081, US8221329, US8196573, US8181650, US8173168, US8161969, US8051854, US7994225, US7971588, US7947741, US7926484, US7841342, US7841341, US7771642, US7600511, US7594509, US7521069, US7493898, US7448375, US7422013, US7377276, US7350520, US7322349, US7278419, US7204245, US7191780, US7138141, US7097827, US7060992, US7025058, US6962151, US6921527, US6904912, US6901929, US6871648, US6806084, US6805124, US6805118, US6797258, US6737045, US6705316, US6685967, US6681767, US6627615, US6626168, US6620795, US6592904, US6584976, US6582728, US6546929, US6543448, US6509006, US6468798, US6423344, US6412481, US6390090, US6363932, US6328030, US6269810, US6230703, US6138668, US6105929, US6076520, US6051256, US6001644, US5997848, US5993783, US5858784, US5853002, US5827703, US5813401, US5792057, US5780014, US5775320, US5755221, US5752502, US5727542, US5701886, US5699786, US5666946, US5641662, US5630409, US5617844, US5613489, US5611332, US5603314, US5584285, US5497765, US5479920, US5458135, US5388571, US5372126, US5357945, US5355872, US5334374, US5235969, US5204113, US5186166, US5178138, US5165392, US5119807, US5099833, US5086765, US5060643, US5049389, US5036840, US5027808, US5020530, US4907581, US4880989, US4803977, US4795612, US4782828, US4741331, US4598704, US2015128935, US2014190482, US2013061849, US2012145149, US2011114090, US2010263666, US2010212668, US2010180891, US2010168690, US2010166673, US2010158957, US2010153158, US2010087416, US2010087386, US2010040560, US2010037890, US2010034910, US2010000535, US2009285905, US2009241950, US2009188500, US2009101144, US2009030930, US2008283051, US2008276940, US2008264416, US2008230058, US2008184993, US2008168988, US2008132457, US2008087280, US2008066754, US2008060644, US2007169774, US2007137644, US2007122418, US2007101994, US2007042048, US2007020199, US2006276473, US2006237665, US2006231090, US2006157056, US2006087614, US2006021613, US2005284474, US2005279349, US2005274377, US2005263150, US2005205090, US2005178847, US2005061318, US2005028811, US2004182383, US2004096400, US2003232020, US2003215514, US2003209243, US2003129141, US2003125633, US2003089366, US2003086877, US2003068279, US2003055354, US2003037785, US2003015191, US2002192164, US2002124852, US2002121275, US2002103443, TWI510258, EP2594272, EP1126890, EP1126890, EP0955885, DE4009067,

Abstract:
Source: US4510929A A disposable aerosol inhalation **device** for use in producing properly sized radioactive tagged particles. A mouthpiece is attached to a wye connector containing a valving system for inhalation of the radioactive aerosol and exhalation to an entrapping filter. Conduits are respectively provided by flexible tubing to a nebulizer and to the filter. The optimum range of particle sizes is generated by producing an aerosol from the nebulizer having an internal baffle. For ease of handling and to minimize radiation exposures, an entry is provided to add radioactive solution directly into the baffled nebulizer. To further reduce radiation exposure, the baffled nebulizer and entrapping filter are housed in a leaded enclosure.

PatBase - US4510929_A



54) Family number: 29257397 (US4543090A)

Title: Steerable and aimable catheter

Priority:
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US19840599111 19840411 US19870027455 19870318 US19850728634 19850503
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Family:

Publication number	Publication date	Application number	Application date
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US5114402 A	19920519	US19910664527	19910305

Probable Assignee: CATHETER RESEARCH INC

Assignee(s):(std)**:** CATHETER RES INC ; MARTIN MARIETTA ENERGY SYSTEMS ; MCCOY WILLIAM C ; CATHETER RESEARCH INC ; UIRIAMU SHII MATSUKOI ; UNITED STATES OF AMERICA GOVERNMENT OF RE AS ; UNITED STATES DEPARTMENT OF ENERGY ; UNITED STATES DEPARTMENT ENERGY ; US ENERGY ; US GOVERNMENT ; US GOV ENERGY

Assignee(s): CATHETER RESEARCH INC AN IN CORP ; CATHETER RESEARCH INC INDIANAPOLIS IND US ; UNITED STATES OF AMERICA GOVERNMENT OF THE AS REPRESENTED BY TH ; THE UNITED STATES OF AMERICA AS REPRESENTED BY THE DEPARTMENT OF ENERGY ; UNITED STATES OF AMERICA GOVERNMENT OF THE UNITED STATES DEPARTMENT OF ENERGY ; SALES BRIAN C ; UNITED STATES OF AMERICA GOVERNMENT OF UNITED STATES DEPARTMENT OF ENERGY ; UNITED STATES OF AMERICA GOVERNMENT OF THE REPRESENTED BY TH AS ; UNITED STATES OF AMERICA (GOVERNMENT OF THE)... ; BIOMET INVESTMENT CORP ; BOATNER LYNN A ; BRIAN GLASGOW MEMORIAL FOUNDATION ; BRIAN GLASGOW MEMORIAL FOUNDATION A CHARITABLE TRU ; UNITED STATES DEPARTMENT OF ENERGY AS US GOV ; US DEPARTMENT OF ENERGY AS US GOV ; UNITED STATES DEPARTMENT OF ENERGY US ; US DEPARTMENT OF ENERGY US ; ENERGY UNITED STATES DEPARTMENT OF ; THE UNITED STATES OF AMERICA AS REPRESENTED BY THE ; MARTIN MARIETTA ENERGY SYSTEMS INC ; BRIAN GLASGOW MEMORIAL FOUNDATION THE

Inventor(s):(std)**:** BOATNER LA ; LYNN ALLEN BOATNER ET BRIAN CRAIG SALES ; SALES BC ; UIRIAMU SHII MATSUKOI ; SALES BRIAN CRAIG ; BOATNER LYNN ALLEN ; SALES BRIAN C ; SALES B C ; BOATNER LYNN A ; BOATNER L A ; MCCOY WILLIAM C

Inventor(s): ALLEN BOATNER LYNN ; LYNN A BOATNER ; BRIAN C SALES ; BRIAN CRAIG SALES ; CRAIG SALES BRIAN ; LYNN ALLEN BOATNER

Agent(s): MEREDITH AND FINLAYSON; SMART AND BIGGAR

Designated states: AT BE CH DE ES FR GB IT LI NL SE

International class (IPC 8-9): A61B1/00 A61B1/005 A61B18/20 A61M25/00 A61M25/01 A61M25/092 B25J13/00 C03C3/16 G21F9/00 G21F9/30 H01H37/32 (Advanced/Invention);
H01H37/50 (Advanced/Non-invention);
C03C3/12 G21F9/30 (Core/Invention)

International class (IPC 1-7):	A61B1/00 A61B17/36 A61M25/00 A61M25/01 A61M37/00 B25J13/00 C03C3/16 C03C4/20 C03C6/00 C03C8/08 C03C8/10 G21F9/00 G21F9/16
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Classification Explorer

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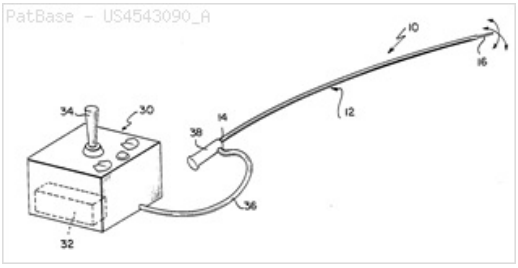
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Abstract:
Source: US4543090A A catheter and the like is steerable through cavities within a body and aimable toward organs or tissue within the body. The catheter includes an elongated tubular member having a proximal end and a distal end for insertion into the body and a plurality of temperature-activated memory elements in the distal end of the tubular member. Each memory element assumes a first shape when heated to a predetermined temperature and assumes. Each memory element is **coupled** to at least one other memory element so that movement of one element results in movement of the other element. Each memory element is moved to a second shape when the memory element **coupled** thereto is heated to the predetermined temperature. A control system adjacent the proximal end of the tubular member allows an operator to selectively control the temperature of each temperature-activated element to deflect the distal end of the tubular member so as to either direct the course of the tubular member or to direct the distal end of the tubular member toward an organ or tissue within the body. The control system includes a power supply source, electrical **connections** between the power supply source and the memory elements in the distal end of the tubular member, and a control **device** for selectively applying power to heat the memory elements to their predetermined temperatures to deflect the distal end of the tubular member so as to steer the tubular member or aim the distal end of the tubular member within the body.



55) Family number: 2330412 (US4581014A)

Title: **FLUID** INFUSION SYSTEM

Priority: AU19850042868 19850524 CA19850478099 19850402 SE19850002592 19850524 US19840596279 19840403

Family:

Publication number	Publication date	Application number	Application date
AU198542868 A1	19861127	AU19850042868	19850524
AU562433 B2	19870611	AU19850042868	19850524
CA1236360 A1	19880510	CA19850478099	19850402
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SE454747 B	19880530	SE19850002592	19850524
SE454747 C	19880922	SE19850002592	19850524
SE8502592 A	19861125	SE19850002592D	19850524
SE8502592 A0	19850524	SE19850002592	19850524
SE8502592 L	19861125	SE19850002592	19850524
US4581014 A	19860408	US19840596279	19840403

Probable Assignee: ALARIS MEDICAL SYSTEMS INC

Assignee(s):(std)**:** IVAC CORP

Assignee(s): CITICORP NORTH AMERICA INC ; IVAC MEDICAL SYSTEMS INC ; IVAC HOLDINGS INC ; IISBC BANK USA ; KLING JOHN E ; MILLERD DONALD L ; IVAC A CORP OF DE CORP ; AIBATSUKU CORP ; ALARIS MEDICAL INC ; ALARIS MEDICAL SYSTEMS INC ; ALPERT ROBERT S ; BANKERS TRUST CO

Inventor(s):(std)**:** ALPERT R S ; ALPERT ROBERT S ; DONARUDO ERU MIRAADO ; JIYON II KURINGU ; KLING J E ; KLING JOHN E ; MILLERD D L ; MILLERD DONALD L ; ROBAATO ESU ARUPAATO

Inventor(s): ROBERT S ALPERT ; R S ALPERT ; JOHN E KLING ; J E KLING ; D L MILLERD ; DONALD L MILLERD

Agent(s): GRIFFITH HACK; GOWLING LAFLEUR HENDERSON LLP; REINHOLD COHN AND PARTNERS

Designated states: CH DE FR GB LI

International class (IPC 8-9): A61M39/00 A61M39/22 A61M5/00 A61M5/14 (Advanced/Invention);
A61M39/00 (Advanced/Non-invention);
A61M (Subclass/Invention)

International class (IPC 1-7): A61M A61M5/00 A61M5/14 F16K11/085

CPC: A61M5/1409 A61M5/162 A61M39/223

European class: A61M39/22D A61M5/14B2 K61M5/162

US class: 604/248 604/80

Classification Explorer

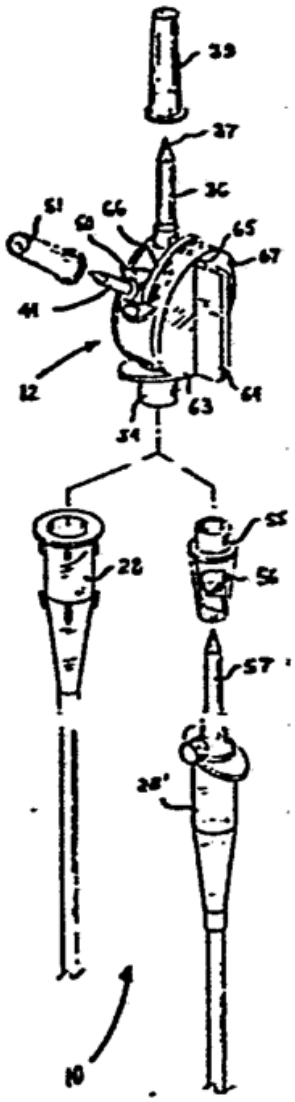
Cited documents: US4411662 A, US4410321 A, US4392851 A, US4392850 A, US4253501 A, US4236515 A, US4217894 A, US4211588 A, US4000742 A, US3976068 A, US3957082 A, US3949745 A, US3938520 A, US3831813 A, US3783895 A, US3369708 A, US3276472 A, US3254647 A, US3157201 A, US2999499 A, US2866457 A, US2538215 A, US1664046 A, JP57043750 A2, GB1555267 A, FR1104060 A, DD202390 A5,

Forward Citations: WO9106329, WO8800476, WO16139064, WO15154301, WO10146506, WO10140063, WO10140063, WO05049206, USD801522, USD767124, USD765837, USD757933, USD737436, USD734868, USD720451, USD634007, US9839580, US9801786, US9795536, US9339438, US9283324, US9132063, US8998875, US8979792, US8905994, US8905981, US8852145, US8821436, US8753325, US8752598, US8701696, US8684994, US8556869, US8551067, US8480634, US7887520, US7806851, US7754476, US7083597, US6296621, US6193672, US6070761, US5993412, US5893397, US5797907, US5553741, US5527332, US5505210, US5409013, US5374244, US5338292, US5306237, US5256160, US5250065, US5241990, US5203769, US5201705, US5116316, US5019054, US4832690, US4804366, US2012130347, US2011087164, US2010198167, US2010198154, US2008262465, US2008228057, US2008096192, US2007161946, US2005180880, US2004073189, US2004044306, US2003036725, JP2012529957, JP2009536563, ITTO20090455, GB2184204, EP0252892, CN102802696, CN102802696, AU611857, AU2010261417, AU2010261417,

Abstract:
Source: US4581014A A **fluid** infusion system includes a selector valve for convenient interruption of administration of a primary infusion **fluid** to a patient to permit administration of a secondary infusion **fluid**, such as a selected drug solution, followed by resumption of primary **fluid** flow. The selector valve includes a valve housing with a primary spike for **connection** to a primary **fluid** container, a dual path secondary spike for **connection** to a vial or the like containing the secondary infusion **fluid**, and an outlet fitting for **connection** to the patient, for example, through a standard intravenous (IV) infusion set. A valve insert is movably mounted within the valve housing and defines a **fluid** channel network for controlling flow from the primary and secondary spikes to the outlet fitting. In one form, the valve insert is movable between a first position routing the primary infusion **fluid** directly from the primary spike to the outlet fitting for supply to the patient, and a second position routing the primary infusion **fluid** through the secondary spike and the vial to wash the secondary infusion **fluid** therefrom through the outlet fitting for flow to the patient. In an alternative form, the valve insert is movable to an intermediate position for **coupling** the primary infusion **fluid** through the secondary spike to a vacuum vial for reconstituting, for example, a dried pharmaceutical therein without supply to the patient, after which the valve insert is movable to the second position permitting **fluid** flow from the vial to the outlet fitting. Upon completion of secondary infusion **fluid** administration, primary **fluid** administration resumes automatically by flow thereof through the vial and outlet fitting to the patient.

PatBase - US4581014_A

FIG. 1



56) Family number: 30865589 (US4781186A)

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Title: ATHERECTOMY **DEVICE** HAVING A FLEXIBLE HOUSING

Priority:
CA19850482665 19850529 EP19850303693 19850524 EP19890202513 19850524
US19870080342 19870731 US19870132675 19871214 US19840615298 19840530
US19840615298 19840530 US19850732691 19850510 US19850732691 19850510
US19890391636 19890807 US19890298846 19890118

Family:

Publication number	Publication date	Application number	Application date
AT137098 E	19960515	AT19850202513T	19850524
AT176751 E	19990315	AT19850106553T	19850524
AT54561 E	19900815	AT19850303693T	19850524
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US4781186 A	19881101	US19870080342	19870731
US4926858 A	19900522	US19890391636	19890807
US4979951 A	19901225	US19890298846	19890118

Probable Assignee: ADVANCED CARDIOVASCULAR SYSTEMS INC

Assignee(s):(std)**:** DEIBUAISHISU FOR BUASUKIYURAA ; SIMPSON JOHN B ; DEVICES VASCULAR INTERVENTION

Assignee(s): ADVANCED CARDIOVASCULAR SYSTEMS INC ; DEIBAISHISU FUOA UASUKYURAA INTAAUENSHON INC ; DEIBUAISHISU FOR BUASUKIYURAA INTAABUENSHIYON INC ; DEVICES FOR VASCULAR INTERVENTION INC ; DEVICES FOR VASCULAR INTERVENTION INC PALO ALTO CALIF US

Inventor(s):(std)**:** BROWN PETER S ; DAVIS TOMMY G ; GIFFORD III HANSON S ; JIYON BII SHIMUPUSON ; SIMPSON JOHN B ; SIMPSON JOHN BUSH ; THAPLIYAL HIRA

Inventor(s): SIMPSON JOHN BUSH WOODSIDE CALIFORNIA 94062 US ; JON BII SHIMUPUSON

Agent(s): SMART AND BIGGAR

Designated states: AT BE CH DE FR GB IT LI LU NL SE

International class (IPC 8-9): A61B17/00 A61B17/22 A61B17/32 A61F2/958 A61M25/10 A61M29/02 (Advanced/Invention); A61B10/00 A61B10/02 A61B10/04 A61B17/00 A61B19/00 A61F2/01 (Advanced/Non-invention)

International class (IPC 1-7): A61B17/00 A61B17/22 A61B17/32 A61B17/36 A61F17/32 A61M25/00 A61M29/02

CPC: A61B90/06 A61B2090/064 A61B2090/3933 A61M25/0138 A61M29/02 A61B10/0275 A61B2017/00845 A61B2017/00853 A61B2017/22052 A61B2017/22074 A61B2017/22075 A61F2/01 A61M25/1002 A61M2025/1093 A61B17/32075 A61B17/22031 A61B17/3205 A61M25/104 A61B10/04 A61B2017/22038 A61M25/10181 A61M25/10184 A61B17/320783 A61B17/320016

European class: A61B17/22E A61B17/3207P A61B17/3207S A61B17/32E A61M25/10E A61M25/10P A61M29/02 K61B10/02P6N K61B10/04 K61B17/00S4P K61B17/00S6 K61B17/22G K61B17/22H1 K61B17/22K2 K61B17/22K2M K61B19/46 K61B19/46H K61B19/54H K61F2/01 K61M25/01C10C K61M25/10A K61M25/10Z22

US class: 128/305 128/752 128/755 600/565 600/568 604/22 604/913 604/920 606/159 606/170 606/171

Classification Explorer

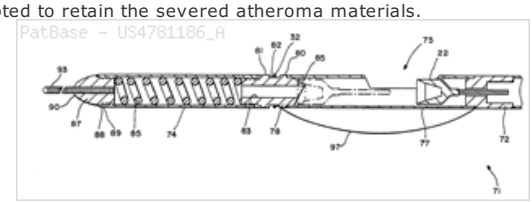
Cited documents: WO8200592 A1, WO8200408 A1, US4754755 A, US4732154 A, US4729763 A, US4696667 A, US4685458 A, US4669469 A, US4653496 A, US4648402 A, US4631052 A, US4627436 A, US4601710 A, US4598710 A, US4589412 A, US4513745 A, US4493321 A, US4448195 A, US4445892 A, US4295464 A, US4290427 A, US4274414 A, US4273128 A, US4246902 A, US4220155 A, US4137920 A, US4111207 A, US4040413 A, US4020847 A, US4011869 A, US3990453 A, US3844272 A, US3811448 A, US3749085 A, US3704711 A, US3614953 A, US3606878 A, US3561429 A, US3435826 A, US3173414 A, US2816552 A, US1677337 A, US1677209 A, US1167014 A, JP58146342 A2, JP54077493 A2, GB2044103 A1, FR1161400 A, EP0163502 A2, EP0086048 A2, DE2804015 A1, DE2453058 A1, DD67204 A,

Forward Citations: WO9958068, WO9934869, WO9922673, WO9853748, WO9851364, WO9823233, WO9743125, WO9502999, WO9319679, WO9314707, WO9221287, WO9217118, WO9207500, WO9207500, WO9112773, WO9101689, WO9101114, WO9000371, WO16138424, WO14022866, WO13080730, WO13071299, WO13071299, WO10045226, WO08021541, WO08021541, WO07139932, WO05084562, WO03004086, WO02070061, WO0139673, USRE43902, USRE43882, USRE36764, US9901706, US9861362, US9855072, US9855067, US9854979, US9839428, US9833599, US9833257, US9820770, US9820769, US9814862, US9808595, US9808277, US9801647, US9788854, US9788790, US9782172, US9775969, US9770259, US9763662, US9757137, US9750487, US9731099, US9724092, US9717520, US9700346, US9687267, US9687266, US9681870, US9675376, US9668767, US9662109, US9662097, US9649184, US9642646, US9642620, US9636139, US9636138, US9636127, US9615850, US9603619, US9597110, US9592363, US9592075, US9592035, US9586023, US9585662, US9579157, US9572492, US9561094, US9557156, US9549755, US9549735, US9549718, US9532844, US9532799, US9532797, US9526519, US9498604, US9498600, US9498247, US9492193, US9492192, US9486237, US9480494, US9463001, US9456844, US9456843, US9456807, US9445834, US9445784, US9433762, US9408998, US9408592, US9375234, US9375233, US9364200, US9345511, US9345510, US9345406, US9345398, US9333007, US9326789, US9314263, US9308016, US9301829, US9283066, US9283039, US9282992, US9282961, US9254143, US9247940, US9241734, US9241733, US9241716, US9220530, US9220529, US9204877, US9204866, US9192406, US9149602, US9125562, US9119706, US9119662, US9119661, US9119660, US9113955, US9113878, US9113847, US9107691, US9101382, US9095371, US9095325,

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Abstract:
Source: US4781186A An atherectomy **device** having a housing at the distal end of a catheter adapted for insertion into the vascular system. The housing has a cutout in one side, and a cutter that is mounted in the housing for both axial and rotary movement with respect to the cutout. At least a portion of the housing is formed of a material which permits bending of the housing as it follows the contours of the vessel. The housing is also adapted to retain the severed atheroma materials.



57) Family number: 15211139 (US4789000A)

Title: FLOW CONTROL **DEVICE** FOR ADMINISTRATION

Priority:
CA19850485747 19850627 US19840630632 19840713 US19870051129 19870601
US19870039946 19870420 US19870056129 19870601 US19870118438 19871109
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Family:

Publication number	Publication date	Application number	Application date
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AU198820738 A1	19890104	AU19880020738	19880601
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JP2744799 B2	19980428	JP19880505942	19880601
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KR19887000198 A	19880220	KR19867000148	19850708
KR19897001939 A	19891222	KR19897000165	19880601
KR940002805 B1	19940402	KR19860070148	19860313
KR940002805 B1	19940402	KR19860700148	19850708
KR960013788 B1	19961010	KR19890070165	19890130
KR960013788 B1	19961010	KR19890700165	19880601
NO860935 A	19860312	NO19860000935	19860312
US4789000 A	19881206	US19870118438	19871109
US4802506 A	19890207	US19870039946	19870420
US4807660 A	19890228	US19870056129	19870601
US5005604 A	19910409	US19890305078	19890202
US5113904 A	19920519	US19910639830	19910109
WO8600682 A1	19860130	WO1985US01287	19850708
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Probable Assignee: CONMED CORP

Assignee(s):(std)**:** ASLANIAN JERRY L ; MASTER MEDICAL CORP ; MASTER MEDICAL CORPARATION

Assignee(s): MASTER MEDICAL CORP PHOENIX ARIZ US ; MASUTAA MEDEIKARU CORP ; CHASE MANHATTAN BANK ADMINISTRATIVE AGENT AS ; CHASE MANHATTAN BANK AS ADMINISTRATIVE AGENT ; CONMED CORP

Inventor(s):(std)**:** ASLANIAN JERRY ; JERRY L ASLANIAN ; JERRY LASLANIAN ; ASLANIAN JERRY L

Inventor(s): ASLANIAN L JERRY PHOENIX AZ 85018 US ; ASURANIAN JERII ERU ; ASLANIAN JERRY L PHOENIX AZ 85018 US ; LASLANIAN JERRY ; ASLANIAN L

Agent(s): PHILLIPS ORMONDE FITZPATRICK; MCFADDEN FINCHAM; OSLER HOSKIN AND HARCOURT LLP

Designated states: AT AU BE CH DE DK FI FR GB IT JP KR LI LU NL NO SE

International class (IPC 8-9):
A61M5/00 A61M5/14 A61M5/168 F16K27/06 F16K3/08 F16K3/32 F16K35/00 F16K37/00 F16K47/04 F16K5/00 F16K5/02 F16K5/04 F16K5/10 F16K5/12 F16L55/00 (Advanced/Invention);
A61M5/00 A61M5/14 F16K37/00 F16L55/00 (Advanced/Non-invention);
A61M5/00 A61M5/14 A61M5/168 F16K27/06 F16K3/00 F16K3/02 F16K35/00 F16K37/00 F16K47/00 F16K5/00 F16L55/00 (Core/Invention)

International class (IPC 1-7):
A61M39/00 A61M39/22 A61M5/00 A61M5/14 A61M5/16 A61M5/168 A61M5/175 F16K27/00 F16K27/06 F16K3/00 F16K3/08 F16K3/26 F16K3/32 F16K31/60 F16K35/00 F16K35/10 F16K37/00 F16K47/04 F16K5/00 F16K5/02 F16K5/04 F16K5/10 F16K5/12 F16K5/16 F16L55/00 F16P1/00 G05D7/00 G05D7/01

CPC: A61M5/16877 F16K3/32 Y10S251/904 Y10T137/7062 Y10T137/8275 A61M2039/226 A61M5/16881

European class: A61M5/168F A61M5/168F1 F16K3/32 K61M39/22G

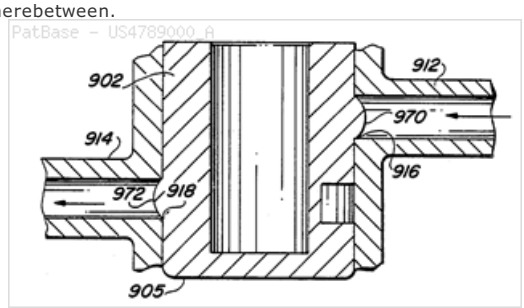
US class: 137/382 137/556 251/209 251/288 251/309 251/312 251/356 251/904 604/246 604/248 604/32 D24/129

Classification Explorer

Cited documents: WO8600682 A1, WO8505041 A1, US994409 A, US961959 A, US961950 A, US748720 A, US545769 A, US4802506 A, US4789000 A, US4471942 A, US4361147 A, US4352370 A, US4294246 A, US4256132 A, US4183499 A, US4177947 A, US4147184 A, US4146055 A, US4140297 A, US4079737 A, US3998227 A, US3980099 A, US3894662 A, US3880401 A, US3877428 A, US3807691 A, US3788602 A, US3788599 A, US3785378 A, US3783900 A, US3698683 A, US3540631 A, US3481367 A, US3475002 A, US3341168 A, US3325143 A, US3323774 A, US3305211 A, US3276472 A, US3012752 A, US2911008 A, US2854027 A, US2505124 A, US2197954 A, US2115675 A, US1690461 A, US1131480 A, JP53024932 B4, JP49011495 u1, JP43018709 Y1, JP39023480 Y1, FR2468049 A1, EP0012379 A1, DE3146541 A1, DE2735955 A1, AU572333 B2,

Forward Citations: WO9711729, WO9118632, WO9113641, WO9101155, WO9011168, WO8910148, WO16101860, WO15139573, WO13191365, WO12096903, WO12096903, WO08082126, WO06012769, WO06012769, WO06009369, WO03061725, WO03047660, USRE38189, USD801522, USD767124, USD765837, USD757933, USD744094, USD737436, USD735526, USD734868, USD720451, USD684689, USD680278, USD676551, USD675729, USD674088, USD669980, USD641080, USD633201, USD630732, USD621773, USD616984, USD609625, USD585985, USD566279, USD561348, USD548343, US9839748, US9839580, US9801786, US9795536, US9759335, US9700672, US9581251, US9545478, US9517330, US9492634, US9408966, US9371921, US9339438, US9283324, US9243640, US9186456, US9132063, US9114243, US8998875, US8979792, US8905994, US8852145, US8770227, US8753325, US8752598, US8690860, US8684994, US8632495, US8608723, US8556873, US8556869, US8540054, US8517055, US8499892, US8496029, US8491541, US8480634, US8435210, US8361024, US8317743, US8307854, US8158102, US8087638, US8070739, US8066688, US8057437, US8056578, US8052656, US8034028, US8029480, US8021325, US8016809, US7998109, US7975721, US7925330, US7921874, US7887520, US7879018, US7862535, US7802589, US7794423, US7766949, US7753883, US7753881, US7694693, US7690396, US7686041, US7662139, US7632261, US7632080, US7632078, US7604763, US7565918, US7562677, US7540303, US7510063, US7491197, US7462170, US7461968, US7427281, US7404417, US7361165, US7354190, US7326194, US7320339, US7313431, US7300453, US7299825, US7258139, US7214210, US7213618, US7211105, US7195037, US7172572, US7094253, US7048008, US7036528, US7028927, US7011651, US7004960, US6938644, US6935190, US6929236, US6929235, US6918893, US6916010, US6901283, US6776193, US6719779, US6709417, US6660028, US6644353, US6629546, US6585752, US6575937, US6572078, US6551279, US6508454, US6481986, US6464667, US6394980, US6379340, US6364857, US6270483, US6257847, US6213986, US6165154, US6024126, US5891096, US5829175, US5811349, US5772637, US5755683, US5730730, US5649810, US5601651, US5584671, US5531037, US5499968, US5472432, US5464043, US5443453, US5427140, US5364364, US5356376, US5324274, US5234413, US5201705, US5135026, US5117854, US5113904, US5104387, US5098408, US5046528, US5045068, US5014964, US4967797, US4925451, US4917687, US4880032, US2015316192, US2015137017, US2014323987, US2014257249, US2014053931, US2014026998, US2012259300, US2012215168, US2010313976, US2010249722, US2010228220, US2010211022, US2010204679, US2010204645, US2010198167, US2010198154, US2010198148, US2010154909, US2010112814, US2010108779, US2010082016, US2010030361, US2010025603, US2010004788, US2009199905, US2009177177, US2009171279, US2009143723, US2009114295, US2009099552, US2009082750, US2009078324, US2009062738, US2009025800, US2009014244, US2008275398, US2008097340, US2008041479, US2008041478, US2008017260, US2008011973, US2008009977, US2008009789, US2007293828, US2007270778, US2007267081, US2007224708, US2007167904, US2007157984, US2007138693, US2007135766, US2007088313, US2007085049, US2007034821, US2006272721, US2006272720, US2006200112, US2006157130, US2006118189, US2006070674, US2006006029, US2005278054, US2005267418, US2005263197, US2005224121, US2005224120, US2005096583, US2005095576, US2005095154, US2005095153, US2005095152, US2005095141, US2005094485, US2005094483, US2005092954, US2005065480, US2005005981, US2004261872, US2004225274, US2004199075, US2004176724, US2004168732, US2004140444, US2004112447, US2003209277, US2003135164, US2002087144, KR20120117736, KR20100094950, KR101817149, KR101794925, KR101772685, KR101674704, KR101674684, KR101650939, KR101409482, JP4117965, JP2016537081, JP2010057860, ITVR20090217, ITVI20100205, ITRE20110038, FR2833175, EP3068465, EP3011986, EP2578251, EP2578251, EP2476454, EP2218476, EP1480696, EP1455863, EP1455863, EP1450883, EP1415675, EP1230502, EP1053761, EP0968732, EP0825886, EP0621052, EP0621052, EP0552854, EP0414744, EP0318577, DE4340191, DE4232082, DE3700502, DE102016009115, DE102013212325, DE102010035735, CN105828853, CN105828853, CN104857598, CN104740724, CN104027869, CN102996839, CN102996839, CN101797419, AU657089, AU619754, AU2005264694, AU2003205156, AU2002359004,

Abstract:
Source: US4789000A A metering **apparatus** and system for controlling the administration of IV **fluids** having a valve housing with a valving chamber therein. A rotatable valve body member is positioned within the valve chamber and a valve passageway of variable cross-sectional area is provided at either the chamber or on the valve member. The effective area and length of the valve passageway interposed between the inlet and outlet to the valve is adjustable to regulate flow by moving the valve body relative to the valve member. Various accessories can be selectively attached to the basic valve configuration including a backplate which facilitates single-handed operation and an optional cover plate which may be secured to the backplate to provide security from patient tampering. In the preferred embodiment the valve housing and internal valve members are fabricated from dissimilar plastic materials of different hardness to improve the sealing therebetween.



58) Family number: 49933867 (US2003013765A)

Title: **Fluid** therapy with l-lactate and/or pyruvate anions

Priority:

AU19870067768 19861217	AU19900068558 19901228	EP19850903546 19850624
AU19940060669 19940422	CA19850484983 19850624	CA19860525695 19861218
EP19860309899 19861218	US19840623510 19840622	US19940179880 19940111
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Family:

Publication number	Publication date	Application number	Application date
AT80303 E	19920915	AT19860309899T	19861218
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EP0188529 A4	19881201	EP19850903546	19850624
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GR3006492 T3	19930621	GR19920402848T	19921209
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JP61502933 T2	19861218	JP19850502894	19850624
JP63502274 T2	19880901	JP19860500288	19861217
JP63502274 T2	19880901	JP19870500288	19861217
US2003013765 AA	20030116	US20020207114	20020730
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WO8600335 A1	19860116	WO1985US01203	19850624
WO8703808 A1	19870702	WO1986US02689	19861217

Probable Assignee: BTG INT LTD

Assignee(s):(std)**:** BTG INT LTD ; VEECH RICHARD L ; VEECH R L

Assignee(s): RICHARD L VEECH ; VEECH RL ; VEECH RICHARD L ROCKVILLE MD US ; VEECH RICHARD ; AMERICAN BIO SAFE FLUIDS LLC ; BRITISH TECHNOLOGY GROUP LTD ; BTG INT ; BTG INTERNATIONAL LIMITED ; BTG INTERNATIONAL LTD ; BTG INTERNATIONAL LTD LONDON

Inventor(s):(std)**:** VEECH RICHARD L

Inventor(s): VEECH RL ; BTG INTERNATIONAL LIMITED ; RICHARD L VEECH ; VEECH RICHARD

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; SMART AND BIGGAR; NIXON AND VANDERHYE PC

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

International class (IPC 8-9): A61K31/19 A61K31/56 A61K31/65 A61K31/66 A61K31/70 A61K33/00 A61K33/06 A61K33/10 A61K33/14 A61M1/00 A61M1/16 A61M1/28 C12N5/00 C12N5/06 C12N9/00 (Advanced/Invention);
A61M1/00 (Advanced/Non-invention);
A61K31/185 A61K31/56 A61K31/65 A61K31/66 A61K31/70 A61K33/00 A61K33/06 A61K33/14 A61M1/00 A61M1/16 A61M1/28 C12N5/00 C12N5/06 (Core/Invention)

International class (IPC 1-7): A01N59/08 A23L1/30 A61K31/19 A61K31/195 A61K31/215 A61K31/22 A61K31/70 A61K33/00 A61K33/02 A61K33/10 A61K33/14 A61M1/14 C12N5/00 C12N9/00

CPC: C12N5/0018 C12N2500/12 A61K31/19 A61M1/287 A61K33/06 A61K33/10 A61K33/00 A61K33/14 A61M1/1654

European class: A61K31/19 A61K33/00 A61K33/06 A61K33/10 A61K33/14 A61M1/16D A61M1/28D C12N5/00M M12N500/12

US class: 424/146 424/153 424/663 424/677 424/677P 424/678 424/679 424/680 424/681 424/682 424/686 424/687 424/719 514/23 514/529 514/546 514/557 514/561 514/572 514/578

Classification Explorer

Cited documents: WO8600335 A1, WO8600239 A1, WO8600228 A1, WO8600227 A1, US6020007 A, US5292774 A, US5100677 A, US4771074 A, US4663166 A, US4579955 A, US4489535 A, US4473647 A, US4447415 A, US4443546 A, US4443432 A, US4404192 A, US4363815 A, US4351835 A, US4308255 A, US4282326 A, US4186253 A, US4067999 A, US4061537 A, US3993751 A, US3993750 A, US3978212 A, US3970750 A, US3821368 A, US3122476 A, US30985 A, EP0161472 A2, EP0161471 B1, EP0108820 A1,

Forward Citations: WO9841218, WO9200745, WO9114435, WO8607377, WO08150399, WO08089776, WO07011905, WO04096204, WO04014355, WO0045873, WO0028985, USRE38604, USRE36418, US9895395, US9827265, US9585810, US9456970, US9216247, US9186340, US9180069, US9161949, US9149450, US8864699, US8835508, US8795517, US8728532, US8557301, US8529486, US8435590, US8328784, US8158157, US8153164, US8105809, US8105258, US8101653, US8052631, US8013017, US7993690,

US7985212, US7947736, US7943292, US7935070, US7862530, US7837666, US7758900, US7754247, US7670491, US7625586, US7589059, US7503913, US7485743, US7445801, US7186420, US7122210, US7122210, US7029698, US7019035, US7011855, US6991624, US6846842, US6743191, US6680305, US6627393, US6610206, US6544561, US6506549, US6475529, US6444418, US6417231, US6410218, US6406839, US6399110, US6387612, US6328997, US6323237, US6316038, US6309673, US6300322, US6284452, US6218099, US6207856, US6110504, US6080538, US6048553, US6020007, US5968726, US5945272, US5863938, US5856364, US5798388, US5747071, US5733894, US5723281, US5719119, US5719050, US5698536, US5692302, US5674912, US5663208, US5658957, US5658956, US5652274, US5648380, US5646190, US5641814, US5633285, US5631243, US5631025, US5629025, US5614561, US5602183, US5589197, US5420335, US5366722, US5328681, US5328680, US5310768, US5292774, US5226901, US5211643, US5210098, US5209724, US5182299, US5149320, US5112865, US5015389, US4970143, US4938970, US4832684, US4668400, US4663289, US4663166, US4649050,
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Abstract:
Source: US2003013765A Electrolyte solutions are provided which are useful in electrolyte and **fluid** therapy, parenteral nutrition and dialysis. The Na:Cl ratio is normalized, plasma and cellular pH are normalized and cellular cofactor ratios are normalized in a manner which decreases toxicity over prior art solutions.

59) Family number: 9049446 (US4568333A)

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Title: VALVE ARRANGEMENT ESPECIALLY SUITABLE FOR PREVENTING INTRODUCTION OF AIR INTO VASCULAR SYSTEMS

Priority: CA19860500839 19860131 CA19880583048 19881114 US19870050589 19870515 US19830484205 19830412 US19860818434 19860113 US19830511256 19830706 US19880269829 19881110 US19870053495 19870511

Family:

Publication number	Publication date	Application number	Application date
CA1257162 A1	19890711	CA19860500839	19860131
CA1326420 A1	19940125	CA19880583048	19881114
EP0258219 A1	19880309	EP19860901174	19860127
EP0258219 A4	19881123	EP19860901174	19860127
US4568333 A	19860204	US19830511256	19830706
US4684364 A	19870804	US19830484205	19830412
US4722725 A	19880202	US19870053495	19870511
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Probable Assignee: INTERFACE BIOMEDICAL LABORATORIES CORP 7600 RIDGE BOULEVARD BROOKLYN

Assignee(s):(std)**:** SAWYER PHILIP NICHOLAS ; FITZGERALD JOSEPH ; FITZGERALD JOSEPH F ; INTERFACE BIOMEDICAL LAB CORP ; INTERFACE BIOMEDICAL LAB INC

Assignee(s): INTERFACE BIOMEDICAL LABORATORIES CORP ; SAWYER PHILIP N ; INTERFACE BIOMEDICAL LABORATORIES INC ; INTERFACE BIOMEDICAL LABORATORIES CORP A CORP OF N ; INTERFACE BIOMEDICAL LABORATORIES CORP 7600 RIDGE ; MILLER LESTER F ; INTERFACE BIOMEDICAL LABORATORIES CORP A CORP OF NEW YORK ; INTERFACE BIOMEDICAL LABORATORIES CORP 7600 RIDGE BOULEVARD BROOKLYN

Inventor(s):(std)**:** FITZGERALD JOSEPH ; FITZGERALD JOSEPH F ; MILLER LESTER F ; SAWYER PHILIP N ; SAWYER PHILIP NICHOLAS

Agent(s): OSLER HOSKIN AND HARCOURT LLP

Designated states: DE FR GB IT

International class (IPC 8-9): A61M1/00 A61M1/36 A61M25/00 A61M39/06 A61M39/10 A61M5/00 A61M5/158 A61M5/36 F16L29/00 (Advanced/Invention);
A61M39/22 (Advanced/Non-invention);
A61M1/00 A61M1/36 A61M39/00 A61M39/02 A61M5/00 A61M5/14 A61M5/36 (Core/Invention);
A61M39/00 (Core/Non-invention)

International class (IPC 1-7): A61M1/00 A61M25/00 A61M5/00 F16L29/00

CPC: Y10S128/12 A61M1/3659 A61M1/008 A61M1/3621 A61M1/3655 A61M5/1582 A61M39/0606 Y10T137/7879 Y10T137/7771 A61M39/228 Y10T137/7896 A61M5/36

European class: A61M1/00T A61M1/36C A61M39/06B A61M5/158B A61M5/36 K61M1/36C7A K61M1/36C7D K61M39/22H3

US class: 128/DIG.12 137/493 137/843 137/860 251/5 604/122 604/123 604/129 604/151 604/167 604/167.03 604/169 604/198 604/247 604/250 604/27 604/44 604/53

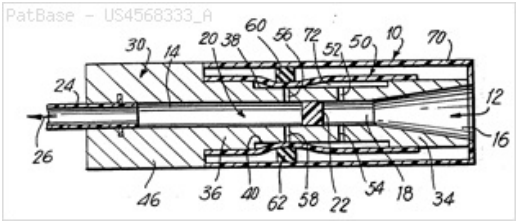
Classification Explorer

Cited documents: US605693 A, US4722725 A, US4684364 A, US4571241 A, US4568333 A, US4540027 A, US4535818 A, US4535773 A, US4515589 A, US4502502 A, US4501531 A, US4496350 A, US4468224 A, US4385631 A, US4336800 A, US4324239 A, US4303100 A, US4300552 A, US4245635 A, US4243034 A, US4134402 A, US4126132 A, US4111047 A, US4108175 A, US4103689 A, US4103686 A, US4096860 A, US4062360 A, US3991768 A, US3967645 A, US3888249 A, US3833013 A, US3769982 A, US3717174 A, US3687365 A, US3672372 A, US3572375 A, US3543752 A, US3469582 A, US3441245 A, US3324877 A, US3298391 A, US3097646 A, US2988103 A, US2786642 A, US220559 A, US1696018 A, SU555251 T, SU509746 T, GB1510191 A, FR592193 A, FR2482240 A1, EP0165740 A2, DE2513490 A1, CA1052659 A1,

Forward Citations: WO9823353, WO9322530, WO9316742, WO9310831, WO9005553, WO9001352, WO14039633, WO04050013, WO04050013, WO0178591, USRE34243, US9895524, US9883834, US9872971, US9861792, US9855377, US9795731, US9782549, US9757540, US9675784, US9616201, US9616185, US9597483, US9522254, US9486590, US9447892, US9408971, US9408964, US9370641, US9364603, US9314590, US9283351, US9278188, US9211377, US9168105, US9149626, US9149625, US9108033, US9101737, US9089673, US9084858, US9078998, US9056008, US9044541, US9017281, US8986253, US8932469, US8932260, US8926564, US8926561, US8920378, US8882745, US8852168, US8845752, US8834719, US8834403, US8808367, US8807169, US8801656, US8795256, US8790307, US8771229, US8764425, US8758323, US8753320, US8720065, US8679074, US8663538, US8650937, US8647569, US8622971, US8617138, US8608702, US8597249, US8591468, US8585968, US8585660, US8540728, US8540685, US8529523, US8523840, US8523821, US8506528, US8486137, US8475521, US8470024, US8460247, US8454574, US8448824, US8444587, US8419688, US8408421, US8403982, US8403890, US8382711, US8377011, US8353953, US8348893, US8337484, US8337470, US8337463, US8333735, US8329030, US8328768, US8328762, US8323492, US8313469, US8308691, US8298184, US8287495, US8257321, US8231604, US8221529, US8206376, US8187234, US8177771, US8177770, US8123947, US8114276, US8114154, US8083728, US8080091, US8070799, US8070731, US8057539, US8056582, US8029491, US8025716, US8025714, US7993392, US7988768, US7988664, US7963943, US7951206, US7951121, US7931619, US7927544, US7892332, US7892331, US7883502, US7875019, US7871462, US7867222, US7854731, US7736339, US7736332, US7678154, US7637893, US7578803, US7530938, US7513396, US7479131, US7435231, US7410602, US7384783, US7306129, US7291180, US7097690, US7094218, US7037345, US6991614, US6964798, US6960180, US6945950, US6881790, US6849069, US6814725, US6719804, US6656146, US6641558, US6641556, US6620202, US6595966, US6528173, US6416506, US6409967, US6399704, US6391404, US6332892, US6297046, US6280423, US6202901, US6171484, US6117342, US6079449, US6056522, US6051134, US6024220, US6010623, US6010495, US5989223, US5980741, US5976300, US5976103, US5935847, US5854347, US5833662, US5817074, US5814025, US5807342, US5797899, US5772409, US5707351, US5693387, US5686527, US5588640, US5562638, US5542936, US5489274, US5450645, US5439448, US5425173, US5421825, US5417663, US5401255, US5399171, US5397310, US5360399, US5315728, US5312352, US5300035, US5282790, US5269771, US5224934, US5186715, US5167636, US5120299, US5098406, US5092855, US5041087, US5019039, US4981472, US4935010, US4919167, US4883461, US4877025, US4863437, US4856499, US4846810, US4722731, US4722725, US4661096, US2013296783, US2013150767, US2013066276, US2011308650, US2011224627, US2011144557, US2011137237, US2011137236, US2011118612, US2011112375, US2011098679, US2011098653, US2011092895, US2011087093, US2010331823, US2010292784, US2010292783, US2010292782, US2010249707, US2010222747, US2010204675, US2010191192, US2010101657, US2010101069, US2010036327, US2010032041, US2009292252, US2009247961, US2009217982, US2009204078, US2009177163, US2009131870, US2009105652,

US2009101576, US2009088675, US2009084721, US2009084719, US2009084718, US2009069889, US2009069887, US2008262507, US2008147181, US2008147160, US2008065015, US2007173777, US2007161940, US2007123825, US2007020142, US2006184139, US2006149293, US2006149214, US2006149189, US2006122707, US2006083717, US2005288638, US2005271631, US2005261664, US2005209584, US2005209572, US2005209568, US2005171510, US2005171490, US2005171489, US2005113805, US2005077225, US2005027261, US2005003942, US2004260271, US2004186552, US2004122414, US2004092857, US2004073167, US2004059428, US2004059279, US2003204179, US2003191453, US2003176847, US2003077466, US2002177803, US2002110484, JP2007500039, EP1032439, EP0640165, EP0258219, EP0258219,

Abstract:
Source: US4568333A A flow control **device** which consists of a tubular body having radial sets of orifices therein covered by a resilient member which defines an annular space to which the orifices are **connected**. The resilient member permits positive pressure to drive **fluid** through the orifices but prevents negative pressure from sucking air through the orifices. A spring urges the resilient member against one of the sets of orifices.



60) Family number: 30555466 (US4569355A)

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Title: Method and **apparatus** for monitoring and diagnosing peripheral blood flow

Priority: US19820383004 19820528 US19840673509 19841119 WO1985US02266 19851118
US19880673509 19881119 US19850709093 19850307 US19870064870 19870619
WO1988US02118 19880617 WO1986US00497 19860307

Family:

Publication number	Publication date	Application number	Application date
AU198651907 A1	19860618	AU19860051907	19851118
AU198656243 A1	19860924	AU19860056243	19860307
AU198819851 A1	19890119	AU19880019851	19880617
EP0204815 A1	19861217	EP19860900363	19851118
EP0204815 A4	19880608	EP19860900363	19851118
EP0216857 A1	19870408	EP19860902151	19860307
EP0216857 A4	19900626	EP19860902151	19860307
JP62501479 T2	19870618	JP19850505417	19851118
JP63500565 T2	19880303	JP19860502160	19860307
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US4756310 A	19880712	US19840673509	19841119
US4867344 A	19890919	US19870064870	19870619
US4869250 A	19890926	US19850709093	19850307
WO8603118 A1	19860605	WO1985US02266	19851118
WO8605088 A1	19860912	WO1986US00497	19860307
WO8810216 A1	19881229	WO1988US02118	19880617

Probable Assignee: THERMACOR TECHNOLOGY INC

Assignee(s):(std)**:** HEMODYNAMICS TECHN INC ; HEMODYNAMICS TECHNOLOGY INC ; THERMACOR TECHNOLOGY INC

Assignee(s): HEMODYNAMICS TECHNOLOGY INC (HEMODYANICS) ; HEMODYNAMICS TECHNOLOGY INC A CORP OF NE

Inventor(s):(std)**:** BITTERLY JACK G ; JACK G BITTERLY

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD

Designated states: AT AU BE BR CH DE DK FR GB IT JP LI LU NL NO SE

International class (IPC 8-9): A41D13/005 A42B3/28 A61B5/026 A61B5/103 A61F7/00 A61F7/02 A61F7/10 B65D83/14 G05D23/19 (Advanced/Invention);
A61B5/026 A61F7/00 A61F7/02 (Advanced/Non-invention);
A41D13/005 A42B3/04 A61F7/00 B65D83/14 (Core/Invention);
A61F7/02 (Core/Non-invention)

International class (IPC 1-7): A61B5/02 A61F7/00 A61F7/10 B65D35/28 B67D5/00 B67D5/42

CPC: A41D13/0053 A42B3/285 A61F7/10 A61F2007/0051 A61F2007/0057 A61F2007/0058 A61F2007/0274 A61B5/026 A61B5/441 A61F7/00 A61F2007/0093 G05D23/1919 B65D83/62

European class: A41D13/005C A42B3/28C A61B5/026 A61B5/44B A61F7/00 A61F7/10 B65D83/62 G05D23/19E K61F7/00A7 K61F7/00C2A K61F7/00C2B K61F7/00P K61F7/02P4S

US class: 128/400 128/691 222/105 222/131 222/386.5 222/389 222/399 222/94 222/95 239/323 600/504 607/104 607/107 607/114 62/48.1 D24/186

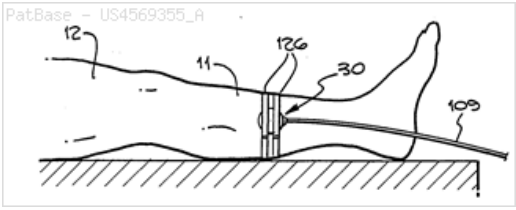
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Cited documents: WO8404883 A1, US4573327 A, US4569355 A, US4563879 A, US4548053 A, US4527715 A, US4523594 A, US4495988 A, US4483341 A, US4483021 A, US4459825 A, US4440319 A, US4430078 A, US4364398 A, US4348873 A, US4336695 A, US4334519 A, US4332136 A, US4295339 A, US4228805 A, US4202470 A, US4196751 A, US4191197 A, US4175543 A, US4174619 A, US4170998 A, US4159790 A, US4129432 A, US4085749 A, US4026299 A, US3995621 A, US3992003 A, US3967627 A, US3933149 A, US3896970 A, US3894213 A, US3882687 A, US3877463 A, US3823575 A, US3640277 A, US3587577 A, US3479838 A, US3417901 A, US3245582 A, US3216492 A, US30317 A, US2982132 A, US2815152 A, US270810 A, US2551650 A, JP55044112 A2, EP0157962 A1,

Forward Citations: WO9220309, WO8605088, WO11104403, WO05112675, WO03078596, WO03078596, WO0148341, WO0100269, USD777338, USD740959, US9885129, US9861520, US9861421, US9844461, US9844460, US9737434, US9733130, US9730590, US9717896, US9672471, US9655770, US9649220, US9622519, US9545523, US9486333, US9408745, US9375345, US9358149, US9314368, US9308120, US9132031, US9121642, US9116082, US8955168, US8915862, US8870813, US8840608, US8834547, US8702774, US8676338, US8636670, US8603073, US8585602, US8551008, US8529613, US8523927, US8454671, US8449475, US8435230, US8409132, US8403881, US8337539, US8317776, US8285390, US8280484, US8275442, US8196224, US8192474, US8163000, US8157794, US8043351, US8043283, US7998182, US7951183, US7950920, US7937775, US7857781, US7854754, US7842007, US7766949, US7682317, US7651518, US7621945, US7507250, US7497832, US7491223, US7481809, US7473251, US7452358, US7449018, US7422600, US7411337, US7371254, US7367341, US7351254, US7311725, US7300453, US7291144, US7288089, US7284904, US7267675, US7229436, US7211105, US7189254, US7189230, US7179279, US7150299, US7141049, US7115123, US7101386, US7094253, US7087075, US7077002, US7066948, US7063718, US7059767, US7056282, US7052509, US7052508, US7022121, US7018399, US7013916, US7008445, US7006874, US7004960, US7001378, US6991645, US6962600, US6905509, US6905494, US6890096, US6887262, US6877318, US6869440, US6843800, US6830581, US6818011, US6786218, US6755850, US6749624, US6740109, US6726708, US6719779, US6702842, US6695873, US6692488, US6685732, US6676690, US6676689, US6676688, US6660028, US6648908, US6648021, US6602276, US6599312, US6585752, US6582455, US6576002, US6576001, US6574963, US6558412, US6551349, US6540771, US6533804, US6527009, US6491716, US6491039, US6482226, US6481642, US6478812, US6478811, US6475231, US6471717, US6468296, US6464716, US6430446, US6389835, US6379378, US6367263, US6352550, US6350276, US6325818, US6312453, US6312452, US6277143, US6261312, US6254626, US6251130, US6251129, US6245095, US6238428, US6235048, US6234352, US6231595, US6224624, US6176869, US6149677, US6117164, US6096068, US6030412, US6012453, US5991654, US5967415, US5915595, US5913885, US5845500, US5775590, US5622056, US5620140, US5535951, US5449379, US5277015, US5261399, US5191895, US5143390, US5054651, US5009340, US4998415, US4819655, US4739771, US2015238330, US2015230974, US2015119962, US2014334517, US2013274896, US2012216341, US2011047668, US2011046494, US2010145168, US2010056964, US2010036269, US2010036268, US2010036263, US2010036209, US2010016733, US2009318802, US2009292222, US2009292214, US2009292212, US2009292195, US2009287191, US2009287120, US2009287110, US2009287109, US2009287101, US2009287094, US2009287093, US2009287076, US2009284378, US2009281413, US2009281412, US2009163856, US2009157171, US2009157058, US2009157057, US2009157056, US2009157055, US2009157054, US2009156988, US2009136881,

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Abstract:
Source: US4569355A A heat exchanger changes the temperature of a predetermined area of the skin at a programmed rate preferably by cooling. The rate at which the area of skin changes in response to temperature change of the heat exchanger and the rate the skin temperature returns to normal are then measured and compared to standard rates over a number of cycles. Impaired peripheral blood flow is evident especially on subsequent cycles as vascular disease slows the rate of return to normal temperature of the skin. The heat exchanger has a cooling chamber with one side of the chamber being a cooling surface adjacent to the skin. An **injector** is **connected** to a source of **fluid** having a boiling point at ambient pressure less than the temperature to which the skin is to be cooled and greater than ambient temperature of the **apparatus**. The **injector** **injects** **fluid** into the chamber and onto the side of the cooling surface opposite the skin to boil the **fluid** on the surface to cool the surface and the skin.



61) Family number: 29423597 (US4569344A)

Title: ASPIRATING/VENTILATING **APPARATUS** AND METHOD

Priority:

US19840633570 19840723	US19850767400 19850820	US19860916341 19861007
US19890413791 19890928	US19880179800 19880411	US19870049376 19870514
US19900484589 19900223	US19870028805 19870323	US19860917866 19861014
US19910682165 19910405	US19940275066 19940713	US19910730743 19910716
US19910679703 19910403	US19950413749 19950330	US19930061131 19930513

Family:

Publication number	Publication date	Application number	Application date
US4569344 A	19860211	US19840633570	19840723
US4638539 A	19870127	US19850767400	19850820
US4696296 A	19870929	US19860916341	19861007
US4836199 A	19890606	US19870049376	19870514
US4872579 A	19891010	US19880179800	19880411
US5215522 A	19930601	US19910682165	19910405
US5277177 A	19940111	US19910730743	19910716
US5611336 A	19970318	US19950413749	19950330
US5664564 A	19970909	US19940275066	19940713

Probable Assignee: KIMBERLY CLARK WORLDWIDE INC

Assignee(s):(std)**:** BALLARD MED PROD

Assignee(s): BALLARD MEDICAL PRODUCTS ; BALLARD MEDICAL PRODUCTS 6864 SOUTH 300 WEST MIDVA ; BALLARD MEDICAL PRODUCTS A CORP ; BALLARD MEDICAL PRODUCTS A CORP OF UTAH ; BALLARD MEDICAL PRODUCTS INC ; KIMBERLY CLARK WORLDWIDE INC ; PALMER DARREL ; MORGAN STANLEY SENIOR FUNDING INC

Inventor(s):(std)**:** PALMER DARREL ; PAGE LARRY E ; PAGE LARRY

International class (IPC 8-9): A61M1/00 A61M16/04 (Advanced/Invention);
A61M1/00 A61M25/01 (Advanced/Non-invention);
A61M16/04 (Core/Invention);
A61M1/00 A61M25/01 (Core/Non-invention)

International class (IPC 1-7): A61M1/00 A61M16/00 A62B9/02 B21D53/00

CPC: Y10S128/91 Y10S137/903 A61M1/0086 A61M16/0463 A61M1/0043 A61M16/0465 A61M25/0111 Y10T29/49412 Y10T29/4987 Y10T29/49904 Y10T137/7913

European class: A61M1/00H10B2 A61M16/04D K61M1/00H10B2 K61M1/00T4 K61M16/04D K61M16/04E K61M25/01C2

US class: 128/200.26 128/205.16 128/205.19 128/205.24 128/207.12 128/207.14 128/207.15 128/207.16 128/910 137/533.17 137/903 251/318 251/331 251/335.2 251/336 251/95 29/157R 29/450 29/469 29/890.124 604/118 604/119 604/163 604/167 604/171 604/241 604/33 604/35

Classification Explorer

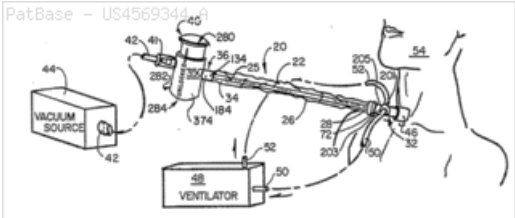
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Abstract:
Source: US4569344A A ventilating and aspirating assembly comprising an aspirating catheter tube internally disposed within and coextensive with a surrounding flexible collapsible sterility preserving film envelope, a connector by which ventilating air is involuntarily delivered to and exhausted from the lungs of a **medical** patient, said connector comprising structure which accommodates the manual insertion of the catheter tube into and manual removal from the trachea/bronchi patient through the connector. This facilitates aspiration of undesired respiratory **fluids**. The assembly further comprises a detachable **connection** site for one end of the envelope to the connector and a valve by which aspirating vacuum pressure is selectively communicated to the interior of the catheter tube for evacuation of said respiratory **fluids**, the valve comprising structure isolating the vacuum pressure from the atmosphere, structure by which the valve is placed in either of a locked and an unlocked condition and structure normally biasing and sealing the valve in a closed position, but accommodating manual displacement counter to the bias into an unsealed open position whereby, with the catheter tube indwelling in the lungs of the patient, the vacuum pressure causes evacuation of **fluid** from the patient's respiratory system through the catheter tube, and a detachable **connection** site for the other end of the envelope to the valve.



62) Family number: 11385916 (US4848339A)

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Title: LASER HEATED INTRAVASCULAR CAUTERY CAP ASSEMBLY

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Family:

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Probable Assignee: XINTEC CORP

Assignee(s):(std)**:** COHEN HOWARD S ; JINTETSUKU CORP ; RINK DAN L ; RINK JOHN L ; XINTEC CORP

Assignee(s): XINTEC 900 ALICE STREET OAKLAND CALIFORNIA 94607 A ; XINTEC A CORP OF CALIFORNIA CORP

Inventor(s):(std)**:** LEE GARRETT ; RINK DAN L ; RINK JOHN L ; COHEN HOWARD S ; RINK JOHN ; RINK DAN ; GIYARETSUTO RII

Inventor(s): GARRETT LEE ; JOHN L RINK ; XINTEC CORP

Designated states: AT AU BE CA CH DE DK ES FR GB IT JP KR LU NL NO SE SU

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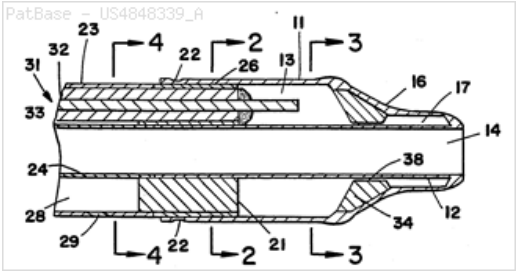
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Forward Citations: WO9925259, WO9902113, WO9858588, WO9639734, WO9609742, WO9312728, WO9214514, WO9118646, WO9004949, WO8803005, WO17025423, WO17011542, WO14070699, WO11162801, WO11143663, WO10053575, WO10014224, WO10014224, WO09115952, WO09111046, WO09111046, WO09027144, WO07126999, WO06127330, WO05004750, WO04020142, WO04020142, WO04014224, WO03048835, WO03048835, WO03009767, WO03007833, WO0189437, WO0189437, USRE40863, USRE40403, USRE37585, US9883885, US9867523, US9861362, US9833357, US9828313, US9820883, US9820809, US9782172, US9780518, US9759616, US9744622, US9662514, US9662109, US9642746, US9603741, US9522040, US9366577, US9364200, US9345543, US9333371, US9314303, US9283039, US9282961, US9281653, US9259270, US9247940, US9241716, US9216059, US9204877, US9130344, US9125677, US9114482, US9113878, US9113847, US9078680, US9078654, US9033868, US9028536, US9022037, US9017371, US8974444, US8956343, US8934511, US8926601, US8915948, US8862209, US8858589, US8845665, US8831710, US8812086, US8758333, US8752748, US8740932, US8696552, US8690913, US8685017, US8685012, US8679089, US8638428, US8628467, US8619357, US8616709, US8540733, US8523890, US8518074, US8512359, US8498538, US8485818, US8459523, US8435236, US8414568, US8398622, US8372072, US8366706, US8360579, US8359924, US8357144, US8356923, US8353440, US8342379, US8313480, US8292888, US8272554, US8262560, US8232687, US8229549, US8186559, US8177365, US8156811, US8150271, US8139910, US8135050, US8132460, US8130381, US8118208, US8056791, US8056786, US8033825, US8025199, US8021373, US8016858, US8016855, US7992758, US7963433, US7951071, US7931645, US7918230, US7845538, US7824395, US7770454, US7758613, US7751870, US7743960, US7735377, US7695485, US7537602, US7509876, US7481809, US7473251, US7452358, US7413572, US7253575, US7220256, US7169140, US7114642, US7113675, US7113675, US7077856, US7063695, US7056318, US7032798, US6981941, US6962585, US6932809, US6857276, US6849071, US6846309, US6846308, US6846307, US6843403, US6817998, US6793652, US6792013, US6770069, US6767320, US6762866, US6743221, US6716233, US6716230, US6698643, US6681979, US6661820, US6595987, US6586751, US6575964, US6547780, US6538739, US6533157, US6517565, US6511422, US6505768, US6491201, US6488197, US6454791, US6454761, US6443973, US6421475, US6413267, US6393673, US6344051, US6341009, US6328732, US6322555, US6315184, US6224589, US6221068, US6159203, US6135995, US6110167, US6080148, US6063085, US6048349, US6024738, US6022309, US6011563, US5993439, US5984919, US5946332, US5908416, US5897551, US5876426, US5860972, US5843073, US5830209, US5827267, US5810810, US5807389, US5776127, US5746737, US5707368, US5700260, US5692004, US5689520, US5674217, US5662643, US5657760, US5656186, US5643251, US5632739, US5624435, US5599347, US5562658, US5554153, US5540684, US5540676, US5537499, US5520664, US5514128, US5514126, US5507744, US5507742, US5498935,

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Abstract:
Source: US4848339A An improved laser heated intravascular cautery cap construction includes a generally cylindrical outersidewall, and a tappered, annular, distal end wall joining the two sidewalls and defining a closed annular space therebetween. A bore extending axially through the inner sidewall is dimentioned to receive in freely sliding fashion an arterial guidewire or other **device** such as a doppler flow sensor or an optical bundle for viewing. A unitary or multi-segment annular target element is received within the distal portion of the annular space, and is secured to the outer sidewall adjacent to the end wall with a gap defined between the target element and the inner sidewall. A plurality of holes extend through a connector member parallel to the axis of the sidewalls, each hole receiving therethrough one of a plurality of optical fibers extending through the arterial catheter to a laser light source. Each fiber is aimed at one segment or portion of the target element, so that the fibers may be illuminated selectively to heat the respective portion or segment and the adjacent outer sidewall and distal end wall portions. The air gap defined between the target disc segments and the inner sidewall prevents conduction to the inner sidewall. In a further embodiment, the inner sidewall is **lined** with a sleeve to further limit heating of the arterial guidewire extending therethrough.



63) Family number: 8999658 (US4638163A)

Title: Method and **apparatus** for reading thermoluminescent phosphors

Priority:

CA19850490977 19850918	CA19890613983 19890928	EP19850201483 19850917
EP19850201483 19850917	CA19890615267 19890929	CA19890615283 19890929
US19860897992 19860819	US19890365180 19890612	US19890365179 19890612
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US19890336015 19890410	US19890343000 19890424	WO1990US01891 19900409
US19890371553 19890626	US19890371555 19890626	US19910692171 19910426

Family:

Publication number	Publication date	Application number	Application date
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US5124993 A	19920623	US19890365179	19890612
WO9012331 A1	19901018	WO1990US01891	19900409

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Agent(s): RICHES MCKENZIE AND HERBERT LLP

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

International class (IPC 8-9): G01T1/02 G01T1/105 G01T1/11 G01T1/115 (Advanced/Invention);
A61N5/10 (Advanced/Non-invention);
G01T1/02 (Core/Invention);
A61N5/10 (Core/Non-invention)

International class (IPC 1-7): G01T1/02 G01T1/10 G01T1/105 G01T1/11 G01T1/115 G01T3/06 H01S3/13

CPC: G01T1/02 A61N5/1048 Y10S250/02 G01T1/115 G01T1/105 G01T1/11

European class: G01T1/02 G01T1/105 G01T1/11 G01T1/115 K61N5/10E

US class: 250/327.2 250/337 250/354.1 250/358.1 250/368 250/390.03 250/458.1 250/482.1 250/484.1 250/484.3 250/484.5 250/486.1 250/591 250/DIG.2 372/101 372/31 372/32 372/6 372/99

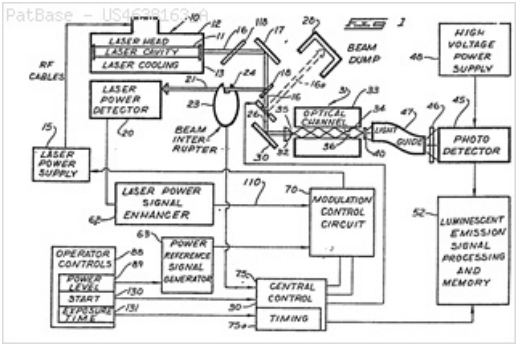
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Forward Citations: WO9812575, WO16112080, WO14056274, WO12104533, WO11101098, WO08064193, WO08054339, WO07085744, WO07085744, WO07030741, WO06113398, WO06108571, WO05065728, WO0071022, WO0040299, USD756809, US9373234, US9329277, US9329275, US9268030, US9081101, US8971673, US8941838, US8921810, US8785887, US8748921, US8653971, US8648317, US8633455, US8592782, US8575572, US8563948, US8563947, US8552403, US8541761, US8541749, US8530862, US8409525, US8335420, US8264698, US8207861, US8193940, US8148696, US8022375, US7966054, US7964854, US7943911, US7924166, US7923694, US7902570, US7902525, US7897927, US7856157, US7855375, US7765022, US7728295, US7701152, US7692145, US7641851, US7619226, US7612876, US7608812, US7560869, US7553683, US7547895, US7482924, US7443891, US7439524, US7428043, US7425705, US7405815, US7372942, US7372032, US7348560, US7250613, US7230959, US7218652, US7144154,

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Abstract:
Source: US4638163A An **apparatus** and method for rapidly reading thermoluminescent phosphors to determine the amount of luminescent energy stored therein. The stored luminescent energy is interpreted as a measure of the total exposure of the thermoluminescent phosphor to ionizing radiation. The thermoluminescent phosphor reading **apparatus** uses a laser to generate a laser beam. The laser beam power level is monitored by a laser power detector and controlled to maintain the power level nearly constant. A shutter or other laser beam interrupting means is used to control exposure of the thermoluminescent phosphor to the laser beam. The laser beam can be equalized using an optical equalizer so that the laser beam has an approximately uniform power density across the beam. The heated thermoluminescent phosphor emits a visible or otherwise detectable luminescent emission which is measured as an indication of the radiation exposure of the thermoluminescent phosphors. Also disclosed are preferred signal processing and control circuits.



64) Family number: 6691819 (US4586920A)

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Title: CONTINUOUS FLOW PERITONEAL DIALYSIS SYSTEM AND METHOD

Priority: EP19860303335 19860501 US19840629130 19840709 US19910653078 19910208 US19880200624 19880531 US19860840142 19860317 US19860858645 19860502 US19940328664 19941025

Family:

Publication number	Publication date	Application number	Application date
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Inventor(s): ARAN EMU PIIHODEI ; PEABODY ALAN M GREER SOUTH CAROLINA US ; ORIN ESU ANDAASON JUNIA

Designated states: AT BE CH DE FR GB IT LI LU NL SE

International class (IPC 8-9): A61M1/28 (Advanced/Invention);
A61M1/00 A61M1/16 (Advanced/Non-invention);
A61M1/28 (Core/Invention);
A61M1/00 A61M1/16 (Core/Non-invention)

International class (IPC 1-7): A61M1/00 A61M1/14 A61M1/28 A61M1/30 A61M5/00

CPC: Y10S128/13 A61M1/284 A61M1/1643 A61M1/1647 A61M1/1688 A61M1/281 A61M1/287 A61M1/28 A61M2205/3331 A61M1/168 A61M2205/3393 A61M1/0035 A61M1/0031 A61M1/1656 A61M1/285 A61M1/1668 A61M1/167 A61M1/1682 A61M1/1686

European class: A61M1/28 A61M1/28D K61M1/00H2 K61M1/16B7 K61M1/16B9 K61M1/16F K61M1/16F1D K61M1/16F2 K61M1/16F3 K61M1/28A K61M1/28A2 K61M1/28B2 K61M205/33P K61M205/33V4

US class: 128/DIG.13 604/29 604/31 604/65

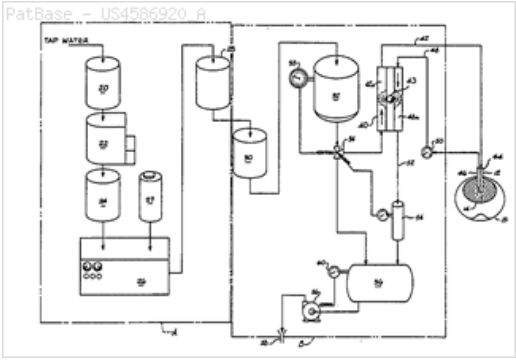
Classification Explorer

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Forward Citations: WO9951287, WO9922783, WO9637243, WO9420155, WO9403215, WO9218048, WO17176701, WO17176695, WO17176687, WO17034452, WO14159918, WO10088357, WO10000446, WO08086619, WO07089855, WO07089855, WO07080578, WO05035023, WO0232479, WO0158509, WO0124847, WO0057935, US9901307, US9861733, US9839395, US9814820, US9799274, US9795729, US9775939, US9764074, US9744285, US9744284, US9744283, US9741139, US9717449, US9697334, US9690905, US9675745, US9675744, US9585993, US9582645, US9579443, US9539379, US9514283, US9511180, US9504778, US9474842, US9451908, US9440017, US9433720, US9433719, US9415150, US9381290, US9339238, US9302037, US9283312, US9251310, US9227004, US9227003, US9149570, US9149234, US9149233, US9147045, US9141760, US9135402, US9132222, US9095655, US9050411, US8998839, US8992462, US8992461, US8936720, US8926551, US8920356, US8911367, US8900174, US8886273, US8876753, US8871095, US8870812, US8815095, US8814829, US8812072, US8801646, US8774886, US8750955, US8740837, US8740836, US8722422, US8708946, US8687003, US8684971, US8679054, US8632486, US8626257, US8597231, US8597229, US8597227, US8585634, US8562558, US8562528, US8558964, US8545435, US8535525, US8532730, US8529496, US8529490, US8521482, US8512554, US8512553, US8506522, US8500676, US8478377, US8449464, US8447376, US8425417, US8425416, US8417312, US8403880, US8396528, US8376999, US8364231, US8364230, US8361023, US8357113, US8339447, US8323231, US8313642, US8303809, US8298142, US8290559, US8287453, US8275438, US8262602, US8257582, US8226595, US8206339, US8206338, US8187250, US8182673, US8172789, US8168063, US8153083, US8142649, US8114043, US8096969, US8075526, US8070709, US8066671, US8062513, US8057679, US8038638, US7998115, US7998101, US7988849, US7988666, US7981281, US7955291, US7922911, US7922686, US7901376, US7896831, US7890341, US7867214, US7857760, US7853362, US7836914, US7815852, US7815595, US7794419, US7789849, US7783333, US7776006, US7775975, US7749184, US7744554, US7731689, US7640048, US7615007, US7534616, US7507220, US7507219, US7500962, US7500958, US7421316, US7354417, US7320674, US7273465, US7238164, US7208092, US7175606, US7172570, US7153286, US7107837, US7101519, US7087036, US7033498, US6976973, US6953323, US6939111, US6912917, US6878283, US6818196, US6814547, US6793643, US6764761, US6758975, US6726647, US6656227, US6627164, US6614212, US6613095, US6592542, US6585682, US6585681, US6561996, US6558343, US6497676, US6495366, US6491658, US6452371, US6409699, US6319221, US6308737, US6245039, US6241943, US6238366, US6235199, US6234992,

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Abstract:
Source: US4586920A A continuous flow peritoneal dialysis system and process is disclosed which includes a source of sterilized peritoneal dialysis system in the form of a gravity feed head vessel (32). A by-pass valve (34) **connects** the head vessel to an inflow/outflow directional valve 40 which controls the inflow and outflow of the sterilized dialysis **fluid** to a peritoneal catheter (12). The peritoneal catheter is implanted into the peritoneal membrane (14) of the peritoneal cavity (15). A **connectable**/disconnectable inflow **line** (42) and outflow **line** (48) are **connected** to an inflow catheter (44) and outflow catheter (46), respectively, of the double peritoneal catheter (12). A pressure monitor (50) in the outflow **line** (48) monitors the pressure within the cavity (15) and adjusts the inflow and outflow accordingly to maintain a predetermined volume and pressure of dialysis **fluid** in the cavity to maintain the membrane (14) properly distended at all times for maximum dialysis efficiency and patient comfort. Secondarily, an outflow monitor (54) monitors the outflow and if need be, increases or decreases the inflow to the directional valve (40) by controlling a by-pass valve 34. Control of the level of dialysis **fluid** in the head vessel (32) is maintained by a level monitor (38) which also can operate the by-pass valve (34) to by-pass **fluid** to a drain tank (36). Sterile dialysis **fluid** flows through the cavity (15) in an open single-pass circuit and flows into the disposal and drain tank (36) upon passing through the cavity.



65) Family number: 2912424 (US4588394A)

Title: Infusion reservoir and pump system

Priority: US19840590349 19840316 US19860850943 19860411 US19870075332 19870720 US19880170271 19880318

Family:

Publication number	Publication date	Application number	Application date
US4588394 A	19860513	US19840590349	19840316
US4681560 A	19870721	US19860850943	19860411
US4761158 A	19880802	US19870075332	19870720
US4816016 A	19890328	US19880170271	19880318

Probable Assignee: MEDTRONIC INC

Assignee(s):(std)**:** PUDENZ SCHULTE MED RES ; PUDENZ SCHULTE MEDICAL RESEARC

Assignee(s): PUDENZ SCHULTE MEDICAL RESEARCH CORP ; MEDTRONIC INC

Inventor(s):(std)**:** EAST GARY P ; SCHULTE RUDOLF R ; HEINDLE ALFONS ; HEINDL ALFONS

International class (IPC 8-9): A61M5/142 (Advanced/Invention); A61M5/142 (Core/Invention)

International class (IPC 1-7): A61M5/0

CPC: A61M5/1428

European class: A61M5/142P10M

US class: 604/185 604/8 604/9

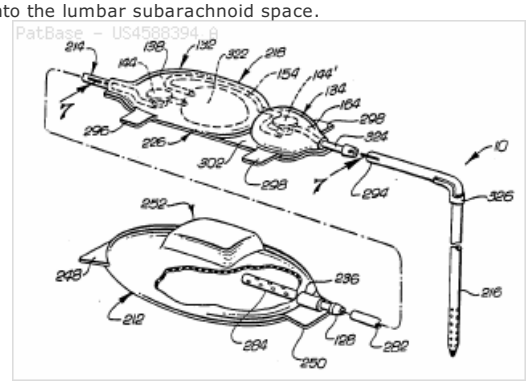
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Cited documents: US4681570 A, US4681564 A, US4681560 A, US4634427 A, US4588394 A, US4560375 A, US4557722 A, US4557721 A, US4552553 A, US4544371 A, US4364395 A, US4360019 A, US3827439 A, US3768508 A, US3756243 A, US3527220 A, US3503402 A, US342131 A, BE664424 A,

Forward Citations: WO9815315, WO9222350, WO9117779, WO8706473, WO16203003, WO16164349, WO15061493, WO13020555, WO13020555, WO09031138, WO09031138, WO07127854, WO07127854, WO06132324, WO05007223, WO03105561, WO03105561, WO0191825, WO0191825, USD754357, USD724745, USD699359, USD682416, USD676955, USD613394, USD578203, US9901714, US9895195, US9861799, US9839372, US9833169, US9827041, US9827040, US9817010, US9814873, US9801702, US9757193, US9757192, US9743983, US9731132, US9717895, US9707035, US9682186, US9681823, US9675413, US9649217, US9649048, US9642986, US9636174, US9636031, US9616207, US9603993, US9603992, US9579496, US9561358, US9554937, US9554716, US9549685, US9532724, US9526440, US9521961, US9504815, US9498608, US9492097, US9486270, US9474888, US9474563, US9468497, US9463066, US9456869, US9456766, US9445867, US9445734, US9439726, US9427553, US9421352, US9415188, US9402992, US9381112, US9364280, US9345422, US9339206, US9327122, US9326817, US9320561, US9314630, US9308044, US9308043, US9295821, US9289255, US9265912, US9265558, US9265443, US9248268, US9241819, US9211107, US9199069, US9192715, US9192501, US9186213, US9186198, US9138281, US9131978, US9125718, US9125661, US9125578, US9108040, US9089395, US9079004, US9072527, US9033909, US9023063, US9023062, US9023037, US8992415, US8986294, US8983595, US8971994, US8958871, US8948865, US8946152, US8946151, US8939947, US8934978, US8932271, US8905916, US8882728, US8882655, US8880186, US8858455, US8858421, US8852163, US8849382, US8845629, US8827976, US8821373, US8818514, US8814829, US8808243, US8808231, US8805545, US8801693, US8801597, US8784463, US8784336, US8783001, US8781555, US8774922, US8774913, US8774907, US8771252, US8768470, US8758702, US8758308, US8750988, US8740896, US8740833, US8740769, US8738151, US8728138, US8728137, US8721637, US8721605, US8715733, US8715158, US8712517, US8708979, US8684998, US8684910, US8652133, US8641688, US8641676, US8626300, US8620423, US8608713, US8608712, US8603052, US8591456, US8585663, US8551069, US8548600, US8545460, US8512256, US8506532, US8478382, US8475417, US8454594, US8444640, US8437833, US8433423, US8409221, US8398654, US8398630, US8388546, US8388541, US8382724, US8382723, US8372045, US8347891, US8267883, US8221354, US8175711, US8150520, US8150519, US8150518, US8145317, US8145316, US8131372, US8131371, US8114064, US8034030, US8034029, US8002747, US8002730, US7937143, US7914510, US7853333, US7815615, US7744555, US7717948, US7708730, US7653438, US7647115, US7620451, US7617005, US7399742, US7217425, US7192414, US7192413, US7162303, US7108686, US7083593, US7074893, US7018375, US6978174, US6929631, US6835194, US6773428, US6764472, US6689373, US6541021, US6530901, US6478783, US6471686, US6377849, US6319245, US6193682, US6139539, US6132187, US6090094, US6083148, US6022308, US5989216, US5931774, US5913852, US5906597, US5871478, US5836935, US5792104, US5743869, US5730722, US5728061, US5688237, US5681275, US5637083, US5616118, US5611767, US5558641, US5429582, US5417651, US5399168, US5387192, US5372578, US5360407, US5314405, US5304114, US5254092, US5232448, US5167615, US5154693, US5152753, US5137529, US5112303, US5085644, US5084015, US5061243, US5037385, US5011477, US4904241, US4898585, US4898584, US4898583, US4867740, US4861331, US4857059, US4850955, US4840190, US4816016, US4813951, US4781680, US4761158, US4718894, US4713054, US4681560, US2016199568, US2015374964, US2013085441, US2012157759, US2012150139, US2012144776, US2012016311, US2011270187, US2011208096, US2011207758, US2011196248, US2011178570, US2011143648, US2011136847, US2011118677, US2011034857, US2011015533, US2010331712, US2010318026, US2010317981, US2010317948, US2010268151, US2010217179, US2010204569, US2010160859, US2010121283, US2010121256, US2010106134, US2010094116, US2010094075, US2010094074, US2010042039, US2010036227, US2009264901, US2009259267, US2009221976, US2009221939, US2009131857, US2008319405, US2008213331, US2008103458, US2008082036, US2008033520, US2007299408, US2007299401, US2007299400, US2007299399, US2007299398, US2007299397, US2007276344, US2007255262, US2007213799, US2007203549, US2007173899, US2007088335, US2007083239, US2007066957, US2007049846, US2007014820, US2006271111, US2006271022, US2006270983, US2006263250, US2006258970, US2006235474, US2006206150, US2006184143, US2006122562, US2006025821, US2006019889, US2006019875, US2006019869, US2006018887, US2006004317, US2005288730, US2005234523, US2005228460, US2005209573, US2005192638, US2005175658, US2005137134, US2005129737, US2005113745, US2005106205, US2004254522, US2004249363, US2004236071, US2004157884, US2004102476, US2003233035, US2003208184, US2003096748, US2003088236, US2003069541, US2002156463, US2001041824, FR2637188, FR2600525, FR2599260, EP3100702, EP2583717, EP2413996, EP2399533, EP1961442, EP1614442, EP1486229, EP0993837, EP0970724, EP0450186, EP0260081, EP0231371, DE4000457, DE102007010760, DE102007010760, BE1001616, AU601759,

Abstract:
Source: US4588394A A totally subcutaneously implantable infusion reservoir and pump system includes a variable capacity reservoir for receiving and storing **fluids** containing medications for delivery to a catheter which directs the medications to a specific infusion location in the body. A pump and a valving arrangement is interposed between the reservoir and the catheter to facilitate and control the transfer of the medications from the reservoir to the catheter in a safe and efficient manner. In one preferred form, a normally closed first valve is situated between the reservoir and a pump, and a normally closed second valve is

situated between the pump and the catheter in a manner such that the pump and valving arrangement defines a portion of a **fluid** flow conduit between the reservoir and the catheter. The pump and valving arrangement requires at least two deliberate and sequential steps before the medications stored in the reservoir can be transferred to the catheter. As an additional safety feature, an integral flow occluder can be added to the pump and valving arrangement to prevent the emptying of the medications in the reservoir through the catheter into the body when both normally closed valves are opened simultaneously. When the system is used in the treatment of terminally ill patients, the catheter can be placed within the body to direct morphine or other pain killing medications directly into the lateral ventricle of the brain or into the lumbar subarachnoid space.



66) Family number: 30159160 (US4592349A)

© PatBase

Title: VENTILATOR HAVING AN OSCILLATORY INSPIRATORY PHASE AND METHOD

Priority:
CA19840446110 19840126 CA19840563456 19840126 CA19840598775 19840126
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Family:

Publication number	Publication date	Application number	Application date
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CA1292658 A1	19911203	CA19840598775	19840126
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Probable Assignee: COCTOBER 10 2003 RESTATEMENT OF TRUST A UNDER FORREST M BIRD AND MARY P BIRD REVOCABLE TRUST DATED JULY 29 1983

Assignee(s):(std)**:** BIRD F M

Assignee(s): BIRD FORREST M ; COCTOBER 10 ; COCTOBER 10 2003 RESTATEMENT OF TRUST A UNDER FORR ; COCTOBER 10 2003 RESTATEMENT OF TRUST A UNDER FORREST M BIRD AND MARY P BIRD REVOCABLE TRUST DATED JULY 29 1983 ; OCTOBER 10 ; OCTOBER 10 2003 RESTATEMENT OF TRUST A UNDER FORRE ; OCTOBER 10 2003 RESTATEMENT OF TRUST A UNDER FORREST M BIRD AND MARY P BIRD REVOCABLE TRUST DATED JULY 29 1983

Inventor(s):(std)**:** BIRD FORREST M

Agent(s): SMART AND BIGGAR

International class (IPC 8-9): A61B16/00 A61M16/00 A61M16/08 B05B7/00 (Advanced/Invention);
A61B16/00 A61M16/00 A61M16/08 B05B7/00 (Core/Invention)

International class (IPC 1-7): A61B16/00 A61M16/00 F16L39/00

CPC: Y10S128/912 A61M16/08 A61M16/0096 A61M16/0816 B05B7/0012 A61M11/06 Y10T137/2544 A61M11/042 A61M16/0012 A61M16/107 A61M2016/0027 A61M16/0051 A61M16/021 A61M16/0006

European class: A61M16/00 A61M16/08 B05B7/00B K61M16/00A2 K61M16/00T K61M16/08D

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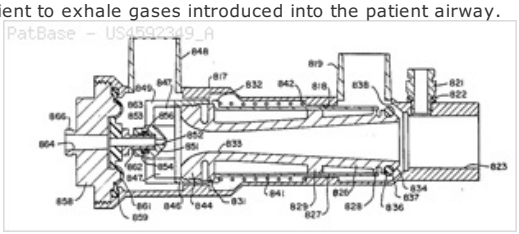
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Abstract:
Source: US4592349A Ventilator for use with a source of gas under pressure for supplying such gas to the airway of a patient having an inlet adapted to be **connected** to the source of gas, and an outlet adapted to be **connected** to the airway of the patient. A pneumatic oscillator is **connected** to the inlet for supplying pulsatile gas in the form successive small volumes of gas to the airway of the patient during a breath of the patient to cause diffusive ventilation of the airway of the patient. An exhalation valve assembly is **connected** to the patient airway for permitting the patient to exhale gases introduced into the patient airway.



67) Family number: 29252786 (US4717673A)

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Title: MICROELECTROCHEMICAL **DEVICES**

Priority:
AU19850050306 19851125 CA19850495995 19851122 CA19850495996 19851122
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Family:

Publication number	Publication date	Application number	Application date
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WO8904061 A1	19890505	WO1988US03665	19881018

Probable Assignee: MASSACHUSETTS INST OF TECHNOLOGY

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Assignee(s): MASSACHUSETTS INST OF TECHNOLOGY INC ; MASSACHUSETTS INST OF TECHNOLOGY A CORP OF MASSACH ; MASSACHUSETTS INST OF TECHNOLOGY CAMBRIDGE MASS US ; WRIGHTON MARK S ; WHITE HENRY S JR ; THACKERAY JAMES W ; MASSACHUSETTS INST OF TECHNOLOGY A CORP OF MASSACHUSETTS ; MASSACHUSETTS INST OF TECHNOLOGY CAMBRIDGE MASS ; KITTLESEN GREGG P ; MASSACHUSETTS INST ; MASSACHUSETTS INST OF TECHNOL ; MASSACHUSETTS INST OF TECHNOL LESS THAN MIT ; MASSACHUSETTS INST OF TECHNOL MIT ; MASSACHUSETTS INST OF TECHNOLOGY ; MASSACHUSETTS INST OF TECHNOLOGY A CORP OF MA

Inventor(s):(std)**:** THACKERAY JAMES W ; WHITE HENRY S ; WHITE HENRY S JR ; WHITE JR HENRY S ; WRIGHTON MARK S ; KITTLESEN GREGG P

Inventor(s): MAAKU ESU RAITON ; GURETSUGU PII KITORUSEN ; HENRII ESU HOWAITO JIYUNIA ; JIEIMUZU DABURIYUU SATSUKAREI ; WHITE HENRY S JR MINNEAPOLIS MN 55415 US ; MARK S WRIGHTON ; JAMES W THACKERAY ; HENRY S WHITE JR ; HENRY S WHITE ; GREGG P KITTLESEN

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; BLAKE DAWSON; ASHURST AUSTRALIA; RICHES MCKENZIE AND HERBERT LLP

Designated states: AT BE CH DE FR GB IT JP LI LU NL SE

International class (IPC 8-9):
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G01N21/75 G01N27/00 G01N27/12 G01N27/26 H01L51/00 H01L51/40 H01L51/42 (Advanced/Non-invention);
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International class (IPC 1-7):
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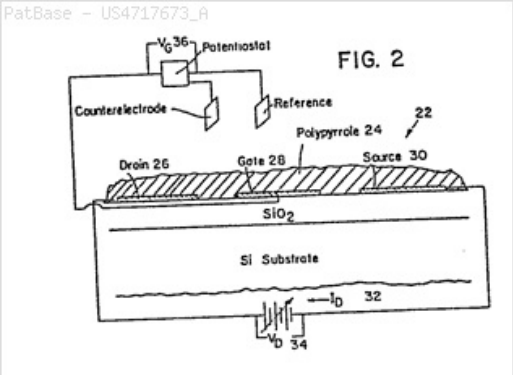
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Abstract:
Source: US4717673A Very stable, polymer-based electrochemical **devices**, formed by polymerization of thiophene or a derivative such as 3-methylthiophene which is durable in an aqueous electrolyte over a wide pH range, which respond rapidly to chemical or electrical signals, are disclosed. In one embodiment, the **device** functions as an extremely sensitive sensor which measures changes in chemical concentration or pH. For example, a poly-3-methylthiophene-based **device** is sensitive to as little as 8x10-16 moles of an oxidant which reversibly interacts with the polymer, including gas phase oxidants such as I2. In a variation of the polymer-based **device**, a catalyst such as a noble metal or an enzyme, is dispersed on or within the conducting polymer matrix so that the **device** is responsive to chemicals such as H2 and O2 which the polymer would otherwise respond very slowly to. In a second embodiment, a polymer-based electrochromic **device** consists of polymer-coated microelectrodes which are individually addressed. Very high resolution is achieved by separating the microelectrodes by distances on the order of 10,000 Angstroms. In still another embodiment, the polymer-based **device** functions as a capacitor with an energy density as high as 200-300 J/cm3 which can operate at frequencies as high as 100 Hz. Large polymer-based capacitors are useful for storage of solar energy or as automobile batteries. Microcapacitors may be incorporated into conventional integrated circuit designs.



68) Family number: 6709026 (US4874366A)

© PatBase

Title: HOUSING ENABLING PASSIVE MIXING OF A BENEFICIAL AGENT WITH A DILUENT

Priority: CA19850496680 19851202 CA19850606370 19851202 CA19854966805 19851202 US19880287504 19881219 US19880154523 19880207 US19840721991 19841203 WO1985US02357 19851129

Family:

Publication number	Publication date	Application number	Application date
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NO863114 A	19861002	NO19860003114	19860801
NO863114 A0	19860801	NO19860003114	19860801
US4874366 A	19891017	US19880287504	19881219
WO8603417 A1	19860619	WO1985US02357	19851129
ZA8509249 A	19860730	ZA19850009249	19851203

Probable Assignee: BAXTER INT

Assignee(s):(std)**:** BAXTER INT ; BAXTER TRAVENOL LAB

Assignee(s): BAXTER TRAVENOL LABORATORIES INC ; BAXTER INTERNATIIONAL INC ; ZDEB BRIAN ; PEARSON STEVE ; SLATER GLENN L ; BAXTER INT INC ; BAXTER INT INC A DELAWARE CORP ; BAXTER INT INC A DELAWARE CORPORATION

Inventor(s):(std)**:** BRIAN ZDEB ; GLENN L SLATER ; PEARSON STEVE ; SLATER GLENN L ; SLATER L ; STEVE PEARSON ; ZDEB BRIAN

Inventor(s): ZUDEBU BURAIAN ; SUREETAA GUREN ERU ; PIASON SUCHIIBU

Agent(s): PETER MAXWELL AND ASSOCIATES; SIM AND MCBURNEY

Designated states: AT AU BE CH DE FR GB IT JP LI LU NL NO SE

International class (IPC 8-9): A61J3/00 A61M39/00 A61M5/14 (Advanced/Invention); A61J3/00 A61M39/00 (Advanced/Non-invention); A61J3/00 A61M39/00 A61M5/14 (Core/Invention)

International class (IPC 1-7): A61J3/00 A61M39/00 A61M5/00 A61M5/14 A61M5/16

CPC: A61M5/1409

European class: A61M5/14B2

US class: 604/518 604/56 604/85

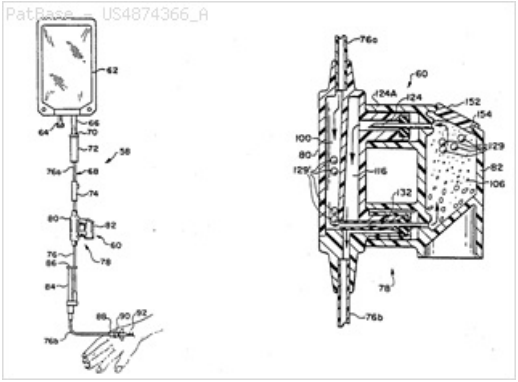
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Forward Citations: WO9316754, WO9012606, WO9012606, WO8805318, WO15109162, WO05053510, WO05053510, WO0241830, WO0241830, WO0044418, US9561344, US9522098, US9272127, US9227017, US8821437, US8562582, US8226627, US8123756, US8022375, US7641851, US7572263, US7425209, US7358505, US7074216, US6890328, US6878338, US6875203, US6852103, US6805685, US6685692, US6676632, US6610040, US6582415, US6520932, US6309373, US6296621, US6159192, US6113583, US6090092, US6090091, US6071270, US6070761, US6063068, US6022339, US6019750, US5989237, US5941848, US5853406, US5490848, US5395323, US5304130, US5135489, US5074844, US4936829, US4911705, US4832690, US4784495, US2015231363, US2013178823, US2013116629, US2008294100, US2008161849, US2006178628, US2004228769, US2004097886, US2003191453, JP64086979, JP1086979, EP1349586, EP1349586, EP0783899, EP0526623, EP0436504, EP0267950, AU659968, AU658491, AU594556,

Abstract:
Source: US4874366A A housing is provided for insertion in an intravenous delivery system including a **fluid** source and a **fluid** conduit. The housing is adapted for receiving a beneficial agent to be mixed with **fluid** flowing through the **fluid** conduit. The beneficial agent is reconstituted within the housing, eliminating the need for manual reconstitution. The housing may comprise a separate receptacle and cartridge in which the receptacle is manufactured "in-**line**" in an administration set and the cartridge is adapted for receiving a beneficial agent. In one embodiment of the invention, the cartridge is a standard drug vial.

PatBase — US4874366_A



69) Family number: 6709021 (US5024657A)

Title: Drug delivery **apparatus** and method preventing local and systemic toxicity

Priority: CA19850496681 19851202 US19840721999 19841203 US19900518272 19900504 WO1985US02356 19851129 WO1985US02356 19851129

Family:

Publication number	Publication date	Application number	Application date
AU198652331 A1	19860701	AU19860052331	19851129
AU592546 B2	19900118	AU19860052331	19851129
CA1261701 A1	19890926	CA19850496681	19851202
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NO863115 A	19861002	NO19860003115	19860801
NO863115 A0	19860801	NO19860003115	19860801
US5024657 A	19910618	US19900518272	19900504
WO8603416 A1	19860619	WO1985US02356	19851129
ZA8509248 A	19860730	ZA19850009248	19851203

Probable Assignee: BAXTER INT

Assignee(s):(std)**:** BAXTER TRAVENOL LAB ; BAXTER INT

Assignee(s): BAXTER INT INC ; BAXTER INT INC A DELAWARE CORP ; BAXTER TRAVENOL LABORATORIES INC ; KOPP CLINTON V ; PEARSON STEVE ; NEEDHAM THOMAS E ; CHILAMKURTI RAO ; WRIGHT JEREMY C

Inventor(s):(std)**:** CHILAMKURTI N ; CHILAMKURTI RAO ; CHILAMKURTI RAO N ; KOPP CLINTON V ; KOPP V ; NEEDHAM E ; NEEDHAM THOMAS E ; PEARSON STEVE ; STEVE PEARSON ; WRIGHT C ; WRIGHT JEREMY C ; THOMAS E NEEDHAM ; RAO N CHILAMKURTI ; JEREMY C WRIGHT ; CLINTON V KOPP

Agent(s): PETER MAXWELL AND ASSOCIATES; SIM AND MCBURNEY

Designated states: AT AU BE CH DE FR GB IT JP LI LU NL NO SE

International class (IPC 8-9): A61M39/00 A61M5/14 A61M5/168 (Advanced/Invention); A61M39/00 A61M5/168 (Advanced/Non-invention); A61M39/00 A61M5/14 A61M5/168 (Core/Invention)

International class (IPC 1-7): A61M39/00 A61M5/14 A61M5/16

CPC: A61M5/1409

European class: A61M5/14B2

US class: 604/251 604/518 604/519 604/56 604/85

Classification Explorer

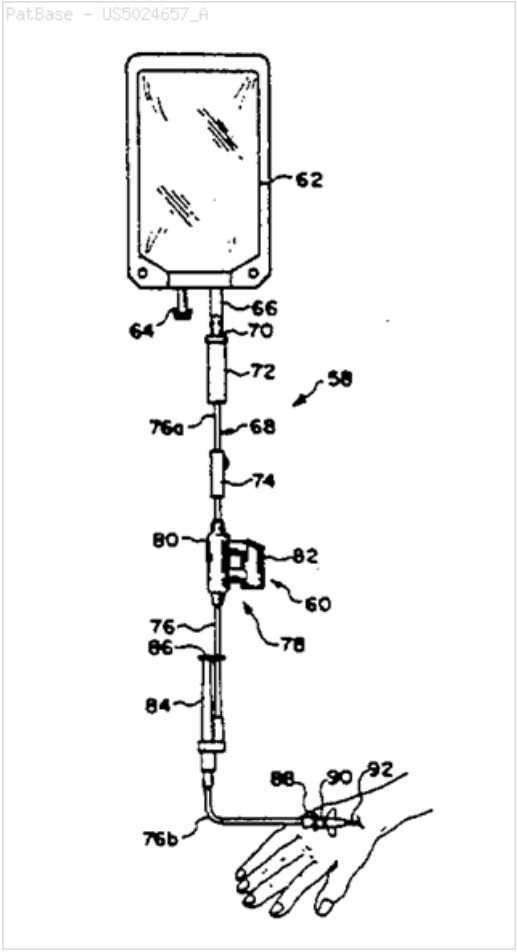
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Forward Citations: WO9741904, WO9505211, WO9505211, WO9320863, WO9316754, WO8910770, WO8904190, WO14169081, WO13023146, WO10146506, WO03006139, WO0009183, WO0009183, USD793551, USD786427, USD644731, US9884176, US9750926, US9533137, US9440060, US9415200, US9278206, US9238129, US9205243, US9192753, US9186494, US9125992, US8870850, US8758306, US8701696, US8628515, US8454579, US8444628, US8398607, US8226627, US8221391, US8221363, US8105314, US8022375, US8002765, US7981090, US7947032, US7824393, US7790043, US7763199, US7753338, US7722576, US7722575, US7717887, US7717886, US7717885, US7717884, US7717883, US7713249, US7713248, US7713247, US7641851, US7635357, US7628774, US7588684, US7497849, US7470265, US7425209, US7358505, US7226538, US7074216, US6916309, US6890328, US6875203, US6852103, US6758833, US6695817, US6682509, US6669681, US6669673, US6641556, US6635044, US6610040, US6599273, US6582415, US6572592, US6309373, US6296621, US6261282, US6159192, US6158458, US6113583, US6090092, US6090091, US6071270, US6070761, US6063068, US6022339, US6019750, US5989237, US5954313, US5941848, US5928204, US5853406, US5833213, US5788215, US5766147, US5685866, US5649907, US5578005, US5571261, US5558255, US5553741, US5433704, US5398851, US5397303, US5308335, US5304130, US5205820, US5195992, US5116316, US5030203, US4804366, US4784495, US2015306367, US2014336610, US2010022938, US2009221069, US2007260168, US2006264848, US2006212006, US2005277906, US2004222139, US2004073174, JP2014524308, JP2012529957, JP2007045466, ITTO20090455, EP1104314, EP0713409, EP0636035, EP0252892, AU621369,

Abstract:

Source: US5024657A An **apparatus** is provided for the safe, passive reconstruction of a drug or other beneficial agent, without requiring manual reconstitution steps. The **apparatus** includes a housing, preferably having a receptacle "in-**line**" in an administration set and forming part of an intravenous delivery system, and a cartridge adapted for receiving a beneficial agent or beneficial agent and carrier. The cartridge is plugged into the receptacle to initiate reconstitution of the agent. The **apparatus** creates first and second delivery modes, in which the delivery rate of the agent to a patient is independent from and dependent upon, respectively, the **fluid** flow rate through the intravenous delivery system.

PatBase - US5024657_A



70) Family number: 30416198 (US4735935A)

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Title: PROCESS FOR PREPARATION OF ALOE PRODUCTS PRODUCTS, PRODUCED THEREBY AND COMPOSITIONS THEREOF

Priority:

CA19860512680 19860627	CA19880585318 19881208	EP19860904550 19860620
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WO1994US11324 19941003	WO1994US11324 19941005	

Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: NOVUM PHARMA LLC

Assignee(s):(std)**:** CARRINGTON LAB INC ; CARRINGTON LABORATOIRES INC ; CARRINGTON LABORATORIES INC ; KAARINTON LAB INC

Assignee(s): CARRINGTON LABORATORIES INC 1300 E ROCHELLE BOULEV ; MCANALLEY BILL H ; MCDANIEL HARLEY REGINALD ; CARRINGTON LABORATORIES INC A CORP OF TEXAS ; CARRINGTON LABORATORIES INC 1300 E ROCHELLE BOULEVARD IRVING TEXAS 75062 A CORP OF TEXAS ; ROCKMORE INVESTMENT MASTER FUND LTD ; PRIMUS PHARMACEUTICALS INC ; NOVUM PHARMA LLC ; PREVIDI ROBERT G ; RGP PHARMACAP LLC ; NATIONSBANK OF TEXAS NA FRED POINTS ; NATIONSBANK OF TEXAS NA ; CARRINGTON LABORATORIES INC DALLAS TEX US ; CARRINGTON LABORATORIES INC IRVING TEX US ; DELSITE INC ; NANOTHERAPEUTICS INC ; CARRINGTON LABORATORIES INC A CORP OF TX ; ALOE TECHNOLOGIES LLC ; CARPENTER ROBERT HUNT ; CARRINGTON ACQUISITION LLC

Inventor(s):(std)**:** BIL H MCANALLEY ; BILL H MCANALLEY ; BILL H MCANALLY ; BILL HMCANALLEY ; CARPENTER ROBERT H ; CARPENTER ROBERT HUNT ; ERIC D MOORE ; MATSUKANAREI BIRU ETSUCHI ; MCANALLEY B H ; MCANALLEY BH ; MCANALLEY BIL H ; MCANALLEY BILL ; MCANALLEY BILL H ; MCANALLEY BILL HERMAN ; MCANALLEY HILL H ; MCANALLY BILL H ; MCDANIEL HARLEY R ; MCDANIEL HARLEY REGINALD ; MCNALLEY BILL H ; MOORE D ERIC ; MOORE ERIC D

Inventor(s): MCANALLEY BILL H GRAND PRAIRIE TEXAS 75052 US ; MCANALLEY BILL H GRAND PRAIRIE TX 75052 US

Agent(s): CALLINANS; GOWLING LAFLEUR HENDERSON LLP

Designated states: AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK ES FI FR GA GB GN GR HU IE IT JP KP KR KZ LI LK LU LV MC MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SK SN SU TD TG UA UZ VN

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A61K36/00 A61K39/39 A61K8/00 A61K8/72 A61K8/96 (Advanced/Non-invention);
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A01G A61K B01J (Subclass/Invention)

International class (IPC 1-7): A01G A23L2/00 A23L2/04 A23L2/38 A23L2/52 A23L2/56 A61K31/19 A61K31/70 A61K31/715 A61K31/72 A61K35/78 A61K39/00 A61K39/12 A61K39/39 A61K45/05 A61K7/00 A61K7/42 A61K7/48 A61K9/10 B01J C07G17/00 C07H1/08 C07H13/00 C07H3/02 C07H3/2 C08B37/00 C08L5/00 C12N7/04

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Abstract:
Source: US4735935A Process for producing aloe extracts including the separation of the leaves of the aloe plant into distinct portions. In particular, a first process is described for producing an aloe extract which is substantially free of anthraquinone-rich yellow sap and a second process is described for extracting the active chemical substance in the aloe plant. The active chemical substance in the aloe plant is extracted from aloe leaves and its characteristic properties are described.

PatBase - US4735935_A

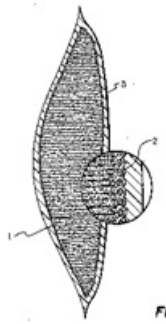


FIG. 1

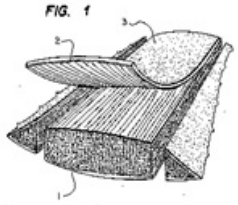


FIG. 2

71) Family number: 30151764 (US4971034A)

Title: BODY CAVITY PRESSURE ADJUSTING **DEVICE** FOR ENDOSCOPE AND LASER **MEDICAL** TREATMENT **APPARATUS** INCLUDING BODY CAVITY PRESSURE ADJUSTING **DEVICE**

Priority:

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Publication number	Publication date	Application number	Application date
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Probable Assignee: ASAHI OPTICAL CO LTD

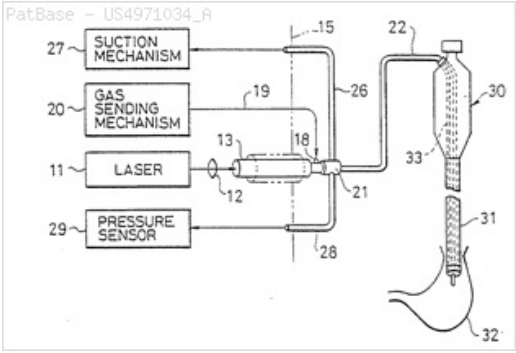
Assignee(s):(std)**:** ASAHI OPTICAL CO LTD

Assignee(s): ASAHI KOGAKU KOGYO K K ; ASAHI KOGAKU KOGYO K K TOKIO TOKYO JP ; ASAHI KOGAKU KOGYO KABUSHIKI KAISHA ; ASAHI KOGAKU KOGYO KK

Inventor(s):(std)**:** DOI YUZURU ; DOI YUZURU ASAHI KOGAKU KOGYO ; DOI YUZURU C O ASAHI KOGAKU KO ; DOI YUZURU C O AZAHI KOGAKU KO ; HONDA RYOJI ; HONDA RYOJI ASAHI KOGAKU KOGYO ; HONDA RYOJI C O ASAHI KOGAKU K ; HONDA RYOJI C O AZAHI KOGAKU K ; OSAWA HITOSHI ; SHIRAI MASAMI ; SHIRAI MASAMI ASAHI KOGAKU KOG ; SHIRAI MASAMI C O ASAHI KOGAKU ; SHIRAI MASAMI C O AZAHI KOGAKU ; YUZURU DOI

Inventor(s):	SHIRAI MASAMI C O ASAHI KOGAKU KOGYO K K TOKYO 174 ; DOI YUZURU C O ASAHI KOGAKU KOGYO K K TOKYO 174 JP ; SHIRAI MASAMI C O ASAHI KOGAKU KOGYO K K ; SHIRAI MASAMI C O ASAHI KOGAKU KOGYO K K TOKYO... ; SHIRAI MASAMI ASAHI KOGAKU KOGYO K K ; OSAWA HITOSHI TOKIO TOKYO JP ; PPONDA RYOJI ; OOSAWA HITOSHI ; HONDA RYOJI C O ASAHI KOGAKU KOGYO K K ; HONDA RYOJI ASAHI KOGAKU KOGYO K K ; DOI YUZURU TOKIO TOKYO JP ; HITOSHI OSAWA ; DOI YUZURU C O ASAHI KOGAKU KOGYO K K ; DOI YUZURU ASAHI KOGAKU KOGYO K K
Designated states:	AT BE CH DE ES FR GB GR IT LI LU NL SE
International class (IPC 8-9):	A61B1/00 A61B1/012 A61B1/015 A61B1/12 A61B1/273 A61B18/20 A61B18/22 A61B5/03 A61M1/00 A61M13/00 F16K7/04 G02B23/24 (Advanced/Invention); A61B17/34 A61M13/00 (Advanced/Non-invention); A61B1/00 A61B1/012 A61B1/12 A61B1/273 A61B18/20 A61B5/03 A61M1/00 A61M13/00 F16K7/00 G02B23/24 (Core/Invention); A61B17/34 A61M13/00 (Core/Non-invention)
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European class:	A61B1/00C1B A61B1/00C6 A61B1/00E2B A61B1/015 A61B1/12 A61B1/273D A61B18/20 A61B18/22 A61B5/03 A61B5/42K6 A61M1/00H2 A61M1/00K A61M13/00G F16K7/04B K61B1/07 K61B17/34N K61B18/00H K61M1/00H2B K61M13/00G K61M202/02
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Forward Citations:	WO9740750, WO17014623, WO15134749, WO15043570, WO10138521, WO10087060, WO08039314, WO07074442, WO06039248, WO06033395, WO06026382, WO06025045, WO0135844, USRE46007, US9901665, US9737362, US9597149, US9585990, US9561335, US9498244, US9439557, US9358363, US9241614, US9237838, US9233193, US9173553, US9167958, US9161680, US9107573, US8888684, US8870753, US8771259, US8702620, US8622894, US8608648, US8602974, US8585715, US8535219, US8496580, US8475366, US8435172, US8430809, US8425408, US8419678, US8357148, US8353860, US8317687, US8287485, US8246607, US8216159, US8211128, US8202265, US8199187, US8197400, US8118732, US8097003, US8083671, US8057387, US8052597, US8016821, US7967759, US7955255, US7947013, US7892167, US7857806, US7846107, US7833176, US7824329, US7645288, US7635346, US7635345, US7597662, US7591783, US7578786, US7479106, US7419483, US7413543, US7341556, US7335159, US7322971, US7264616, US7244251, US7241287, US7241263, US7087011, US7066882, US7063670, US6872183, US6800058, US6743184, US6682479, US6554780, US6402715, US6402688, US6391102, US6315716, US6193649, US6175580, US6139519, US6019599, US5908402, US5827267, US5662611, US5558668, US5546935, US5445157, US5408546, US5343855, US5337730, US5336218, US5328458, US5318516, US5199944, US5098375, US2016317000, US2016220102, US2015119645, US2014350384, US2014107416, US2013303852, US2012253124, US2011295146, US2011112368, US2011092765, US2011077605, US2010191173, US2009182197, US2009137973, US2008167524, US2008161645, US2008146876, US2008125629, US2008097292, US2008009679, US2007255107, US2007255106, US2007244363, US2007244359, US2007219532, US2007198041, US2007185481, US2007185452, US2007179432, US2007163604, US2006253039, US2006235450, US2006217685, US2006217684, US2006217637, US2006201351, US2006069306, US2006047184, US2005197531, US2005154355, US2005154278, US2005059992, US2005038335, US2005038318, US2005036059, US2005017021, US2004254432, US2004254431, US2004230132, US2004220452, US2004143219, JP64022240, JP63164931, JP6209901, JP5329098, JP5285093, JP5245100, JP4564595, JP4564595, JP4329942, JP3197380, JP2997553, JP2665110, JP2012200530, JP2010087060, JP2008511376, JP2005287839, JP1104239, JP1022240, FR2705555, EP2827031, EP2798997, EP2773274, EP2662106, EP2505123, EP1902661, EP1902661, EP1825802, EP1825802, EP1815807, EP1815807, EP1229829, EP0895459, EP0856326, EP0746379, EP0746379, EP0689793, EP0689792, EP0532911, EP0530561, EP0529432, EP0527499, EP0527498, EP0480428, EP0423062, EP0407820, EP0361086, DE4404253, DE4404252, DE4219859, DE4219859, DE4141609, DE3706717, DE19943367, DE19860483, CN106793935, CN106691362, CN104800963, CN104093374, CN103654920, CN103429134, CN103429134, CN102697450, CN102697450, CN102670285, CN102458218,

Abstract:
Source: US4971034A An endoscope system is provided in which air is pumped into a first channel into the endoscope in order to pressurize the body cavity and a forceps channel is **connected** to a suction pump in order to drain the body cavity of **fluid**, air and debris. Either a second suction pump or a second supply of air is **connected** to the forceps channel along with a pressure detector for controlling suction. Further, a suction tube is also provided which is **connected** to, and which communicates with, a forceps channel in which a **medical** tool is adapted to be inserted, and a suction **device** is, in turn, **connected** to and communicates with the suction tube. Pressure within the suction tube is detected by a pressure detecting **device**, and the detected pressure is indicated on the display. A suction control **device** is provided which controls operation of the suction **device** by operating based upon an output signal from a pressure setting **device** for setting a maximum value for the body cavity pressure and an output signal from the pressure detecting **device**. A laser knife is also provided which includes a protective pipe surrounding a fiber optic laser transmitting member for forming a first gap and a tube surrounding the protective pipe to form a second gap. Gas is passed through the first gap to cleanse the emitting end of the laser transmission member. A pressure detecting **device** is **coupled** to the second gap in order to monitor pressure within the stomach, and a suction **device** which is responsive to the pressure detecting **device** is also **connected** to the second gap in order to control gas pressure within the stomach.


PatBase - US4971034_A
SUCTION MECHANISM
GAS SENDING MECHANISM
LASER
PRESSURE SENSOR
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72) Family number: 22608911 (US2002045811A)

Title: LASER ABLATION PROCESS AND **APPARATUS**

Priority:

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Family:

Publication number	Publication date	Application number	Application date
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US5304173 A	19940419	US19930094584	19930720
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US5693043 A	19971202	US19900504146	19900403

Probable Assignee: MASSACHUSETTS INST TECHNOLOGY

Assignee(s):(std)**:** FELD MICHAEL S ; MASSACHUSETTS INSTITUE OF TECH ; KITTRELL CARTER ; COTHREN ROBERT M ; MASSACHUSETTS INST TECHNOLOGY ; MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Assignee(s): MASSACHUSETTS INSTITUTE OF TECHNOLOGY CAMBRIDGE MASS US ; WILLETT ROBERT L ; PRINCE MARTIN R ; TOBIN JILL M ; SACKS BARRY A ; MASSACHUSETTS INST OF TECHNOL ; HAYES GARY B ; KENNY LEO T ; MASSACHUSETTS INST OF TECHNOL MIT ; COTHREN ROBERT M JR ; DE LOS SANTOS PACHECO CYNTHIA ; MASSACHUSETTS INST ; MASSACHUSETTS INST OF TECHNOLOGY ; MASSACHUSETTS INSTITUE OF TECHNOLOGY ; MASACHUUSETSUTSU INST OBU TEKUNOROJII

Inventor(s):(std)**:** COTHREN ROBERT M ; DE LOS SANTOS PACHECO CYNTHIA ; HAYES GARY B ; KENNY LEO T ; PRINCE MARTIN R ; TOBIN JILL M ; WILLETT ROBERT L ; UNKNOWN ; SHINSHIA DE ROSU SANTOSUPACHEK ; SACKS BARRY ; BARRY A SACKS ; FIELD MICHAEL S ; SHINSHIA DE ROSU SANTOSUPACHIE ; ROBAATO EMU KOSUREN JIYUNIA ; REO TEII KENII ; MAIKERU ESU FUERUDO ; MAATEIN AARU PURINSU ; KITTRELL CARTER ; KAATAA KITSUTORERU ; JIRU EMU TOBIN ; GEIRII BII HEIESU ; FELD MICHAEL S ; COTHREN ROBERT M JR ; COTHREN JR ROBERT M ; COTHREN JR ; SACKS BARRY A ; ROBAATO ERU UIRETSUTO

Inventor(s): ROBAATO EMU KOSUREN JUNIA ; SHINSHIA DE ROSU SANTOSUPACHEKO ; SHINSHIA DE ROSU SANTOSUPACHIEKO ; SACHS BARRY ; KITTRELL CARTER HOUSTON TEXAS 77030 US ; KITTRELL CARTER CAMBRIDGE MASSACHUSETTS 02138 US ; SACKS BARRY A NEWTON MASSACHUSETTS US

Agent(s): OGILVY RENAULT LLP SENCRL SRL; MASUI CHUJI; SHAMOTO ICHIO; KOBAYASHI YASUSHI; KURITA TADAHIKO

Designated states: AT BE CH DE FR GB IT LI LU NL SE

International class A61B1/00 A61B1/005 A61B1/07 A61B10/00 A61B17/22 A61B18/20 A61B18/24 A61B5/00 A61M25/00

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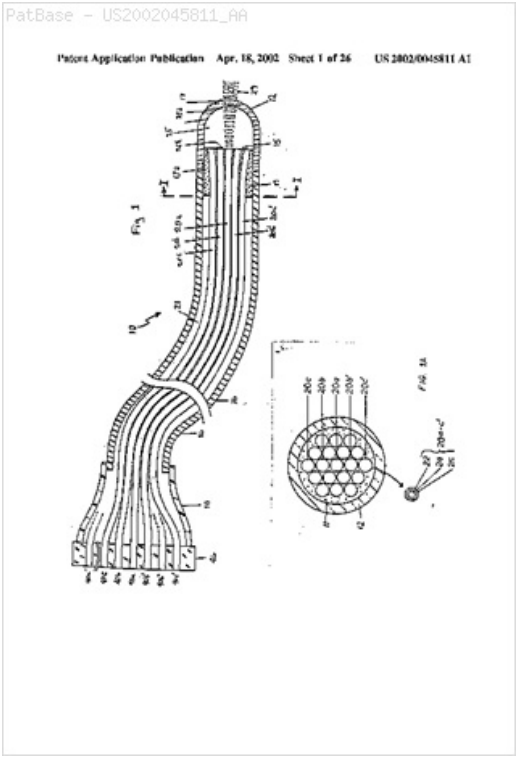
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Abstract:
Source: US2002045811A A laser catheter is disclosed wherein optical fibers carrying laser light are mounted in a catheter for insertion into an artery to provide controlled delivery of a laser beam for percutaneous intravascular laser treatment of atherosclerotic disease. A transparent protective shield is provided at the distal end of the catheter for mechanically diplacing intravascular blood and protecting the fibers from the intravascular contents, as well as protecting the patient in the event of failure of the fiber optics. Multiple optical fibers allow the selection of tissue that is to be removed. A computer controlled system automatically aligns fibers with the laser and controls exposure time. Spectroscopic diagnostics determine what tissue is to be removed.



73) Family number: 31377848 (US4832038A)

Title: **Apparatus** for monitoring cardiovascular regulation using heart rate power spectral analysis

Priority: CA19860510803 19860604 US19850742088 19850605 US19870009099 19870120 WO1986US01193 19860530

Family:

Publication number	Publication date	Application number	Application date
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ZA8604119 A	19870225	ZA19860004119	19860603

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Inventor(s):(std)**:** MCALPINE LAURA E ; MCALPINE LAURA ; MAKOTO R ARAI ; MAKOTO ARA ; LAURA E MEKALPINE ; LAURA E MCALPINE ; GORDON DAVID ; DAVID GORDON ; ARAI MAKOTO R ; ARAI MAKOTO ; OPALKA CHESTER JOSEPH JR ; MAKOTO ARAI ; LAURA MCALPINE ; HERRMANN JOHN LAWRENCE JR ; CHRISTIANSEN ROBERT GEORGE ; BELL MALCOLM RICE

Inventor(s): ROBERT GEORGE CHRISTIANSEN ; MALCOLM RICE BELL ; JOHN LAWRENCE HERRMANN JR ; CHESTER JOSEPH OPALKA JR

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; RIDOUT AND MAYBEE LLP

Designated states: AT AU BB BE BG BR CF CG CH CM DE DK 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

International class (IPC 8-9): A61B5/024 A61B5/0245 G06F17/00 (Advanced/Invention);
A61B5/024 G06F17/00 (Core/Invention);
A61B (Subclass/Invention)

International class (IPC 1-7): A61B5/02 A61B5/04 C07D G01N

CPC: A61B5/024 A61B5/02405 A61B5/4884 A61B5/7253 A61B5/7257

European class: A61B5/024 A61B5/024A A61B5/48X A61B5/72K10 K61B5/72K10B

US class: 128/670 600/483 600/515 600/519

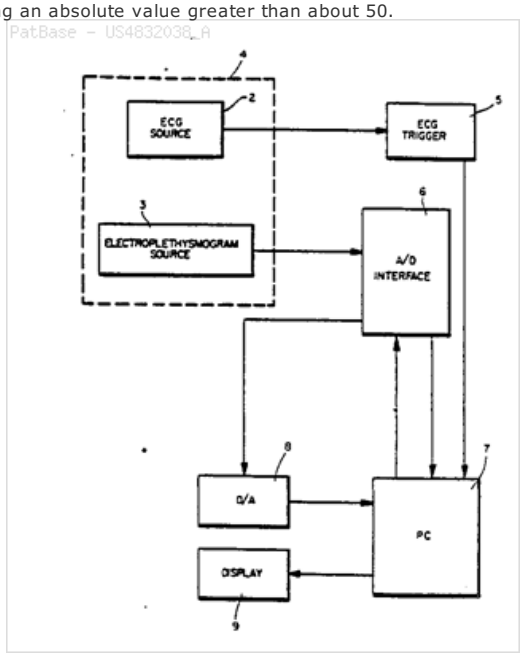
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Forward Citations: WO04016172, WO0180041, WO0180041, US9883809, US9861308, US9532721, US9433379, US9427583, US9414785, US9414757, US9364184, US9289167, US9220428, US9131902, US9044609, US9042969, US9026200, US9026199, US8998830, US8992434, US8942779, US8882684, US8880190, US8840564, US8838246, US8821418, US8734360, US8731646, US8718789, US8712531, US8684938, US8606359, US8583236, US8556818, US8442632, US8409107, US8290595, US8280508, US8086314, US8068900, US8060206, US7949400, US7840271, US7813812, US7792571, US7771364, US7604602, US7515956, US7509159, US7500955, US7416531, US7415304, US7413546, US7289845, US7272435, US7206631, US7203535, US7187966, US7162294, US7079888, US7072709, US6856831, US6804551, US6741885, US6740046, US6600949, US6589188, US6571122, US6571121, US6478744, US6436053, US6330469, US6216032, US6161037, US6115627, US6106481, US6035233, US5997482, US5984954, US5830148, US5755671, US5749900, US5466245, US5365428, US5012815, US2013245502, US2011112442, US2011040199, US2010280331, US2010185101, US2009318996, US2009192395, US2009076399, US2009012408, US2008275349, US2008269821, US2008177350, US2008033306, US2007203419, US2007021799, US2007021673, US2006173371, US2006009699, US2005256544, US2005251212, US2005234363, US2005234362, US2005234357, US2005234356, US2005234355, US2005234353, US2005010117, US2004243013, US2004127806, US2004111033, US2003109792, JP2010162282, JP2008036433, GB2370880, GB2370880, FR2855390, EP1804853, EP1804853, EP1151718, EP1146433, CN104023625,

Abstract:
Source: US4832038A **Apparatus** for heart rate fluctuation power spectrum analysis obtains an electrocardiogram signal from an electrocardiograph machine and a respiratory rate signal from an electroplethysmograph machine. These signals are processed by a data acquisition system to provide output suitable for heart rate fluctuation power spectrum analysis by a mini-micro-computer. Data manipulation includes correction of artifacts by substituting an appropriate heartbeat interval for detected heartbeat intervals for which the variance exceeds a preselected range of slewing rates. Trending of data and overlapping data analysis increase the analytical capabilities of the **apparatus**. Methods of treatment for conditions manifested by abnormalities in a heart rate fluctuation power spectrum involve applying treatments when spectral abnormalities are observed. Specific abnormalities indicating the need for treatment include: a level below about 0.1 (beats/min.)2 in the power spectrum of heart rate fluctuations at a frequency between about 0.04 and about 0.10 Hz; a marked increase to above about 10 (beats/min.)2 in heart

rate fluctuations at a frequency between 0.04 and about 0.10 Hz; and a ratio of the area under a heart rate fluctuation power spectrum of a peak at a frequency between about 0.04 and about 0.10 Hz to the area under a peak in the respiratory heart rate fluctuation power spectrum centered at the mean respiratory rate (as measured by the **apparatus**) at about 0.1 Hz as having a value less than 2.0 for longer than or equal to about one hour or as having an absolute value greater than about 50.



74) Family number: 30493453 (US5262319A)

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Title: METHOD FOR OBTAINING BONE MARROW FREE OF TUMOR CELLS USING TRANSFORMING GROWTH FACTOR BETA 3

Priority:

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Agent(s): FB RICE; FB RICE PTY LTD; PHILLIPS ORMONDE FITZPATRICK; DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; GOWLING LAFLEUR HENDERSON LLP; REINHOLD COHN AND PARTNERS

Designated states: AT AU BE BR CA CH DE DK ES FI FR GB GR HU IE IT JP KR LI LU MC NL NO NZ PL PT RU SE

International class (IPC 8-9): A61K35/12 A61K35/28 A61K35/44 A61K35/48 A61K35/50 A61K38/00 A61K38/08 A61K38/10 A61K38/16 A61K38/18 A61K38/19 A61K38/20 A61K38/22 A61K38/27 A61K39/395 A61K45/00 A61K51/00 A61P17/00 A61P25/00 A61P29/00 A61P31/12 A61P35/00 A61P37/04 A61P39/02 A61P43/00 A61P9/10 A61P9/12 C07K1/14 C07K1/16 C07K1/20 C07K1/22 C07K1/30 C07K14/00 C07K14/005 C07K14/195 C07K14/435 C07K14/47 C07K14/495 C07K14/52 C07K14/705 C07K16/00 C07K16/22 C07K16/24 C07K7/08 C12N1/11 C12N1/20 C12N1/21 C12N15/02 C12N15/09 C12N15/10 C12N15/16 C12N15/18 C12N15/79 C12N5/02 C12N5/078 C12N5/08 C12N5/10 C12P21/00 C12P21/02 C12P21/08 G01N33/53 G01N33/566 G01N33/574 G01N33/577 G01N33/68 G01N33/74 (Advanced/Invention);
A61K35/12 A61K35/44 A61K38/00 A61K38/16 A61K38/22 A61K39/395 A61K45/00 A61P17/00 A61P25/00 A61P29/00 A61P35/00 A61P43/00 C07K14/00 C07K14/005 C07K14/195 C07K14/435 C07K16/00 C12N1/20 C12N1/21 C12N15/02 C12N15/09 C12N15/16 C12N5/08 C12N5/10 C12P21/00 C12P21/02 C12P21/08 C12R1/19 C12R1/91 G01N33/53 G01N33/574 G01N33/577 G01N33/68 (Advanced/Non-invention);
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European class: A61K35/44 A61K35/50 A61K38/18E A61K38/19 A61K38/20A C07K14/00 C07K14/495 C07K14/52 C07K16/22 C07K16/24 G01N33/74 K61K38/00 M07K203/00 M07K205/00 M07K207/00 M07K209/00 M07K215/00 M07K319/00 M07K319/75

US class: 424/85.1 424/85.2 435/240.2 435/240.25 435/252.3 435/254.11 435/257.3 435/320.1 435/325 435/378 435/410 435/69.1 435/69.4 435/69.7 435/70.1 435/71.1 435/71.2 439/69.1 514/12 514/12.2 514/19.3 514/2 514/21 514/21.2 514/8.6 514/8.9 514/9.1 514/9.4 514/9.6 530/326 530/350 530/351 530/399 530/412 530/413 530/416 530/417 536/23.5

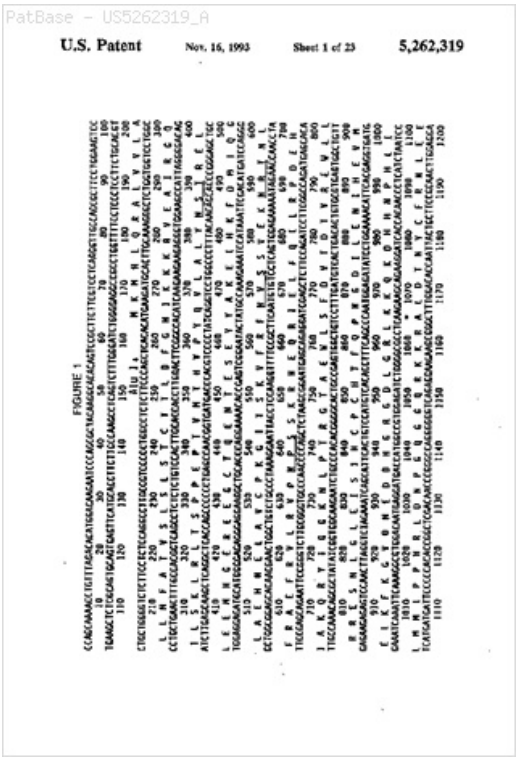
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Forward Citations: WO9958101, WO9807032, WO9739023, WO9640098, WO9640098, WO9618410, WO9316099, WO9316099, WO9014359, WO9010452, WO17204277, WO15064768, WO13100208, WO13014262, WO12090997, WO10061246, WO10060990, WO09043134, WO08067158, WO06030887, WO05044978, WO05044978, WO05041868, WO05041868, WO02076494, WO02076494, WO0124813, WO0124812, WO0038705, WO0020449, WO0020449, US9758577, US9758576, US9580500, US9573995, US9468612, US9399676, US9259443, US8946201, US8642034, US8518411, US8487006, US8158670, US8110655, US8097642, US8067022, US8012482, US7947264, US7902150, US7893221, US7842784, US7745411, US7625410, US7527791, US7511070, US7501452, US7482324, US7468193, US7459291, US7368111, US7288522, US7151169, US7094550, US7057016, US7057016, US6946118, US6930091, US6893665,

US6773704, US6734208, US6716818, US6713463, US6685917, US6683067, US6673341, US6649168, US6645477, US6569441, US6566338, US6559123, US6509028, US6495522, US6491938, US6491918, US6482926, US6458777, US6451784, US6420520, US6395494, US6306575, US6262079, US6251920, US6204240, US6117985, US6090383, US6071881, US5922846, US5827892, US5824297, US5801231, US5792882, US5662904, US5650494, US5604204, US5482851, US5445941, US5437863, US5422340, US5409896, US5284763, US5268455, US5135915, US5118791, US5061786, US4886747, US2011105396, US2010190735, US2010075923, US2009328250, US2009285785, US2009181430, US2009137475, US2009105146, US2009062247, US2009062210, US2008286229, US2008207515, US2007264289, US2007231274, US2007185077, US2007128284, US2007071824, US2007014861, US2007014860, US2005276802, US2005226866, US2005214910, US2005214252, US2005049549, US2005049403, US2004197333, US2004177700, US2004162415, US2004121991, US2004116355, US2004029843, US2003236217, US2003147886, US2003124190, US2003091566, US2003064069, US2003004108, US2002045604, KR100710963, JP63258497, JP2016500704, JP2013118877, EP2918288, EP2862867, EP2298336, EP2230252, EP1980246, EP1829546, EP1779863, EP0833624, EP0774252, EP0625989, EP0542679, EP0538398, EP0508983, EP0475719, EP0475719, EP0384494, EP0267463, EP0267463, DE3907822, AU781342,

Abstract:
Source: US5262319A The present invention provides (1) an antibody which (a) specifically binds to human TGF- beta 3 and (b) exhibits substantially no cross reactivity with TGF- beta 1 or TGF- beta 2 and (2) antibodies directed against the pro region of the TGF- beta precursor. Further, this invention provides a pharmaceutical composition comprising the pro region of the TGF- beta precursor. Also, this invention provides methods for diagnosing, detecting and treating subjects suffering from disorders associated with TGF- beta 3.



75) Family number: 4235905 (US4704118A)

Title: Ruminant dispensing **device** with thermo-activated memory

Priority: CA19860515467 19860807 US19850766456 19850816 US19870126460 19871127 US19870042197 19870424 US19870126079 19871127 US19890327935 19890323 US19890384613 19890725 US19900538953 19900615

Family:

Publication number	Publication date	Application number	Application date
AU198660880 A1	19870219	AU19860060880	19860805
AU585044 B2	19890608	AU19860060880	19860805
BE905262 A	19861201	BE19860217035	19860812
BRPI8603822 A	19870324	BR1986PI03822	19860811
CA1252362 A1	19890411	CA19860515467	19860807
DE3626362 A1	19870219	DE19863626362	19860804
DE3626362 C2	19960919	DE19863626362	19860804
ES556477 A0	19880101	ES19860556477	19860623
ES8801115 A1	19880101	ES19860556477	19860623
FR2586188 A1	19870220	FR19860011372	19860806
FR2586188 B1	19890901	FR19860011372	19860806
GB2178956 A1	19870225	GB19860018805	19860801
GB2178956 B2	19890906	GB19860018805	19860801
GB8618805 A0	19860910	GB19860018805	19860801
IT1195820 A	19881027	IT19860067653	19860811
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JP1925688 C3	19950425	JP19860182610	19860802
JP6057221 B4	19940803	JP19860182610	19860802
JP62044247 A2	19870226	JP19860182610	19860802
NL195083 C	20031002	NL19860001993	19860804
NL8601993 A	19870316	NL19860001993	19860804
NZ217053 A	19890727	NZ19860217053	19860801
US4704118 A	19871103	US19850766456	19850816
US4871544 A	19891003	US19870126460	19871127
US4883667 A	19891128	US19870126079	19871127
US4955881 A	19900911	US19890384613	19890725
US4966767 A	19901030	US19890327935	19890323
US5098425 A	19920324	US19900538953	19900615
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Probable Assignee: ALZA A CORP OF CA CORP

Assignee(s):(std)**:** ALZA CORP

Assignee(s): ALZA CORP PALO ALTO CALIF US ; ALZA TE PALO ALTO CALIFORNIE VER ST V AM CORP ; ALZA TE PALO ALTO CALIFORNIE VER ST V CORP ; ECKENHOFF JAMES B ; ALZA A CORP OF CA CORP

Inventor(s):(std)**:** ECKENHOFF J B ; ECKENHOFF JAMES B ; JAMES B ECKENHOFF ; JIEEMUSU BII ETSUKENHOFU

Inventor(s): B ECKENHOFF JAMES ; ECKENHOFF JAMES B LOS ALTOS CALIF US

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; SMART AND BIGGAR

International class (IPC 8-9): A61D7/00 A61K9/00 A61K9/22 A61K9/52 A61M31/00 (Advanced/Invention); A61D7/00 A61K9/22 A61K9/52 (Advanced/Non-invention); A61D7/00 A61K9/00 A61K9/22 A61K9/52 A61M31/00 (Core/Invention)

International class (IPC 1-7): A23K1/18 A23P1/04 A61D7/00 A61J3/00 A61J3/07 A61J3/07 A61J3/7 A61K31/18 A61K31/41 A61K31/415 A61K31/425 A61K31/43 A61K31/505 A61K31/545 A61K31/65 A61K31/74 A61K37/24 A61K9/00 A61K9/22 A61K9/24 A61K9/48 A61K9/52 A61K9/54 A61M31/00 A61M37/00 B01J4/04

CPC: A61K9/0004 A61M31/002

European class: A61K9/00L4 A61M31/00D

US class: 424/438 424/457 424/468 424/472 424/473 604/890.1 604/891.1 604/892 604/892.1

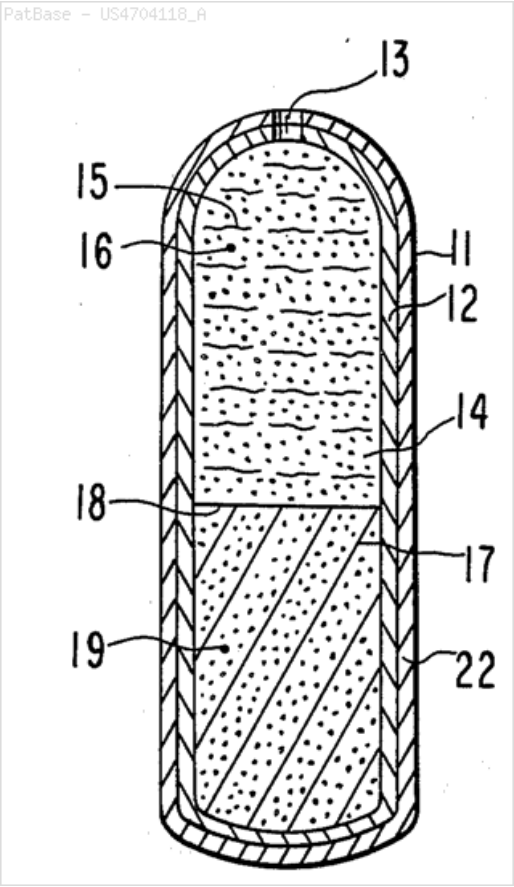
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Cited documents: US4783337 A, US4772474 A, US4765989 A, US4717568 A, US4717566 A, US4704118 A, US4692336 A, US4627971 A, US4612186 A, US4595583 A, US4468220 A, US4381780 A, US4327725 A, US4326522 A, US4320759 A, US4300558 A, US4298003 A, US4285987 A, US4235236 A, US4228149 A, US4200098 A, US4196187 A, US4178361 A, US4111202 A, US4088864 A, US4058122 A, US4034756 A, US3995632 A, US3995631 A, US3929132 A, US3845770 A, US3844285 A, US3769895 A, US3769805 A, US3760804 A, US3732865 A, US3594469 A, US2340037 A, JP61184111 A2, GB2155787 A1, GB2122086 A1, FR1540258 A, EP0040457 A2, DE3417113 A1, DE3015870 A1, DE2729068 A1, BE901941 A, AU19250 A1,

Forward Citations: WO8904648, USRE35162, US9867880, US9827352, US9801982, US9801913, US9682175, US9668915, US9592324, US9492596, US9427423, US9278161, US9220820, US9012506, US9000040, US8962023, US8939435, US8911425, US8858978, US8795703, US8722132, US8722077, US8574627, US8574618, US8501229, US8475841, US8367099, US8353426, US8312836, US8263102, US8202316, US8124127, US8113390, US7919116, US7761175, US7614568, US7481826, US7182957, US6953586, US6790459, US6730327, US6656501, US6645192, US6551542, US6537584, US6495162, US6284275, US6180150, US6099862, US6099859, US5925030, US5861142, US5840074, US5807727, US5609885, US5607696, US5591445, US5531786, US5531780, US5498254, US5496360, US5474785, US5447533, US5383929, US5383873, US5368863, US5312390, US5282857, US5229133, US5227167, US5226902, US5223266, US5215753, US5213809, US5156623, US5137731, US5126142, US5108756, US5093128, US5045082, US5019396, US5000957, US4955881, US4872873, US4844984, US2012121754, US2012078362, US2011195119, US2011106063, US2009216323, US2009047414, US2008257915, US2008138135, US2007001024, US2006069361, US2006034922, US2006008525, US2006008523, US2005169966, US2005079214, US2005070959, US2005060448, US2004219209, US2004101540, US2004052848, US2004047888, US2003139495, US2003124189, JP2015171553, EP1138207, EP0297725, CN104427888, AU627163,

Abstract:
Source: US4704118A A dispensing **device** is disclosed for delivering a beneficial agent. The **device** comprises (1) a housing defining an internal space, (2) an expandable composition comprising a dense member in the space, (3) a composition comprising a beneficial agent and a non-toxic heat responsive carrier in the space, and (4) a passageway in the housing for delivering the beneficial agent from the dispensing **device**.

PatBase - US4704118_A



76) Family number: 3834276 (US4655744A)

Title: Method for dissolving a solidified mass in vivo, and **apparatus** for use in said method

Priority:

AU19860062355 19860903	CA19850478611 19850409	CA19860517483 19860904
CA19860615901 19860904	CA19860615902 19860904	CA19850490436 19850911
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Family:

Publication number	Publication date	Application number	Application date
AT82864 E	19921215	AT19860112314T	19860905
AU198662355 A1	19870312	AU19860062355	19860903
AU198769706 A1	19870625	AU19870069706	19870304
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EP0214629 B1	19921202	EP19860112314	19860905
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US4755167 A	19880705	US19840599398	19840410
US4758596 A	19880719	US19840649389	19840911
US4793776 A	19881227	US19870130134	19871208

Probable Assignee: RESEARCH A NEW YORK NOT FOR PROFIT CORP

Assignee(s):(std)**:** RESEARCH CORP ; RES CORP TECHNOLOGIES INC

Assignee(s): RESEARCH A NEW YORK NOT FOR PROFIT CORP ; ALLEN MARK J ; CASKEY PATRICK E ; FJERSTAD WAYNE H ; RESEARCH TECHNOLOGIES INC CORP ; RESEARCH CORP TECHNOLOGIES INC ; RESEARCH A NY NOT FOR PROFIT CORP CORP ; RESEARCH A NEW YORK NOT FOR PROFIT CORP CORP ; RESEARCH CORP TECHNOLOGIES INC TUCSON ARIZ US ; THISTLE JOHNSON L ; RESEARCH A NOT FOR PROFIT CORP OF NEW YORK CORP

Inventor(s):(std)**:** CASKEY PATRICK E ; FJERSTAD WAYEN H ; FJERSTAD WAYNE H ; WAYNE FJERSTAD H ; THISTLE L JOHNSON ; PATRICK CASKEY E ; JOHNSON THISTLE L ; FJERSTAD H WAYNE ; CASY PATRICK E ; CASKEY E PATRICK ; CASEY PATRICK E ; UEIN ETSUCHI FUIERUSUTATSUDO ; PATORIKU I KASUKII ; JIYONSON ERU SHISURU ; ALLEN MARK J ; THISTLE JOHNSON L

Inventor(s): WAYNE H FJERSTAD ; JOHNSON L THISTLE ; PATRICK E CASEY ; PATRICK E CASKEY ; PATRICK E CASY

Agent(s): MCFADDEN FINCHAM; OSLER HOSKIN AND HARCOURT LLP; GE EHRLICH 1995 LTD; AE MULFORD

Designated states: AT BE CH DE FR GB IT LI LU NL SE

International class (IPC 8-9): A61B17/22 A61B17/221 A61K31/08 A61M1/00 A61M1/10 (Advanced/Invention);
A61B17/22 (Advanced/Non-invention);
A61K31/075 A61M1/00 (Core/Invention);
F04B (Subclass/Invention)

International class (IPC 1-7): A61B17/22 A61K31/08 A61M1/00 A61M1/10 A61M37/00 A61M5/00 F04B13/02 F04B23/00 F04B39/14 F04B9/02

CPC: Y10S514/877 A61K31/08 A61M1/0068 A61M1/0062 A61B2017/22084

European class: A61K31/08 A61M1/00K2 K61B17/22S2

US class: 417/360 417/415 514/722 514/877 604/152 604/22 604/27 604/276 604/28 604/319 604/48

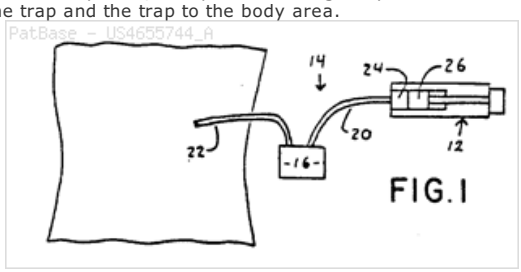
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Forward Citations: WO9220290, WO9112830, US7713540, US7481791, US7316911, US7314728, US7311908, US7297133, US7244426, US7195903, US7144383, US7138114, US7033776, US6746419, US6623445, US6595971, US6234771, US6213970, US6126203, US6022329, US5836951, US5788465, US5752971, US5718668, US5630706, US5557154, US5527336, US5527274, US5514088, US5491372, US5470305, US5433708, US5312430, US5273027, US5253981, US5243986, US5213571, US5212202, US5191900, US5098377, US5078144, US5047012, US5018508, US4994025, US4931038, US4902276, US2010209269,

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Abstract:
Source: US4655744A A method for dissolving a solidified mass in vivo, and **apparatus** for oscillating a **fluid** into and out from a body area. The method comprises introducing a dissolving agent into a body area, and oscillating an agitating **fluid** into and out from that body area to stir the dissolving agent therein. Body **fluids** withdrawn from the body area with the agitating **fluid** are separated therefrom, and the separated agitating **fluid** is reintroduced into the body area to further stir the dissolving agent. The **apparatus** comprises a pump to force **fluid** into and to draw the **fluid** from a body area, a trap for collecting body **fluids** aspirated from the body area, and **fluid** **lines** to **connect** the pump to the trap and the trap to the body area.



77) Family number: 29369633 (US4664843A)

© PatBase

Title: MIXED METAL LAYERED HYDROXIDE-CLAY ADDUCTS AS THICKENERS FOR WATER AND OTHER HYDROPHYLIC **FLUIDS**

Priority:

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Agent(s): PHILLIPS ORMONDE FITZPATRICK; SMART AND BIGGAR; EITAN PEARL LATZER AND COHEN ZEDEK

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Abstract:
Source: US4664843A Novel compositions useful as **fluid** gelling agents, especially for use in subterranean applications such as drilling **fluids**, are prepared by reacting an aqueous dispersion of a clay, such as bentonite, with an aqueous gel of a monodispersed mixed metal layered hydroxide of the formula LimDdT(OH)m+2d+3+na)Aan, where D is a divalent metal, such as Mg, T is a trivalent metal, such as Al, and A represents other monovalent or polyvalent anions, the formula being described in detail in the disclosure.

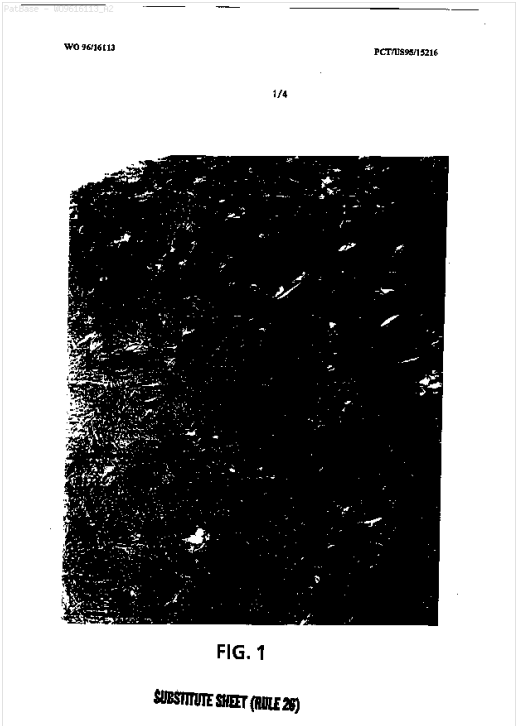


FIG. 1

SUBSTITUTE SHEET (RULE 26)

78) Family number: 15026923 (US4756884A)

Title: CAPILLARY FLOW **DEVICE**

Priority:
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Family:

Publication number	Publication date	Application number	Application date
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AU593001 B2	19900201	AU19860060884	19860805
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US5300779 A	19940405	US19920931719	19920818

Probable Assignee: ROCHE DIAGNOSTICS OPERATIONS INC

Assignee(s):(std)**:** BIOTRACK ; BIOTRACK INC ; BOEHRINGER MANNHEIM CORP

Assignee(s): BIOTRACK INC MOUNTAIN VIEW CALIF ; BIOTRACK INC MOUNTAIN VIEW CALIF US ; BOEHRINGER MANNHEIM CORP INDIANAPOLIS IND US ; COBB MICHAEL E ; HILLMAN ROBERT S ; OSTOICH VLADIMIR E ; WINFREY LAURA J ; CIBA CORNING DIAGNOSTICS CORP ; ROCHE DIAGNOSTICS CORP ; ROCHE DIAGNOSTICS OPERATIONS INC ; BIOTRACK A CORP ; BIOTRACK A CORP OF CA ; ALLEN JIMMY D ; BAIOTORATSUKU INC

Inventor(s):(std)**:** ALLEN JIMMY D ; COBB MICHAEL E ; GIBBONS IAN ; HILLMAN ROBERT S ; WINFREY LAURA J ; WINFREY LARA J ; URAJIMIRU II OSUTOITSUCHI ; ROORA JIEI UINFUREI ; ROBAATO ESU HIRUMAN ; OSTOICH VLADIMIR ; MAIKERU II KOBU ; JIMII DEII AREN ; ALLEN JIM ; OSTOICH VLADIMIR E

Inventor(s): ROBERT S HILLMAN ; VLADIMIR E OSTOICH ; GIBBONS IAN PORTOLA VALLEY CA 94028 US ; GIBBONS IAN MENLO PARK CALIFORNIA 94025 US ; GIBBONS IAN MENLO PARK CA 94025 US ; GIBBONS IAN MENLO PARK CA 94025 ; GIBBONS IAN MANLO PARK CA 94025 US ; IAN GIBBONS ; JIMMY D ALLEN ; LAURA J WINFREY ; MICHAEL E COBB

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; FETHERSTONHAUGH AND CO

Designated states: AT BE CH DE FR GB IT LI LU NL SE

International class (IPC 8-9):
B01F1/00 B01F13/00 B01F3/12 B01F5/06 B01L3/00 B29C45/00 B29C59/16 B29C65/08 B29C65/48 G01N15/10 G01N15/14 G01N21/00 G01N21/01 G01N21/03 G01N21/47 G01N21/49 G01N21/82 G01N31/22 G01N33/483 G01N33/487 G01N33/49 G01N33/53 G01N33/543 G01N33/86 G01N35/00 G01N35/02 G01N37/00 (Advanced/Invention);
B01F1/00 B01F3/12 B29C45/00 B29C59/16 G01N15/10 G01N15/14 G01N21/00 G01N21/01 G01N21/03 G01N21/47 G01N21/49 G01N31/22 G01N33/483 G01N33/53 G01N33/543 G01N33/86 G01N35/00 G01N35/02 G01N37/00 (Advanced/Non-invention);
B01F13/00 B01F5/06 B01L3/00 B29C65/08 G01N21/77 G01N33/483 G01N33/487 G01N33/49 G01N33/86 (Core/Invention);

B01F1/00 B01F3/12 B29C45/00 B29C59/00 G01N15/10 G01N21/03 G01N21/47 G01N33/543 G01N35/00 (Core/Non-invention)

International class (IPC 1-7): B01L3/00 B29C65/08 G01D18/00 G01N11/04 G01N15/06 G01N15/14 G01N21/00 G01N21/01 G01N21/03 G01N21/05 G01N21/47 G01N21/49 G01N21/51 G01N21/82 G01N31/22 G01N33/48 G01N33/483 G01N33/50 G01N33/52 G01N33/53 G01N33/543 G01N33/86 G01N35/00 G01N35/02 G02F1/13

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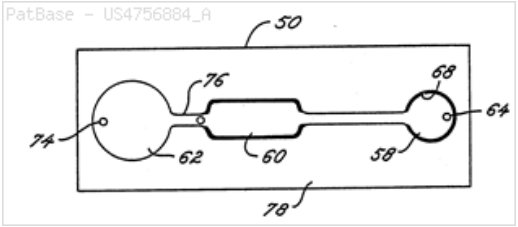
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Abstract:
Source: US4756884A Methods and **devices** are provided involving at least one chamber, at least one capillary, and at least one reagent involved in a system providing for a detectable signal. As appropriate, the **devices** provide for measuring a sample, mixing the sample with reagents, defining a flow path, and reading the result. Of particular interest is the use of combinations of specific binding pair members which result in agglutination information, where the resulting agglutination particles may provide for changes in flow rate, light patterns of a flowing medium, or light absorption or scattering. A fabrication technique particularly suited for forming internal chambers in plastic **devices** is also described along with various control **devices** for use with the **device**.

PatBase - US4756884_A



79) Family number: 30163339 (US4750488A)

Title: Vibration **apparatus** preferably for endoscopic ultrasonic aspirator

Priority:
CA19860516279 19860819 CA19860616191 19860819 CA19865162793 19860819
EP19860905555 19860827 US19890329747 19890328 US19850770342 19850828
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US19920866953 19920409 WO1986US01738 19860827

Family:

Publication number	Publication date	Application number	Application date
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CA1318000 A1	19930518	CA19860616191	19860819
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Agent(s): OSLER HOSKIN AND HARCOURT LLP

Designated states: AT BE CH DE FR GB IT JP LI LU NL SE

International class (IPC 8-9):
A61B1/00 A61B17/00 A61B17/22 A61B17/32 A61B18/00 A61B18/12 A61B18/14 A61B18/20 A61H21/00 A61H23/02 A61M1/00 B06B1/02 (Advanced/Invention);
A61B10/00 A61B10/02 A61B17/32 A61B18/00 (Advanced/Non-invention);
A61B1/00 A61B17/22 A61B17/32 A61B18/12 A61B18/14 A61B18/20 A61H23/02 A61M1/00 B06B1/02 (Core/Invention);
A61B10/00 A61B10/02 A61B17/32 A61B18/00 (Core/Non-invention)

International class (IPC 1-7): A61B1/00 A61B17/00 A61B17/20 A61B17/22 A61B17/32 A61B17/36 A61B17/39 A61H21/00 A61H23/02 A61M1/00

CPC: A61B10/02 A61B17/22012 A61B18/14 A61B18/1402 A61B2017/22008 A61B2017/22018 A61B2017/32008 A61B2017/320088 A61B2018/00982 A61M1/0056 A61M1/0058 B06B1/0261

European class: A61B17/22B2 A61B18/14 A61B18/14B A61M1/00H14 A61M1/00K B06B1/02D3C2C K61B10/02 K61B17/22B1C2 K61B17/22B2B2S K61B17/32U2P K61B17/32U6 K61B18/00R K61M1/00T2

US class: 128/303R 600/104 600/108 600/158 604/22 604/27 604/43 606/128 606/16 606/168 606/34 606/42 606/46

Classification Explorer

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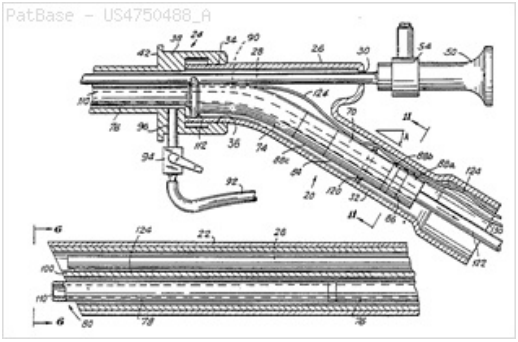
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Abstract:
Source: US4750488A A method and **apparatus** for endoscopic removal of compliant biological tissues utilizing an endoscopic ultrasonic aspirator comprising irrigation and aspiration means, a piezoelectric ultrasonic transducer, a first resonator such as a half-wave stepped velocity transformer, a probe including a second resonator such as a constant-stress velocity transformer, a blunt or modified working tip of open channel means or restricted tubular means for application of ultrasonic energy to cellular material, and a capacitive **fluid** sensor to detect the presence of irrigation **fluid** adjacent these transformers within the instrument. The surgery is advantageously performed by operating the transducer in the 10-20 kHz range to achieve maximum cavitation of the intracellular **fluids** in the tissues to be removed.



80) Family number: 12344715 (US4777136A)

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Title: Monoclonal antibody reactive with Pseudomonas Aeruginosa

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Probable Assignee: OF CALIFORNIA UNIV

Assignee(s):(std)**:** RIIJENTSU OBU ZA UNIV OBU KARI ; UNIV CALIFORNIA ; PFIZER

Assignee(s): PFIZER INC ; PFIZER INC 235 EAST 42ND ST NEW YORK NY 10017 A CO ; OF CALIFORNIA 2199 ADDISON ST BERKELEY CA 94720 UN ; OF CALIFORNIA THE UNIV ; OF CALIFORNIA UNIV ; UNIV ; THE REGENTS OF THE UNIVERSITY OF CALIFORNIA ; REGENTS OF THE UNIVERSITY OF CALIFORNIA THE ; UNIVERSITY OF CALIFORNIA THE REGENTS OF THE ; THE REGENTS OF THE UNIVERSITY OF CALIFORNIA BERKELEY CALIF US ; PFIZER INC 235 EAST 42ND ST NEW YORK NY 10017 A CORP OF DE ; THE UNIV OF CALIFORNIA ; THE UNIV OF CALIFORNIA BERKELEY CALIF

Inventor(s):(std)**:** ALAM SUSAN ; ALAM SUSAN AKA SOOSAN ; ALRAM SUZAN ; JACKOBSON MARK A ; JACOBSON MARK A ; LOWELL S YOUNG ; MAAKU EI YAKOBUSON ; ROOUERU ESU YANGU ; YOUNG LOWELL S ; SUSAN ALAM

Inventor(s): SUUZAN ARAAMU ; YOUNG LOWELL S SAN FRANCISCO CA 94109 US ; MARK A JACKOBSON ; ROOERU ESU YANGU ; JACKOBSON MARK A OAKLAND CA 94602 US ; ALAM SUSAN SHERMAN OAKS CA 94103 US

Agent(s): FB RICE; FB RICE PTY LTD; REINHOLD COHN AND PARTNERS

Designated states: AT BE CH DE ES FR GB GR IT LI LU NL SE

International class (IPC 8-9): A61K31/715 A61K38/00 A61K39/02 A61K39/104 A61K39/40 C07K14/005 C07K14/195 C07K14/41 C07K16/00 C07K16/12 C07K19/00 C12N15/00 C12N15/02 C12N15/12 C12N5/00 C12N5/10 C12P19/04 C12P21/00 C12P21/08 G01N33/531 G01N33/543 G01N33/569 G01N33/577 (Advanced/Invention);
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A61K31/715 A61K39/104 A61K39/40 C12P19/00 C12P21/00 C12P21/08 G01N33/531 G01N33/543 G01N33/569 (Core/Invention);
C12N1/20 C12N15/00 (Core/Non-invention)

International class (IPC 1-7): A61K31/735 A61K37/20 A61K39/00 A61K39/02 A61K39/104 A61K39/395 A61K39/40 A61K39/44 A61K48/00 C01K15/28 C07G17/00 C07K15/00 C07K15/04 C07K15/08 C07K15/12 C07K15/28 C07K16/12 C08B37/00 C12N1/00 C12N1/20 C12N15/00 C12N15/02 C12N15/12 C12N5/00 C12N5/18 C12N5/22 C12P19/04 C12P21/00 C12P21/08 C12R1/19 C12R1/385 C12R1/91 G01N23/53 G01N23/569 G01N33/53 G01N33/531 G01N33/543 G01N33/569 G01N33/577

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European class: A61K31/715 A61K39/104 C07K16/12A C07K16/12A14 G01N33/569 G01N33/569D G01N33/569D2 K61K38/00 M07K203/00 M07K207/00 M07K209/00 M07K317/770 S01N333/21 S01N400/50

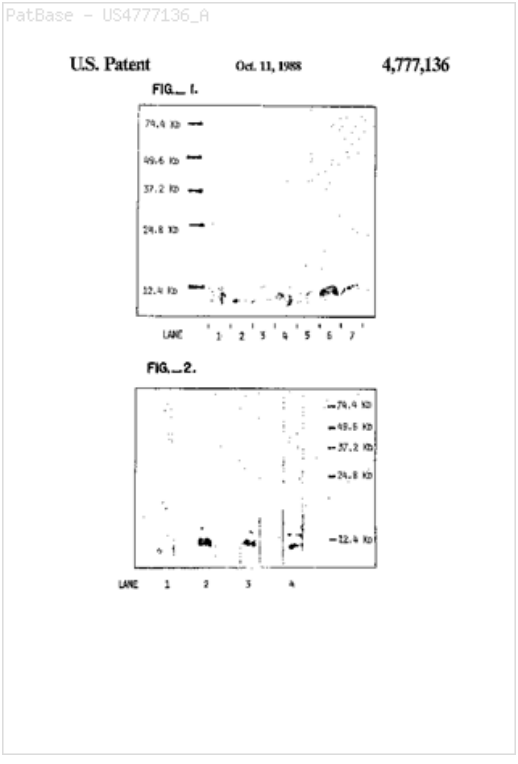
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Classification Explorer

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Forward Citations: WO9414437, WO9220715, WO9201228, WO8808135, WO04036212, WO04036212, WO02057482, WO02057482, WO0106258, US9855344, US9797907, US9770517, US9757458, US9737617, US9707302, US9663576, US9629926, US9550838, US9522959, US9499631, US9493574, US9493573, US9492566, US9481732, US9475884, US9475883, US9458242, US9375489, US9359443, US9226973, US9192664, US9107960, US9040250, US9028833, US8986699, US8906378, US8883160, US8871216, US8846002, US8715949, US8481003, US8475794, US8420086, US8383081, US8367037, US8349332, US8343496, US8263078, US8173130, US8119101, US7829064, US7144704, US7135175, US7132101, US7018636, US6790661, US6749831, US6660267, US6630327, US6495332, US6384200, US6365357, US6297049, US6222021, US6193969, US6045795, US6030796, US5965695, US5952313, US5888519, US5883227, US5863882, US5843918, US5837541, US5807694, US5773280, US5770390, US5756718, US5747455, US5733742, US5730980, US5717071, US5662905, US5645997, US5628996, US5627266, US5627067, US5614369, US5612476, US5594113, US5545721, US5530113, US5521085, US5449619, US5434075, US5378812, US5370872, US5356778, US5279956, US5252480, US5233024, US5198339, US5196337, US5179018, US5179001, US4834976, US2014197850, US2011171126, US2011158905, US2011070155, US2010272636, US2010266496, US2010239583, US2010129836, US2010112719, US2009214575, US2009191208, US2008176933, US2008064050, US2007254322, US2006211051, US2006057700, US2006018916, US2005009123, US2004248241, US2004219587, US2004219203, US2003166874, RU2536209, JP5777877, JP2011102805, JP2003517586, GB2218703, GB2218703, FR2601458, EP2865688, EP2308898, EP2301581, EP1706425, EP1196778, EP1027895, EP0727038, EP0641568, EP0586573, EP0554364, EP0327648, DE3843784, DE10247430, CZ300108, BE1017758, BE1000743, AU660268, AU2008202582, AU2008202582,

Abstract:
Source: US4777136A A hybridoma cell **line** identified by ATCC #HB8909, capable of producing monoclonal antibodies reactive with an antigenic determinant of lipopolysaccharide which is common to all strains of Pseudomonas aeruginosa and to Pseudomonas maltophilia, and is not reactive substantially with any antigenic determinant of other clinically important gram-negative bacteria is disclosed. Methods of producing the hybrid as well as diagnostic, prophylactic and therapeutic use of the monoclonal antibodies are also disclosed.



81) Family number: 30560641 (US4671753A)

Title: **APPARATUS** FOR MOLDING

Priority:

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Family:

Publication number	Publication date	Application number	Application date
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WO9956930 A1	19991111	WO1999US09382	19990430

Probable Assignee: INNOVATIVE PROCESS CORP

Assignee(s):(std)**:** LEROY PAYNE ; PAYNE LE ROY ; PAYNE LEROY

Assignee(s): INNOVATIVE PROCESS 4643 SOUTH ULSTER STREET SUITE ; INNOVATIVE PROCESS 4643 SOUTH ULSTER STREET SUITE 1560 DENVER COLORADO 80237 A NEVADA CORP CORP ; INNOVATIVE PROCESS CORP

Inventor(s):(std)**:** LEROY PAYNE ; PAYNE LE ROY ; PAYNE LEROY

Agent(s): GOWLING LAFLEUR HENDERSON LLP

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

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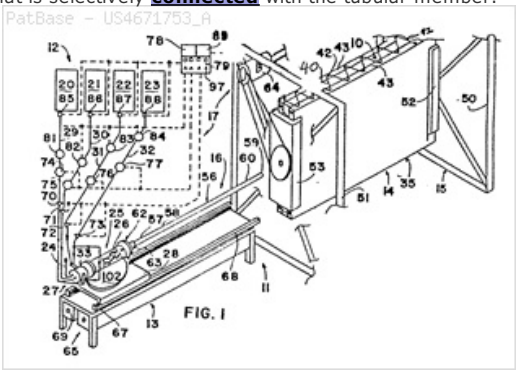
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Classification Explorer

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Forward Citations: WO9956930, WO9956929, WO9932270, WO9914027, WO9716297, WO9616784, WO9532854, WO9532853, WO9532852, WO9515246, WO9322123, WO9303900, WO17081030, WO15017461, WO14000727, WO14000727, WO09032745, WO09032745, WO04022237, WO03008493, WO03008493, WO0038897, USRE43253, USD648038, USD438836, US9840026, US9836801, US9776455, US9766221, US9533462, US9457398, US9421710, US9388565, US9327431, US9254583, US9186823, US9144927, US9138945, US8969435, US8950135, US8911229, US8752348, US8726594, US8671850, US8617453, US8550012, US8496860, US8431179, US8307769, US8283437, US8251691, US8246341, US8209938, US8109757, US8048219, US8029263, US8020353, US8017107, US7985781, US7964272, US7963080, US7947784, US7814638, US7790302, US7767781, US7750109, US7735287, US7718115, US7677009, US7666517, US7666258, US7635114, US7628604, US7615511, US7556756, US7309756, US7304123, US7302983, US7273571, US7273364, US7256241, US7230044, US7186666, US7165964, US7151143, US7150845, US7071291, US7056764, US7022806, US7022270, US7004736, US6994914, US6983571, US6969482, US6962968, US6960626, US6906147, US6899833, US6878325, US6855798, US6835338, US6831138, US6716384, US6713601, US6604931, US6602452, US6555188, US6555037, US6516736, US6514061, US6511619, US6478176, US6409954, US6398995, US6383437, US6352658, US6338623, US6296792, US6248280, US6241931, US6241505, US6199593, US6099293, US6076693, US6076582, US6036897, US6030557, US6010650, US5989003, US5950627, US5942258, US5942173, US5868979, US5851291, US5846462, US5811160, US5796620, US5791293, US5746038, US5705200, US5693271, US5634309, US5624614, US5587182, US5554394, US5519211, US5507632, US5503780, US5453230, US5316701, US5273190, US5242291, US5188845, US5173221, US5169652, US5147653, US4962729, US4956135, US2016023381, US2015211203, US2015118341, US2014300022, US2014222209, US2014141114, US2013230618, US2012225155, US2012032373, US2011254187, US2011214391, US2011214375, US2011138725, US2011100270, US2011024031, US2010178414, US2010088988, US2010021333, US2009258192, US2009166922, US2009062427, US2009043398, US2008314295, US2008241302, US2008190332, US2008181981, US2008172855, US2008083186, US2007275229, US2007158629, US2007096369, US2007063381, US2007063370, US2006257518, US2006170135, US2006131791, US2006071358, US2005184422, US2005184419, US2005171140, US2005129921, US2005129901, US2005029706, US2004247887, US2004195722, US2004121100, US2004010225, US2004004308, US2003227427, US2003219560, US2003219506, US2003201559, US2003197306, US2003197296, US2002187213, US2002129555, TWI429690, NL1019342, KR101635371, GB2424206, GB2274426, GB2274426, ES2204217, EP2844446, EP1961398, EP1757424, EP1497093, EP1497093, EP1429685, EP1297939, EP1057604, EP0858386, EP0858386, EP0360799, DE102014111685, CN102227294, AU691708,

Abstract:
Source: US4671753A Rotational molding **apparatus** includes a chemical supplying portion, a chemical mixing portion, a mold portion, a mold supporting portion, a mixture delivery portion and a control portion. The chemical mixing portion includes a tubular member disposed in a substantially horizontal orientation with a plurality of spaced angled deflector sections. The mold portion includes a pair of spacially **connected** substantially parallel frame sections. The mold supporting portion includes spaced upstanding sections with rotating clamping members selectively engageable with opposite edges of the mold portion. The mixture delivery portion includes a translatable elongated hollow probe member that is selectively **connected** with the tubular member.



82) Family number: 3266896 (US4778688A)

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Title: Production of low-ethanol beverages by membrane extraction

Priority: CA19860520030 19861007 US19850786787 19851011 US19860897489 19860818 US19890296255 19890112 US19890382615 19890719 US19860786787 19861011 WO1990US00227 19900111 US19910695040 19910502 WO1986US02088 19861008 US19900463098 19900110

Family:

Publication number	Publication date	Application number	Application date
AU198664741 A1	19870505	AU19860064741	19861008
AU199051024 A1	19900813	AU19900051024	19900111
CA1272146 A1	19900731	CA19860520030	19861007
DK296187 A	19870811	DK19870002961	19870610
DK296187 A0	19870610	DK19870002961	19870610
EP0242384 A1	19871028	EP19860906206	19861008
EP0242384 A4	19880208	EP19860906206	19861008
ES2002658 AF	19880916	ES19860002547	19861010
ES2007248 AF	19890601	ES19880002055	19880630
ES2007249 AF	19890601	ES19880002057	19880630
ES2007516 AF	19890616	ES19880002056	19880630
ES2007517 AF	19890616	ES19880002058	19880630
JP63501763 T2	19880721	JP19860505480	19861008
KR19887000057 A	19880215	KR19877000490	19861008
NZ232088 A	19910827	NZ19900232088	19900112
US4778688 A	19881018	US19850786787	19851011
US4816407 A	19890328	US19860897489	19860818
US4933198 A	19900612	US19890296255	19890112
US5013436 A	19910507	US19890382615	19890719
US5013447 A	19910507	US19900463098	19900110
US5143526 A	19920901	US19910695040	19910502
WO8702380 A1	19870423	WO1986US02088	19861008
WO9008183 A1	19900726	WO1990US00227	19900111

Probable Assignee: SEPRACOR INC

Assignee(s):(std)**:** KALYANI VINAY J ; LEE ERIC K L ; MATSON STEPHEN L ; SEPRACOR ; SEPRACOR INC ; SEPREACOR INC

Assignee(s): SEPRACOR INC 33 LOCKE DRIVE MARLBOROUGH MA 01752 A

Inventor(s):(std)**:** KALYANI VINAY J ; LEE ERIC K ; LEE ERIC K L ; MATSON STEPHEN L

Inventor(s): STEPHEN L MATSON ; VINAY J KALYANI ; ERIC K LEE

Agent(s): PHILLIPS ORMONDE FITZPATRICK; OSLER HOSKIN AND HARCOURT LLP

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 KR LI LK LU MC MG ML MR MW NL NO RO SD SE SN SU TD TG

International class (IPC 8-9): B01D11/04 B01D3/32 B01D61/00 B01D61/36 B01D61/38 C12G3/08 C12H3/04 C12M1/12 (Advanced/Invention);
B01D61/00 (Advanced/Non-invention);
B01D11/04 B01D3/14 B01D61/00 B01D61/36 B01D61/38 C12G3/00 C12H3/00 C12M1/12 (Core/Invention)

International class (IPC 1-7): B01D13/00 B01D61/36 B01D63/02 C12G3/00 C12G3/08 C12G3/08 C12G3/10 C12M1/00

CPC: B01D3/322 B01D11/0415 B01D61/00 B01D61/005 B01D61/246 B01D61/38 B01D63/02 C12G3/085 B01D61/362 B01D2313/243 B01D2313/46 B01D2313/90

European class: B01D11/04C B01D3/32B B01D61/00 B01D61/00B10 B01D61/24D B01D61/36B B01D61/38 B01D63/02 C12G3/08B L01D313/24B L01D313/46 L01D313/90

US class: 210/195.2 210/321.65 210/321.8 210/321.89 210/634 210/640 210/641 210/644 210/651 426/14 426/16 426/319 426/387 426/425 426/475 426/478 426/487 426/492 426/493 426/592 435/287 435/311 96/10 99/277

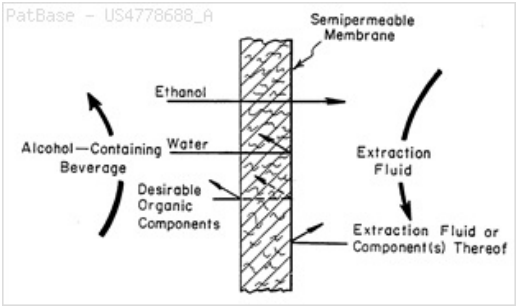
Classification Explorer

Cited documents: US5013436 A, US4888189 A, US4816407 A, US4804554 A, US4781837 A, US4778688 A, US4755299 A, US4681767 A, US4655927 A, US4650574 A, US4617127 A, US4612196 A, US4610887 A, US4610791 A, US4591440 A, US4581236 A, US4539117 A, US4532140 A, US4499117 A, US4443414 A, US4405652 A, US4401678 A, US4311594 A, US4218312 A, US4083904 A, US4015020 A, US3957504 A, US3956112 A, US3947163 A, US3915820 A, US3865961 A, US3865960 A, US3847163 A, US3713838 A, US3634128 A, US3552574 A, US3502651 A, US3335545 A, US3291613 A, US3275528 A, US3201328 A, US3186917 A, US2611490 A, JP7824568 A2, JP7626399 A2, JP60106504 A2, JP53024568 A2, JP51026399 A2, GB1447505 A, GB1177126 A, GB1079517 A, FR1585376 A, EP0332738 A1, EP0028769 A2,

Forward Citations: WO9933949, WO9851775, WO9851775, WO9618719, WO9611050, WO9322036, WO9308257, WO9008183, WO8901965, WO17073704, WO12084075, WO12080946, WO10098695, WO09108503, WO08006101, WO08006101, WO05121306, WO04096403, WO0043112, USRE36897, US9782726, US9688921, US9643127, US9630894, US9610550, US9321015, US9278316, US9277758, US9192185, US9149772, US9149769, US9029615, US8993014, US8900645, US8889201, US8858798, US8821730, US8668763, US8608966, US8603557, US8585904, US8496806, US8496731, US8440003, US8430949, US8425656, US8343583, US8318023, US8309173, US8293299, US8263814, US8211679, US8128826, US8017016, US8012876, US7971861, US7955506, US7833353, US7744727, US7608438, US7594981, US7556677, US7517455, US7497420, US7122709, US7105089, US7105089, US6928750, US6913776, US6842998, US6666906, US6623545, US6517607, US6506430, US6472009, US6464880, US6419829, US6344226, US6251463, US6242029, US6165253, US6162360, US6132788, US6126723, US6112908, US6096217, US6086769, US6033690, US5992221, US5954968, US5938928, US5897904, US5869114, US5824223, US5817359, US5728413, US5695795, US5639493, US5637224, US5552023, US5536512, US5522917, US5507949, US5466375, US5439699, US5395426, US5385647, US5382365, US5382364, US5336601, US5308631, US5304384, US5266337, US5155040, US5143526, US5114579, US5013436, US4990350, US4988525, US4978451, US4921612, US2015087877, US2015068611, US2015030648, US2014175007, US2013306483, US2012247327, US2012186791, US2011309016, US2011152584, US2011073546, US2011033564, US2010219128, US2010206789, US2010155333, US2010155331, US2010084288, US2010072133, US2010069686, US2010047422, US2010047386, US2010041118, US2009301970, US2009246848, US2009215139, US2009133632, US2009117631, US2008210540,

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Abstract:
Source: US4778688A Low-ethanol wines and other alcoholic beverages are produced by treating ordinary alcoholic beverages with novel membrane extraction methods. Semipermeable membranes and extraction **fluids** comprised either of a non-toxic, water-immiscible organic solvent or an aqueous solution of a low-molecular-weight but membrane-impermeable solute are used under mild conditions to selectively extract ethanol from alcoholic beverages, while leaving substantially intact the complement of other organic constituents that contribute to the color, aroma, and taste of the beverage. The methods disclosed may be adapted to continuous processing of alcohol-containing beverages, in which an ethanol-rich product is continuously recovered from the organic or aqueous extraction **fluid** and the latter is continuously regenerated and subsequently recycled to the membrane extraction unit.



83) Family number: 29371859 (US4893322A)

Title: Film changer

Priority: US19850798310 19851115 US19900461974 19900108 US19910739835 19910802 WO1986US02432 19861114 US19930017950 19930216

Family:

Publication number	Publication date	Application number	Application date
DE3688465 D1	19930624	DE19863688465	19861114
DE3688465 T2	19940113	DE19863688465T	19861114
EP0245476 A1	19871119	EP19860907161	19861114
EP0245476 A4	19880519	EP19860907161	19861114
EP0245476 B1	19930519	EP19860907161	19861114
US4893322 A	19900109	US19850798310	19851115
US5042056 A	19910820	US19900461974	19900108
US5317619 A	19940531	US19930017950	19930216
WO8703107 A1	19870521	WO1986US02432	19861114

Probable Assignee: MEDRAD INC

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

Assignee(s): MEDRAD INC A CORP OF PA ; MEDRAD INC PITTSBURGH PA US ; JOHANSSON LEIF A ; JOHANSSON LEIF A 6648 SMOKE TREE AGUORA CA 91301

Inventor(s):(std)**:** HELLMICK MARK ; JOHANSSON LEIF A ; WEBER OTTO

Inventor(s): WEBER OTTO CHATSWORTH CA 91311 US ; HELLMICK MARK CANOGA PARK CA 91304 US

Designated states: AT BE CH DE FR GB IT JP LU NL SE

International class (IPC 8-9): G03B42/02 G03B42/04 (Advanced/Invention)

International class (IPC 1-7): G03B42/02

CPC: G03B42/045

European class: G03B42/04L

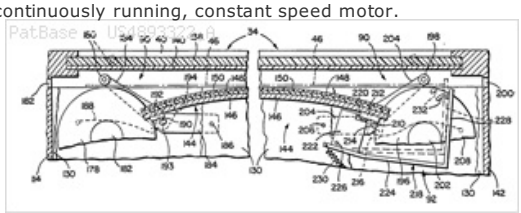
US class: 378/165 378/166 378/173 378/181 378/182

Classification Explorer

Cited documents: US4924486 A, US4893322 A, US4782504 A, US4712227 A, US4697902 A, US4597097 A, US4566785 A, US4521097 A, US4482232 A, US4447053 A, US4428658 A, US4418420 A, US4417356 A, US4355791 A, US4346297 A, US4342510 A, US4317999 A, US4300757 A, US4250389 A, US4234796 A, US4204668 A, US4199687 A, US4025187 A, US4017877 A, US4006985 A, US3998118 A, US3989950 A, US3967126 A, US3908984 A, US3891850 A, US3865482 A, US3862426 A, US3827070 A, US3807726 A, US3775613 A, US3735130 A, US3724352 A, US3710106 A, US3672279 A, US3636351 A, US3624724 A, US3567931 A, US3553453 A, US3511496 A, US3440422 A, US3306491 A, US2622206 A, JP61254430 A2, JP57067432 A2, GB190600300 A, GB1189914 A, GB1096802 A, DE714921 A, DE2745994 A1, DE2456448 A1, DE2356252 A1, DE1931645 A1,

Forward Citations: US9470801, US9370333, US9316743, US9275451, US9040016, US8996103, US8909325, US8894974, US8837793, US8748827, US8748826, US8676292, US8644910, US8620679, US8620046, US8615405, US8610075, US8606349, US8586932, US8571881, US8565860, US8527294, US8521253, US8492725, US8489176, US8481946, US8445851, US8428706, US8423125, US8207748, US7575373, US7195395, US6905244, US6804032, US6711948, US6554269, US5684853, US5317619, US5263077, US5145163, US5042056, US5018182, US2010021378, US2009304582, US2009295407, US2009201291, US2009168970, US2009112086, US2008230702, US2008131362, US2007194241, US2007108972, US2006193442, US2004096040, US2004054248, US2002131028, EP0396819, CN106249419, CN106226990, CN106226990, CN106199980,

Abstract:
Source: US4893322A Disclosed is a film feeding mechanism for use during **medical** x-ray techniques, particularly angiography. Sheets of film are fed sequentially at high speed into and out of a film exposure **device**, by a feed mechanism including continuously driven feed wheels and movable pinch rollers, in a manner so as to reduce damage to the films, including the build-up and discharge of static charge on the films. In the film exposure **device**, a free-floating lower clamping assembly, having a natural substantially flat configuration, clamps each film against an upper clamping assembly from the center of the film progressively outward towards its leading and trailing ends, to eliminate wrinkling of the film. A firing command is transmitted to an X-ray generator before each unexposed sheet of film reaches the exposure position and each cycle of operation is accomplished by energizing a single revolution clutch **connectable** to a continuously running, constant speed motor.



84) Family number: 2254149 (US4952210A)

Title: Parenteral **fluid** administration set

Priority: US19850809093 19851213 US19900474180 19900228

Family:

Publication number	Publication date	Application number	Application date
AU198662623 A1	19870618	AU19860062623	19860910
AU587280 B2	19890810	AU19860062623	19860910
BRPI8604234 A	19871117	BR1986PI04234	19860903
DE3682661 D1	19920109	DE19863682661	19860911
DK170246 B1	19950717	DK19860006009	19861212
DK600986 A	19870614	DK19860006009	19861212
DK600986 A0	19861212	DK19860006009	19861212
EP0226718 A2	19870701	EP19860112606	19860911
EP0226718 A3	19880608	EP19860112606	19860911
EP0226718 B1	19911127	EP19860112606	19860911
JP1795757 C3	19931028	JP19860241184	19861009
JP5003317 B4	19930114	JP19860241184	19861009
JP62139666 A2	19870623	JP19860241184	19861009
MX165924 B	19921210	MX19860003831	19860924
NZ217261 A	19890329	NZ19860217261	19860819
US4952210 A	19900828	US19850809093	19851213
US4998926 A	19910312	US19900474180	19900228
ZA8606709 A	19870527	ZA19860006709	19860904

Probable Assignee: BECTON DICKINSON CO

Assignee(s):(std)**:** BECTON DICKINSON CO

Assignee(s): BECTON DICKINSON AND CO ; BECTON DICKINSON AND CO FRANKLIN LAKES N J US ; BECTON DICKINSON AND COMPANY

Inventor(s):(std)**:** ALCHAS P G ; ALCHAS PAUL G ; PAUL G ALCHAS ; POORU JII ARUCHIYASU

Inventor(s): ALCHAS PAUL G MONTCLAIR NEW JERSEY US ; HOORU JII ARUCHASU

Agent(s): FB RICE; FB RICE PTY LTD

Designated states: BE CH DE FR GB IT LI NL SE

International class (IPC 8-9): A61J1/05 A61M5/14 A61M5/168 (Advanced/Invention);
A61J1/05 A61M5/168 (Advanced/Non-invention);
A61J1/05 A61M5/14 A61M5/168 (Core/Invention)

International class (IPC 1-7): A61J1/00 A61M5/00 A61M5/14 A61M5/16 A61M5/31 A61M5/68

CPC: A61M5/14

European class: A61M5/14

US class: 604/251 604/257 604/283 604/533

Classification Explorer

Cited documents: US4563173 A, US4432760 A, US4432756 A, US4256104 A, US4170994 A, US3402713 A, US3242920 A, US2999499 A, US2884924 A, US2668533 A, US2416391 A, JP58001462 A2, JP53003679 U1, JP53003679, JP50036876 U1, JP50036876, JP48040275 A2, GB1579065 A, EP0012445 A1, AU560242 B2, AU556380 B2,

Forward Citations: US9687599, US9511187, US9125983, US9089636, US9072828, US9055863, US9022628, US8870846, US8821443, US8523829, US8366658, US8361053, US8267912, US8251952, US8231584, US8152715, US8070726, US8033704, US7914499, US7753872, US7530968, US6482186, US6409708, US6106504, US6106502, US5848994, US5776109, US5735826, US5477638, US5335855, US5328463, US5156598, US5147324, US5057090, US4973318, US2011276031, US2011137287, US2009192459, US2009076328, US2009040783, US2009030396, US2008214896, US2008114207, US2008086094, US2006030838, US2005171491, US2005119618, US2004138641, US2003135237, JP5833638, JP4491822, JP2013525066, JP2007215836, EP0602564, CN102883764, AU2011248810, AU2006251143,

Abstract:
Source: US4952210A A parenteral **fluid** administration set includes a non-vented adapter having a frusto-conically shaped recess therein for removably engaging the tapered tip of a vented container. The adapter includes a bore therethrough communicating with the recess. A drip chamber having an upper portion with a conduit therethrough and a flexible transparent body portion extending downwardly from the upper portion and terminating in a lower end, is provided. The upper portion of the drip chamber is **connected** to the adapter so that the bore and the conduit are in **fluid** communication. A flexible tube includes a first end **connected** to the lower end of the body portion of the drip chamber and a second end. **Fluid** delivery means for facilitating the delivery of parenteral **fluid** from the tube to the patient is **connected** to the second end of the tube.

PatBase - US4952210_A

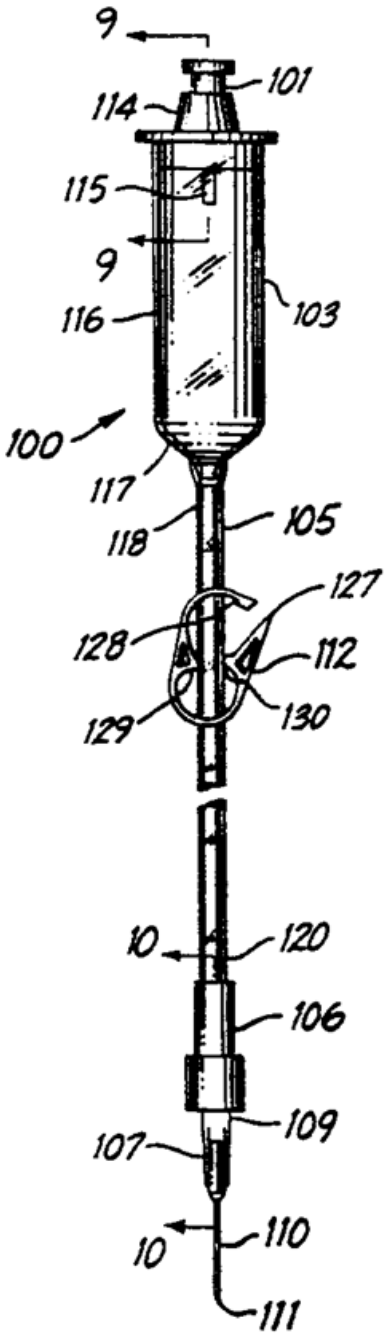


FIG. 8

85) Family number: 47907177 (US4925678A)

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Title: ENDOTHELIAL ENVELOPMENT DRUG CARRIERS

Priority:

CA19870526868	19870107	CA19880565119	19880426	EP19880903702	19880330
EP19860907195	19861118	US19850799757	19851118	US19860799757	19861118
US19890448121	19891208	US19900613465	19901107	US19870086692	19870807
US19890449964	19891103	US19870033432	19870401	US19920880660	19920508
US19910863595	19911209	US19910642033	19910116	WO1994US13740	19941129
WO1994US13741	19941129	WO1988US01096	19880330	WO1986US02479	19861118
US19950472634	19950607	US19940194784	19940210	US19930160085	19931129

Family:

Publication number	Publication date	Application number	Application date
AT204482 E	20010915	AT19940904770T	19941129
AT90554 E	19930715	AT19880903702T	19880330
AT90879 E	19930715	AT19860907195T	19861118
AU198666215 A1	19870602	AU19860066215	19861118
AU198816275 A1	19881102	AU19880016275	19880330
AU199512629 A1	19950613	AU19950012629	19941129
AU199513324 A1	19950613	AU19950013324	19941129
AU607494 B2	19910307	AU19880016275	19880330
AU688838 B2	19980319	AU19950013324	19941129
AU696166 B2	19980903	AU19950012629	19941129
CA1280364 A1	19910219	CA19870526868	19870107
CA1324080 A1	19931109	CA19880565119	19880426
CA2177468 AA	19960527	CA19942177468	19941129
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DE3881881 T3	19970605	DE19883881881T	19880330
DE69428052 D1	20010927	DE19946028052	19941129
EP0247156 A1	19871202	EP19860907195	19861118
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JP7110815 B4	19951129	JP19860506116	19861118
JP9509400 T2	19970922	JP19950515276T	19941129
JP9509650 T2	19970930	JP19950515277T	19941129
NZ277415 A	19970922	NZ19940277415	19941129
NZ277928 A	19980126	NZ19940277928	19941129
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US5155215 A	19921013	US19900613465	19901107
US5336762 A	19940809	US19910642033	19910116
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US5707604 A	19980113	US19950472634	19950607
WO8807365 A2	19881006	WO1988US01096	19880330
WO8807365 A3	19881117	WO1988US01096	19880330
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WO9514491 A3	19950706	WO1994US13741	19941129
WO9514492 A2	19950601	WO1994US13740	19941129
WO9514492 A3	19950622	WO1994US13740	19941129

Probable Assignee: ACCESS PHARMACEUTICALS INC

Assignee(s):(std)**:** RANNEY DAVID F ; ACCESS PHARMA INC ; UNIV TEXAS

Assignee(s): UNIVERSITY OF TEXAS SYSTEM BOARD OF REGENTS THE ; RANNEY DAVID F DALLAS TEX US ; ACCESS PHARMACEUTICALS INC ; ACCESS PHARMACEUTICALS INC DALLAS ; ACCESS PHARMACEUTICALS INC DALLAS TEX US ; AKUSESU PHARM INC ; DAVID F RANNEY ; BOARD OF REGENTS THE UNIVERSITY OF TEXAS SYSTEM ; OF TEXAS SYSTEM UNIV ; BOARD OF UNIV OF TEXAS SYSTEM ; BOARD OF REGENTS UNIV OF TEXAS SYSTEM ; OF TEXAS SYSTEM BOARD OF REGENTS UNIV ; YUNIBAASHITEI OBU TEKISASU SHISUTEMU ZA

Inventor(s):(std)**:** RANNEY DAVID F

Inventor(s): RANNEY F ; DAVID F RANNEY ; RANEE DEBITSUDO EFU ; RANII DEBITSUDO EFU

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; RICHES MCKENZIE AND HERBERT LLP; MARKS AND CLERK

Designated states: AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK ES FI FR GA GB GE GN GR HU IE IT JP KE KG KP KR KZ LI LK LT LU LV MC MD MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SI SK SN SU SZ TD TG TJ TT UA US UZ VN

International class (IPC 8-9): A61K31/70 A61K47/36 A61K47/40 A61K47/42 A61K47/48 A61K49/00 A61K49/08 A61K49/12 A61K49/18 A61K51/00 A61K51/06 A61K51/08 A61K51/12 A61K9/127 A61K9/16 A61K9/50 A61K9/51 C08B37/00 (Advanced/Invention);
A61K31/70 A61K47/36 A61K47/40 A61K47/42 A61K49/00 A61K51/00 A61K9/127 C08B37/00 (Advanced/Non-invention);

A61K31/70 A61K47/36 A61K47/40 A61K47/42 A61K47/48 A61K49/00 A61K49/06 A61K51/02 A61K51/12 A61K9/127 A61K9/16 A61K9/50 A61K9/51 C08B37/00 (Core/Invention)

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Abstract:
Source: US4925678A This application describes the preparation and in vivo testing of surface coatings and matrix materials, which when applied to or caused to comprise the carriers for drugs and diagnostic agents, and administered in a fashion that allows efficient vascular access, causes the carriers to recognize determinants present or normal or focally diseased endothelium, and induces the following in vivo effects: (1) rapid, partial or total endothelial envelopment of the drug (diagnostic) carrier; (2) sequestration of the carrier and protecting entrapped agent from blood vascular clearance at an early time (2 minutes) when the endothelial pocket which envelops the carrier still invaginates into the vascular compartment; (3) acceleration of the carrier's transport across or through the vascular endothelium and/or subendothelial structures into the tissue compartment (interstitium); and (4) improvement of the efficiency with which the drug (or diagnostic) carrier migrates across the endothelium, or epi-endothelial or subendothelial barriers, such that a lower total drug dose is required to obtain the desired effect relative to that required for standard agents.



86) Family number: 30134113 (US2001021811A)

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Title: METHOD AND **APPARATUS** FOR INTRAVASCULAR TWO-DIMENSIONAL ULTRASONOGRAPHY

Priority:

CA19870530748 19870227 EP19870301757 19870227 US19860834893 19860228
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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: BOSTON SCIENTIFIC SCIMED INC

Assignee(s):(std)**:** CARDIOVASCULAR IMAGING SYSTEMS ; CARDIOVASCULAR IMAGING SYSTEMS INC ; YOCK PAUL G ; CARDIOVASULAR IMAGING SYSTEMS ; SCIMED LIFE SYSTEMS INC ; CARDIOVASEULAR IMAGING SYSTEMS

Assignee(s): KAADEIOBASUKIYURAA IMEIJINGU SYST INC ; CARDIOVASCULAR IMAGING SYSTEMS INC SUNNYVALE CALIF US ; CARDIOVASCULAR IMAGING SYSTEMS INC 870 E EL CAMINO REAL # 32 MOUNTAIN VIEW CA A CORP OF ; CARDIOVASCULAR IMAGING SYSTEMS INC 870 E EL CAMINO REAL 32 MOUNTAIN VIEW CA A CORP OF ; CARDIOVASULAR IMAGING SYSTEMS INC ; KAADEIOBASUKYURAA IMEIJINGU SHISUTEMUZU INC ; KAADEIOBASUKIYURAA IMAGING SYST INC ; KAADEIOBASUKYURAA IMEEJINGU SHISUTEMUZU INC ; CARDIOVASEULAR IMAGING SYSTEMS INC ; CARDIOVASCULAR IMAGING SYSTEMS INC 870 E EL CAMINO ; BOSTON SCIENTIFIC LTD ; BOSTON SCIENTIFIC SCIMED INC ; BOSTON SCIENTIFIC TECHNOLOGY INC ; CARDIOVASCULAR IMAGING SYSTEM INC

Inventor(s):(std)**:** POORU JII YOTSUKU ; YOCK PAUL G

Inventor(s): HOORU JII YOTSUKU ; YOCK PAUL

Agent(s): SMART AND BIGGAR; ORRICK HERRINGTON AND SUTCLIFFE LLP, IP PROSECUTION DEPARTMENT; ORRICK HERRINGTON AND SUTCLIFFE LLP IP PROSECUTION DEPARTMENT; ORRICK HERRINGTON AND SUTCLIFFE LLP

Designated states: DE FR GB SE

International class (IPC 8-9): A61B17/22 A61B5/05 A61B6/00 A61B8/00 A61B8/12 A61B8/14 A61M25/00 (Advanced/Invention);
A61B19/00 (Advanced/Non-invention);
A61B17/22 A61B8/12 (Core/Invention);
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Classification Explorer

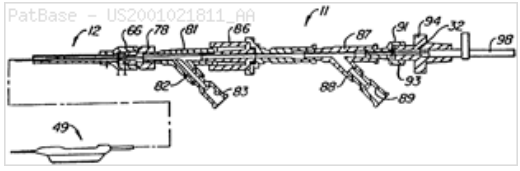
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Abstract:
Source: US2001021811A A catheter is provided for insertion in the he blood vessel of a patient for ultrasonically imaging the vessel wall. The catheter includes a tubular element and an internally housed drive cable for effective circumferential scan about the catheter of an ultrasonic generating means. Both the tubular element and the drive cable are of a size and flexibility sufficient to permit their introduction into the vessel and subsequent advancement through the vessel to the location of the vessel wall where imaging is desired.



87) Family number: 30110767 (US2001002384A)

© PatBase

Title: PROCESS FOR REDUCING THE PARTICLE SIZE OF POROUS ORGANIC POLYMERS AND PRODUCTS PRODUCED THEREFROM

Priority:

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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: BROADBAND STORAGE LLC

Assignee(s):(std)**:** CLOUGH THOMAS J ; EMSCI INC ; ENSAI INC ; ENSCI INC ; THOMAS J CLOUGH ; GROVESNOR VICTOR L ; PINSKY NAUM

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

International class (IPC 8-9): A61K6/033 B01D39/20 B01D71/02 B05D1/40 B05D5/12 B29B13/10 B32B17/04 B32B17/06 B32B18/00 B32B19/00 B32B5/14 B32B5/16 C03C17/23 C03C17/27 C03C25/12 C03C25/14 C03C25/42 C03C3/087 C04B41/45 C04B41/50 C08J9/36 C10M169/04 C10M171/00 C23C16/40 C23C30/00 D01F11/12 D04H1/58 D04H1/587 D04H1/64 G11B5/133 G11B5/84 G11B5/858 H01B1/08 H01F1/36 H01M10/06 H01M10/08 H01M10/18 H01M10/42 H01M2/16 H01M4/14 H01M4/60 H01M4/62 H01M4/64 H01M4/66 H01M4/68 H01M6/04 H05B3/34 H05F3/00 (Advanced/Invention);
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International class (IPC 1-7): B01D71/02 B01J37/00 B02C1/00 B02C19/12 B05D1/40 B05D3/02 B05D5/12 B05D7/00 B23P13/00 B32B15/08 B32B17/02 B32B17/04 B32B17/06 B32B18/00 B32B19/00 B32B5/14 B32B5/16 B32B7/00 B32B7/10 B32B9/00 C03C17/27 C03C25/02 C04B35/26 C04B41/85 C10M169/04 C10M171/00 C23C14/08 C23C16/40 C23C30/00 D02G3/00 D04H1/58 H01B1/06 H01M10/06 H01M10/08 H01M10/18 H01M10/20 H01M10/52 H01M2/16 H01M4/14 H01M4/20 H01M4/58 H01M4/60 H01M4/62 H01M4/64 H01M4/66 H01M4/68 H01M6/04 H01M6/48 H05B3/34 H05F3/00

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US class: 210/490 210/500.25 210/638 210/653 219/528 219/543 241/16 241/16S 241/21 252/572 252/73 252/74 252/75 29/2 361/212 427/124 427/126.1 427/126.2 427/126.3 427/126.5 427/126.6 427/212 427/213 427/215 427/216 427/217 427/255.2 427/255.24 427/255.35 427/258 427/376.2 427/377 428/116 428/188 428/224 428/263 428/268 428/283 428/288 428/289 428/307.3 428/307.7 428/323 428/325 428/327 428/328 428/329 428/331 428/332 428/336 428/337 428/350 428/357 428/370 428/375 428/378 428/379 428/388 428/389 428/396 428/402 428/403 428/404 428/406 428/408 428/413 428/414 428/425.9 428/432 428/480 428/483 428/516 428/520 428/522 428/523 428/524 428/688 428/694TS 428/701 428/813 428/902 429/142 429/142S 429/145 429/204 429/204S 429/209 429/210

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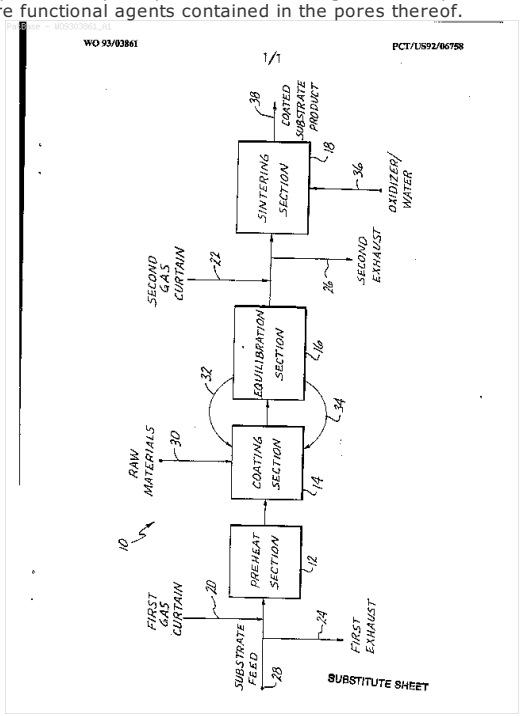
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Abstract:
Source: US2001002384A The present invention relates to a process for reducing the mean particle size of resilient porous organic polymer particles having open cell pores, which resist particle size reduction due to the compressibility and resiliency of the organic polymer. Further, the present invention relates to novel products produced by the process for reducing the mean particle size and to particles of reduced mean particle size which have one or more functional agents contained in the pores thereof.



88) Family number: 30156613 (US4708494A)

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Title: METHODS AND **DEVICES** FOR THE OPTICAL MEASUREMENT OF TEMPERATURE WITH LUMINESCENT MATERIALS

Priority:

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Inventor(s):(std)**:** KLEINERMAN MARCOS Y ; KLEINERMAN MARCOS

Designated states: BE CH DE DK FR GB IT LI LU NL SE

International class (IPC 8-9): F25B23/00 G01D5/353 G01J5/08 G01J5/52 G01K11/12 G01K11/32 G01L1/24 G06F3/033 G06F3/041 G06F3/042 (Advanced/Invention);
A61B17/00 (Advanced/Non-invention);
G01D5/26 G01J5/08 G01J5/52 G01K11/00 G01L1/24 G06F3/033 G06F3/041 (Core/Invention);
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Classification Explorer

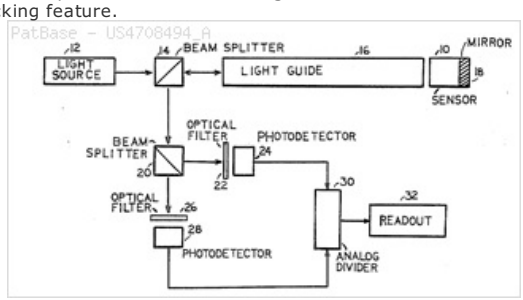
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Abstract:
Source: US4708494A The present invention provides new methods and their associated materials and **devices** for the remote optical measurements of temperatures with luminescent sensors. These methods allow the use of a single sensor to measure temperatures over a wide range from the cryogenic regions to well above ambient temperatures, up to about 800 K depending on the sensor. Using fiber optic links a single, inexpensive light source, for example a light emitting diode, and a single photodetector are used to obtain normalized measurements from a sensor, only minimally affected by fluctuations in the intensity of the excitation light source, fiber and/or connector losses or detector drift. One preferred embodiment of this invention can be used with most luminescent materials and does not require a temperature-dependent change in the luminescence properties of the sensor within the temperature range being measured. Another preferreed embodiment uses temperature-dependent luminescence decay times as temperature indicators, using a class of materials the luminescence quantum efficiency of which does not degrade within the temperature range being measured. The invention permits the use of a single sensor in two independent operative modes, thus providing redundancy and a self-checking feature.



89) Family number: 29685993 (US5206136A)

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Title: RAPID MEMBRANE AFFINITY CONCENTRATION ASSAYS

Priority:

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Family:

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PT86180 A	19871201	PT19870086180	19871119
PT86180 B	19901107	PT19870086180	19871119
US5206136 A	19930427	US19920925311	19920731
US5206178 A	19930427	US19910663193	19910228
US5849876 A	19981215	US19940179875	19940111
US6004761 A	19991221	US19950459025	19950602
ZA8708637 A	19880518	ZA19870008637	19871118
ZA8708639 A	19890628	ZA19870008639	19871118

Probable Assignee: BIO RAD LABORATORIES INC

Assignee(s):(std)**:** BIO RAD LAB INC N D GES D STAA ; BIO RAD LABORATORIES ; BRISTOL MYERS CO ; GENETIC SYSTEMS CORP ; BRISTOL MYERS SQUIBB CO ; SQUIBB BRISTOL MYERS CO ; ONCOGEN ; ONKOGEN A LTD PARTENERSHIP ; SANOFI SA ; SANOFI INC ; ONKOOGEN ; ONCOGEN LTD ; ONCOGEN A PARTNERSHIP LTD ; ONCOGEN PARTNERSHIP LTD

Assignee(s): ONCOGEN LTD PARTNERSHIP SEATTLE WASH ; ONCOGEN LTD PARTNERSHIP SEATTLE WASH US ; SANOFI ; COLE CAROL ANN ; MONJI NOBUO ; LINSLEY PETER S ; BROWN JOSEPH P ; HORN DIANE ; GENETIC SYSTEMS CORP SEATTLE WASH US ; GENETIC SYST CORP ; GENETICS SYSTEMS CORP ; BIO RAD LABORATORIES INC ; BIO RAD LABORATORIES INC N D GES D STAATES DELAWA ; BIO RAD LABORATORIES INC N D GES D STAATES DELAWARE

Inventor(s):(std)**:** LINSLEY PETER S ; NOBUO MONJI ; PIITAA ESU RINSUREI ; S LINSLEY PETER ; SLINSLEY PETER ; HORN DIANE ; BROWN JOSEPH P ; PETER S LINSLEY ; JOSEPH P BROWN ; COLE CAROL ANN ; CAROL

	ANN COLE ; DAIAN HOON ; DIANE HORN ; JIYOSEFU PII BURAUN ; KIYARORU AN KOORU ; MONJI NOBUO ; MONJI NABUO ; LINSEY PETER S ; COLE G A ; COLE C
Inventor(s):	COLE CAROL ANN SEATTLE WA 98112 US ; HORN DIANE SEATTLE WASHINGTON 98109 US ; KYARORU AN KOORU ; MONJI NOBUO SEATTLE WA 98115 US
Agent(s):	PHILLIPS ORMONDE FITZPATRICK; GRIFFITH HACK; FINLAYSON AND SINGLEHURST; CASSAN MACLEAN; REINHOLD COHN AND PARTNERS
Designated states:	AT BE CH DE ES FR GB GR IT LI LU NL SE
International class (IPC 8-9):	A61K38/00 A61K39/395 A61K47/48 A61K49/00 A61K51/10 C07K14/00 C07K14/005 C07K14/195 C07K14/705 C07K16/00 C07K16/30 C07K19/00 C12N15/00 C12N15/02 C12N5/00 C12N5/10 C12N5/18 C12P21/00 C12P21/08 G01N33/00 G01N33/53 G01N33/536 G01N33/537 G01N33/538 G01N33/543 G01N33/545 G01N33/548 G01N33/569 G01N33/574 G01N33/577 (Advanced/Invention); A61K38/00 A61K39/395 C07K14/00 C07K14/005 C12R1/91 G01N33/53 (Advanced/Non-invention); C07K16/18 G01N33/00 G01N33/53 G01N33/536 G01N33/543 G01N33/544 G01N33/569 (Core/Invention); A61K38/00 (Core/Non-invention); A61B A61K C08J C12N C12Q G01N (Subclass/Invention)
International class (IPC 1-7):	A61B A61K39/00 A61K39/395 A61K39/44 A61K47/48 A61K49/00 A61K51/10 C07K1/14 C07K1/36 C07K14/705 C07K15/00 C07K15/04 C07K15/12 C07K15/14 C07K16/00 C07K16/28 C07K16/30 C07K3/02 C07K3/28 C08J C12N15/00 C12N15/02 C12N15/12 C12N5/00 C12N5/12 C12N5/18 C12N5/20 C12N9/00 C12P21/00 C12P21/02 C12P21/08 C12Q1/00 C12R1/91 G01N33/00 G01N33/48 G01N33/53 G01N33/531 G01N33/532 G01N33/536 G01N33/537 G01N33/538 G01N33/543 G01N33/548 G01N33/569 G01N33/574 G01N33/577 G01N33/58 G01N33/68
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US class:	424/155.1 424/156.1 424/157.1 424/174.1 435/180 435/330 435/344 435/344.1 435/5 435/7.1 435/7.23 435/7.5 435/7.9 435/7.92 435/7.93 435/7.94 435/7.95 435/70.21 435/71 435/75 435/792 435/803 435/971 435/974 436/501 436/518 436/539 436/63 436/64 436/810 436/813 530/387.7 530/388.8 530/388.85 530/389.7 530/391.3 530/391.7
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Cited documents:	WO8805054 A1, WO8602735 A1, WO8600414 A1, WO8502411 A1, US4978614 A, US4960716 A, US4938948 A, US4935344 A, US4916213 A, US4863854 A, US4839288 A, US4818682 A, US4814275 A, US4803169 A, US4780409 A, US4767701 A, US4753894 A, US4752569 A, US4742011 A, US4737453 A, US4731238 A, US4727019 A, US4711840 A, US4707438 A, US4703017 A, US4683200 A, US4678747 A, US4666866 A, US4650756 A, US4649105 A, US4643971 A, US4632901 A, US4628032 A, US4624783 A, US4612282 A, US4609707 A, US4584268 A, US4551426 A, US4530900 A, US4522918 A, US4520113 A, US4511478 A, US4504585 A, US4486530 A, US4485093 A, US4455370 A, US4451568 A, US4434150 A, US4418152 A, US4407943 A, US4312944 A, JP61018863 A2, JP60253976 A2, JP60164251 A2, JP58209994 A2, JP56115727 A2, JP56071023 A2, JP55027033 A2, JP47031696 A2, GB2131830 A1, GB2028091 A1, FR2476125 A1, FR2422699 A1, EP0232179 A2, EP0220858 A2, EP0212403 A2, EP0211229 A2, EP0206302 A2, EP0200464 A2, EP0184370 A2, EP0184369 A2, EP0174534 A1, EP0161941 A2, EP0160446 A2, EP0142810 A2, EP0125118 A2, EP0118365 A2, EP0094777 A1, EP0040365 A1, EP0028132 A2, EP0011837 A1, DE2476125 A1, AU6828386 A1, AU6356986 A1,
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Abstract:
Source: US5206136A Rapid assays for analytes of interest in a **fluid** sample utilize a first conjugate of a labelled reactant that specifically binds to the analyte, and a second conjugate that binds to the analyte **coupled** to a polymer that has an affinity for a selected solid phase. The reaction components are incubated briefly, then contacted with the selected solid phase and the labelled components determined. Optional wash steps provide for enhanced sensitivity and specificity. When the analyte of interest is an antibody to HIV, the first reactant may be a synthetic, recombinant or native HIV antigen, and the second reactant may be protein A or an anti-immunoglobulin.

PatBase - US5206136_A

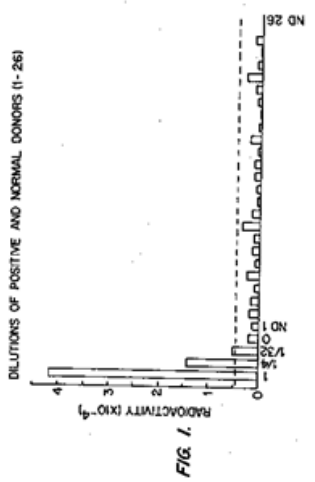


FIG. 1.

90) Family number: 29552805 (US5049129A)

© PatBase

Title: Adapter for passive drug delivery system

Priority:

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EP19910200323	19870528	IL19870082674	19870527	IL19910097847	19910415
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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: BAXTER INT

Assignee(s):(std)**:** BAXTER INT ; BAXTER TRAVENOL LAB ; ZDEB BRIAN D ; SLATER GLENN L

Assignee(s): BAXTER INTERNATL INC ; BAXTER TRAVENOL LABORATORIES INC ; BAXTER INT INCORP0RATED ; BAXTER INT INC N D GES D STAATES DELAWARE DEERFIELD ILL US ; BAXTER INT INC ; BAXTER INT INC A DELAWARE CORP ; BAXTER INT INC DEERFIELD ILL ; BAXTER INT INC DEERFIELD ILL US ; BAXTER INT INC N D GES D STAATES DELAWA

Inventor(s):(std)**:** BAXTER INT INC ; BAXTER INTERNATIONAL INC ; BRIAN D ZDEB ; BURAIAN DEII ZUDEBU ; GLENN L SLATER ; GUREN ERU SUREETAA ; SLATER GLEN L ; SLATER GLENN L ; SUREETAA GUREN ERU ; ZDEB BRIAN ; ZDEB BRIAN D ; ZUDEBU BURAIAN DEII ; ZDEB D ; SLATER L

Agent(s): PETER MAXWELL AND ASSOCIATES; SIM AND MCBURNEY; REINHOLD COHN AND PARTNERS

Designated states: AT AU BE CH DE FR GB IT JP LI LU NL NO SE

International class (IPC 8-9): A61J3/00 A61M39/00 A61M39/02 A61M5/14 A61M5/36 (Advanced/Invention);
A61J3/00 A61M39/00 A61M39/02 (Advanced/Non-invention);
A61M39/00 A61M5/14 (Core/Invention);
A61M (Subclass/Invention)

International class (IPC 1-7): A61J1/20 A61M37/00 A61M39/00 A61M39/02 A61M5/14 A61M5/36

CPC: A61M5/1409

European class: A61M5/14B2

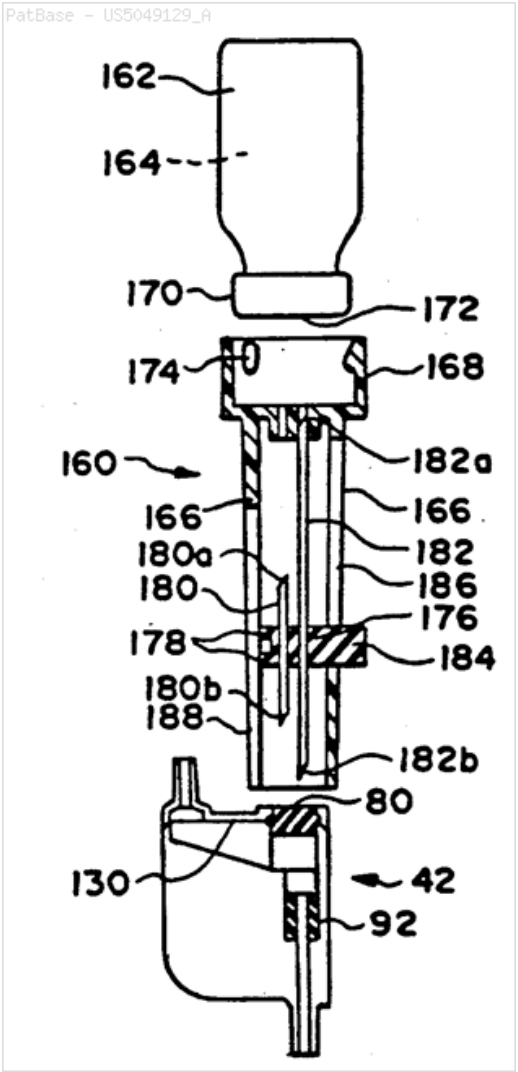
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Classification Explorer

Cited documents: WO8707159 A1, WO8603417 A1, WO8603147 A1, US4898209 A, US4832690 A, US4804366 A, US4787898 A, US4697622 A, US4684365 A, US4623334 A, US4581016 A, US4573967 A, US4534758 A, US4533348 A, US4521212 A, US4515585 A, US4465471 A, US4439183 A, US4410321 A, US4296786 A, US4087363 A, US3987791 A, US3941171 A, US3885607 A, US3208639 A, US2955595 A, JP54016887 A2, FR2340740 A1, FR1122616 A, EP0179745 A2, EP0162531 A1, EP0146310 A1, EP0109903 A1, EP0077604 A1,

Forward Citations: WO9728834, WO9505211, WO9505211, WO9501133, WO9411056, WO9320863, WO17132121, WO13079160, WO11141200, WO11054693, WO11054497, WO0057935, USD801522, USD794183, USD767124, USD765837, USD757933, USD737436, USD734868, USD720451, USD674088, USD669980, USD641080, USD630732, USD616984, US9901514, US9855191, US9839737, US9839580, US9833383, US9821152, US9801786, US9797528, US9795536, US9744296, US9694165, US9682190, US9637369, US9623175, US9522225, US9522098, US9482351, US9468588, US9463310, US9402967, US9376224, US9339438, US9311592, US9296983, US9283324, US9283145, US9279100, US9211487, US9205191, US9199030, US9150825, US9144646, US9138379, US9132063, US9132061, US9120663, US9120585, US9089641, US9028779, US9028457, US8998875, US8979792, US8919365, US8915264, US8905994, US8870832, US8864737, US8852145, US8770441, US8753325, US8752598, US8690120, US8684994, US8667996, US8647320, US8646342, US8613725, US8608723, US8597270, US8597243, US8579871, US8562584, US8562582, US8562572, US8549935, US8544497, US8539988, US8518272, US8517998, US8464906, US8444620, US8435210, US8434528, US8425487, US8382696, US8323250, US8317743, US8226627, US8211082, US8182769, US8177096, US8172929, US8162917, US8083716, US8070739, US8066688, US8025658, US8022375, US8021325, US8016809, US7963954, US7959715, US7927316, US7921740, US7879018, US7858037, US7766900, US7641851, US7632261, US7425209, US7425208, US7358505, US7326194, US7074216, US6890328, US6875203, US6852103, US6610040, US6589158, US6582415, US6558365, US6296621, US6245056, US6238374, US6159192, US6113583, US6090092, US6090091, US6071270, US6070761, US6063068, US6036680, US6022339, US6019750, US6013061, US5989237, US5941848, US5853406, US5814022, US5766147, US5578005, US5571261, US5558255, US5553741, US5466227, US5423753, US5398851, US5397303, US5385547, US5356380, US5316053, US5304130, US5226900, US5207667, US5205820, US5203385, US5074844, US4804366, US2015157836, US2014356193, US2014262201, US2012193373, US2011004184, US2010312220, US2010276034, US2010228220, US2010217226, US2010204679, US2010198148, US2009326506, US2009292271, US2009198215, US2009177177, US2009082750, US2008277414, US2008269682, US2008269681, US2008264261, US2008240990, US2008009789, US2007270778, US2007167904, US2007088313, US2002087144, TWI558425, JP5864428, JP4925136, JP2013544164, JP2013509924, JP2008185218, EP3081247, EP2599518, EP2386324, EP2319553, EP2288405, EP2288405, EP0713409, EP0636035, EP0372277, EP0340297, EA023698, DE102009051945, CN102711864, AU703507, AU684816, AU683831,

Abstract:
Source: US5049129A A **medical** **fluid** administration set is disclosed which may be used for the passive reconstitution and delivery of a drug or other beneficial agent with liquid flowing through the administration set. A receptacle mounted in the administration set is adapted for receiving a cartridge containing the beneficial agent. Also disclosed is an adapter for **connecting** the cartridge and the receptacle and an air flask within the administration set.



91) Family number: 29353666 (US4902276A)

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Title: **Apparatus** and method for removing obstructions in bodily organs or cavities

Priority:
CA19870539046 19870608 CA19890596208 19890410 US19860871775 19860609
US19950459532 19950602 US19920998551 19921230 US19920998424 19921230
US19900482194 19900220 US19880180099 19880411 WO1989US01447 19890407
WO1991US01037 19910215

Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: DEVELOPMENT COLLABORATIVE CORP

Assignee(s):(std)**:** DEV COLLABORATIVE CORP ; OF CALIFORNIA UNIV ; UNIV CALIFORNIA ; UNIV OF CALIFORNIA

Assignee(s): ZAKKO SALAM ; DEIBEROTSUPUMENTO KORABOREITEIBU CORP ; UNIV ; ZAKKO SALAM F ; THE UNIV OF CALIFORNIA OAKLAND CALIF US ; THE UNIV OF CALIFORNIA ; THE UNIV OF CALIFORNIA OAKLAN ; DEVELOPMENT COLLABORATIVE CORP ; OF CALIFORNIA THE UNIV

Inventor(s):(std)**:** SALAM F ZAKKO ; SALAM ZAKKO ; ZAKKO SALEM F ; ZAKKO SALAM F ; ZAKKO SALAM ; SARAMU ZATSUKOO

Inventor(s): ZATSUKO SARAMU EFU ; ZAKKO SALAM SAN DIEGO CALIFORNIA 92111 US

Agent(s): MADDERNS; PETER MAXWELL AND ASSOCIATES; SMART AND BIGGAR

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

International class (IPC 8-9): A61B17/00 A61B17/22 A61M1/00 A61M25/00 A61M31/00 A61M5/00 (Advanced/Invention);
A61B17/00 A61B17/22 A61M25/00 A61M31/00 (Advanced/Non-invention);
A61B17/22 A61M1/00 A61M25/00 A61M31/00 (Core/Invention);
A61B17/00 A61B17/22 (Core/Non-invention)

International class (IPC 1-7): A61B17/00 A61B17/22 A61M1/00 A61M25/00 A61M31/00 A61M5/00 A61M5/142 A61M7/00

CPC: A61B17/22 A61B2017/00119 A61B2017/00123 A61B2017/22084 A61M1/0058 A61M1/0062 A61M1/0084 A61M2205/3344 A61M2205/3351 A61M2205/3355 A61M2025/0003

European class: A61B17/22 A61M1/00K A61M1/00T2 K61B17/00C2A K61B17/00C2A2 K61B17/22S2 K61M1/00K2 K61M205/33P10 K61M205/33P11 K61M205/33P5 K61M25/00A2

US class: 128/898 604/151 604/28 604/31 604/317 604/35 604/43 604/540 604/66 604/67

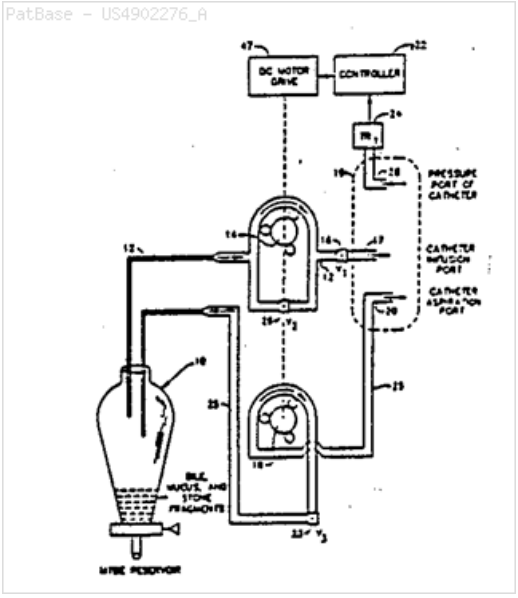
Classification Explorer

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Forward Citations: WO9959666, WO9112830, WO9105575, WO15157330, WO14164068, WO14023552, WO14023551, WO09073521, WO08042347, WO08042347, WO07026182, WO06131609, WO0015277, US9901347, US9895518, US9895483, US9895473, US9883877, US9833257, US9730775, US9730774, US9730773, US9656043, US9623177, US9586023, US9486219, US9474842, US9433427, US9282968, US9248221, US9211507, US9149601, US9107986, US9084850, US8998843, US8974418, US8961461, US8775196, US8647294, US8597238, US8591450, US8562555, US8500674, US8439878, US8435225, US8435204, US8409166, US8398581, US8388691, US8328776, US8323231, US8303538, US8291933, US8252065, US8234128, US8162878, US8162877, US8066681, US8012117, US7996974, US7927313, US7883489,

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Abstract:
Source: US4902276A A fully automatic organ pressure sensitive **apparatus** for dislodging and removing obstructions in bodily cavities or organs by both delivering and removing **fluid** thereto, operable by high rate continuous or intermittent infusion of **fluid** solvent over a set pressure range to effect rapid dissolution and removal of the obstruction without complications to the patient. By continuous feedback monitoring of **fluid** pressure in the bodily organ or cavity of interest, the **apparatus** can constantly vary infusion and aspiration rates to maintain the set passages range. If the pressure persists above or below the set range, the **apparatus** activates a safety feature leading to a period of maximal aspiration and cessation of infusion, followed by cessation of solvent transfer and triggering of an alarm to alert the operator.



92) Family number: 10915443 (US4770183A)

© PatBase

Title: Biologically degradable superparamagnetic particles for use as nuclear magnetic resonance imaging agents

Priority:

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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: AMAG PHARMACEUTICALS INC

Assignee(s):(std)**:** GROMAN ERNEST V ; ADVANCES MAGNETICS INC ; ADVANCED MAGNETICS INC

Assignee(s): ADVANCED MAGNETICS INC 61 MOONEY STREET CAMBRIDGE ; ADVANCED MAGNETIC INC ; AMAG PHARMACEUTICALS INC ; ADVANCED MAGNETICS INC A CORP OF DE ; ADVANCED MAGNETICS INC CAMBRIDGE MASS US ; ADVANCED MAGNETICS INC CAMBRIDGE MASS ; ADVANCED MAGNETICS INC 61 MOONEY STREET CAMBRIDGE MA 02138 1038 ; AVANCED MAGNETICS INC ; LEWIS JEROME M ; JOSEPHSON LEE ; JUNG CHU ; PALMACCI STEPHEN ; JEFFERIES FINANCE LLC

Inventor(s):(std)**:** GROMAN ERNEST ; KENNY FRANCIS ; MENZ EDWARD ; ROTHENBERG JEFFREY ; ROTHENBERG JEFFREY M ; MENZ EDWARD T ; LEWIS JEROME M ; LEWIS JEROME ; KENNY FRANCIS E ; JUNG CHU ; JUNG CHU W ; ENRIQUEZ PHILIP M ; ENRIQUEZ PHILIP ; PALMACCI STEPHEN ; JOSEPHSON LEE ; GROMAN ERNEST V

Inventor(s): JUNG CHU ARLINGTON MA 02174 US ; JOSEPHSON LEE ARLINGTON MA 02174 US ; GROMAN ERNEST V BROOKLINE MA 02135 US ; CHU JUNG ; JEROME M LEWIS ; PALMACCI STEPHEN WALPOLE MA 02081 ; JUNG CHU ARLINGTON MA 02174 ; JOSEPHSON LEE ARLINGTON MA 02174 ; LEE JOSEPHSON ; EDWARD T MENZ ; ERNEST V GROMAN ; PALMACCI STEPHEN WALPOLE MA 02081 US ; PHILIP M ENRIQUEZ

Agent(s): OSLER HOSKIN AND HARCOURT LLP; SWABEY OGILVY RENAULT; GOWLING LAFLEUR HENDERSON LLP

Designated states: AT AU BE BR BY CA CH CN DE DK ES FR GB GR IE IT JP KR KZ LI LK LU MC MX NL NO NZ PT RU SE UA UZ VN

International class (IPC 8-9): A61B5/055 A61K31/695 A61K31/70 A61K31/715 A61K33/00 A61K33/24 A61K33/26 A61K38/00 A61K39/00 A61K39/395 A61K45/00 A61K47/26 A61K47/36 A61K47/48 A61K49/00 A61K49/04 A61K49/12 A61K49/18 A61K51/00 A61K51/06 A61K9/00 A61L2/00 A61L2/02 A61L2/025 A61P15/00 A61P31/12 A61P43/00 A61P7/06 B01J13/00 C01G49/00 C08G18/16 C08G18/18 C08G18/20 C08G18/24 C08G18/26 C08G18/48 C08G18/50 C08J9/14 C10M173/02 G01N24/00 G01N24/08 G01R33/28 G11B5/708 (Advanced/Invention);
A61K47/48 (Advanced/Non-invention);
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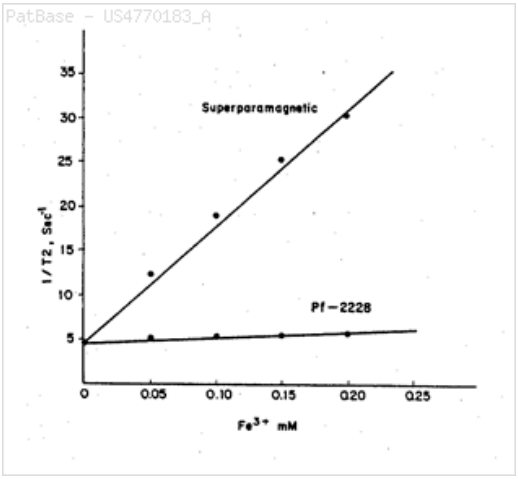
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Abstract:
Source: US4770183A This invention relates to an improved method for obtaining the in vivo MNR image of an organ or tissue of an animal or human subject. More specifically, this invention relates to the use of small (about 10 to about 5,000 angstroms in diameter) biodegradable superparamagnetic metal oxide particles for use as imaging agents. The particles, which may be uncoated or surrounded by a stable polymeric coating, can be mixed with a physiologically acceptable medium to form a uniform dispersoid which can be administered to the subject by a variety of routes. Once administered, the particles collect in the target organ or tissue where they will remain for a time sufficiently long for an image to be obtained, but are ultimately metabolized or cleared within about 7 days.

FDA Data:

Application number	Active ingredient	Proprietary name	Applicant	Date of approval
020416	FERUMOXIDES □□	FERIDEX I.V. □□	AMAG PHARMS INC	Aug 30, 1996



93) Family number: 49834995 (US2002151924A)

Title: CLOVER LEAF SHAPED TUBULAR **MEDICAL DEVICE**

Priority:

CA19870539735 19870616	CA19880577462 19880915	CA19890606478 19890724
CA19890602612 19890613	CA19892005817 19891218	CA19892005818 19891218
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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: SURGICAL SYSTEMS AND INSTRUMENTS INC

Assignee(s):(std)**:** HUSTED ROYCE HILL ; NEUROMEDICAL SYSTEMS INC ; SHIBER SAMUEL ; SAAJIKARU SYST AND INSUTOURUMENT ; BARD INC C R ; SURGICAL SYSTEMS AND INSTR INC ; SURGICAL SYSTEMS AND INSTR ; SURGICAL SYSTEM AND INSTR INC

Assignee(s): SURGICAL SYSTEMS AND INSTRUMENTS INC MUNDELEIN IL ; SURGICAL SYSTEMS AND INSTRUMENTS INC AN ILLINOIS C ; SURGICAL SYSTEMS AND INSTRUMENTS INC A CORP OF IL ; SURGICAL SYSTEMS AND INSTRUMENTS ; SURGICAL SYSTEMS AND INSTRUMENTS INC 529 KILLARNEY ; SHIBER SAMUEL MUNDELEIN ILL ; SHIBER SAMUEL WOBURN MASS ; SHIBER SAMUEL MUNDELEIN ILL US ; SHIBER SAMUEL BILLERICA MASS US ; SHIBER SAMUEL WOBURN MASS US ; SURGICAL SYSTEMS AND INSTRUMENTS INC AN ILLINOIS CORP ; SURGICAL SYSTEMS AND INSTRUMENTS INC 529 KILLARNEY MUNDELEIN IL 60060 AN ILLINOIS CORP ; SURGICAL SYSTEMS AND INSTRUMENTS INC 529 KILLARNEY MUNDELEIN IL 60060 A CORP OF IL ; SURGICAL SYSTEMS AND INSTRUMENTS INC MUNDELEIN IL A CORP OF IL ; SURGICAL SYSTEM AND INSTRUMENTS INC ; C R BARD INC ; HUSTED ROYCE H ; SHIBER SAMUEL ATKINSON N H US ; SHIBER SAMUEL ATKINSON NH ; SURGICAL SYSTEMS AND INSTRUMENTS INC ; SAMIYUERU SHIBAA ; SHIBER SAMUEL ATKINSON N H ; SAMYUERU SHIBAA ; SHIBER SAMUEL BILLERICA MASS ; SAAJIKARU SYST AND INSUTOURUMENTSU INC

Inventor(s):(std)**:** SHIBER SAMUEL ; HUSTED ROYCE H ; RUTENBERG MARK E ; SAMIYUERU SHIBAA

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Agent(s): OGILVY RENAULT LLP SENCRL SRL; SWABEY OGILVY RENAULT; SAMUEL SHIBER; SAMUEL

Designated states: AT BE CH DE FR GB IT JP LU NL SE

International class (IPC 8-9): A61B17/00 A61B17/22 A61B17/32 A61B17/3207 A61B17/3211 A61B18/08 A61B18/24 A61B5/00 A61B8/12 A61D1/02 A61M1/00 A61M23/00 A61M25/00 A61M25/01 A61M25/09 F16C1/02 F16D7/02 G06F15/18 G06K9/62 (Advanced/Invention);
A61B17/00 A61B17/32 A61B19/00 A61M1/00 (Advanced/Non-invention);
A61B17/00 A61B17/22 A61B17/32 A61B18/04 A61B18/20 A61B5/00 A61B8/12 A61D1/00 A61M1/00 A61M25/00 A61M25/01 A61M25/09 F16C1/00 F16D7/00 G06F15/18 G06K9/62 (Core/Invention);
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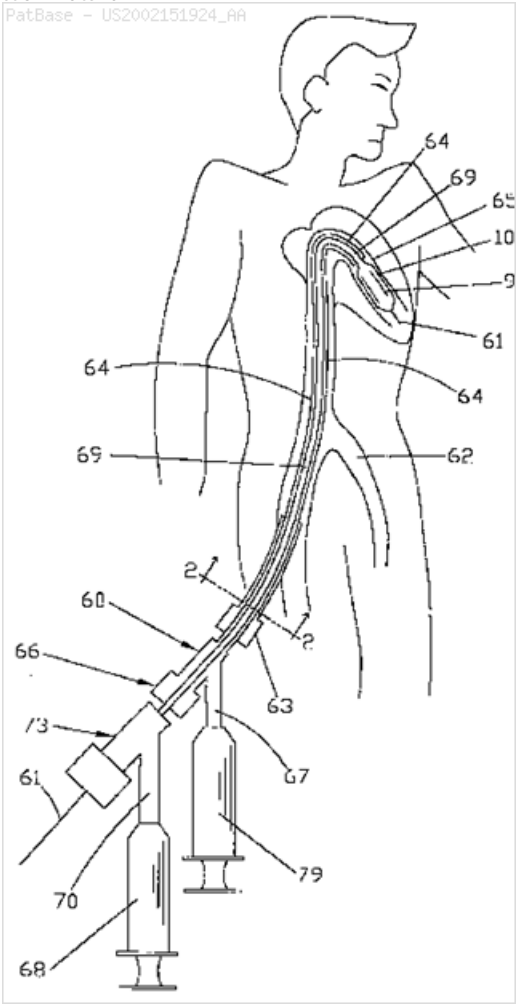
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Abstract:
Source: US2002151924A A hydraulically expandable **medical device** for insertion into an obstruction in a blood vessel, comprising a hydraulically expandable tube having a clover leaf shape in its relaxed, deflated, position; and longitudinal ridges attached to the expandable tube and harbored in the clover leaf shape, the expandable tube adapted to be inflated and expanded with **fluid**, thereby pushing the elongated ridges outwardly into the obstruction material.



94) Family number: 4396931 (US4763648A)

Title: METHOD AND **APPARATUS** FOR ARTERIAL AND VENOUS BLOOD SAMPLING

Priority: US19860907118 19860912 US19880208388 19880617 WO1987US02313 19870911

Family:

Publication number	Publication date	Application number	Application date
AU198779675 A1	19880407	AU19870079675	19870911
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Probable Assignee: MIGADA INC

Assignee(s):(std)**:** WYATT P ; WYATT PHILIP ; MIGADA INC

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Inventor(s):(std)**:** WYATT PHILIP

Inventor(s): WYATT PHILIP LA CANADA CALIF ; PHILIP WYATT

Agent(s): PIZZEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD

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

International class (IPC 8-9): A61B5/0215 A61B5/15 (Advanced/Invention);
A61B5/0215 (Advanced/Non-invention);
A61B5/0215 A61B5/15 (Core/Invention)

International class (IPC 1-7): A61B5/02 A61B5/14

CPC: A61B5/15003 A61B5/150259 A61B5/150992 A61B5/155 A61B5/150221 A61B5/411 A61M39/04 A61M2206/11 A61M2206/20

European class: A61B5/14B A61B5/41B A61M39/04 K61M206/11 K61M206/20

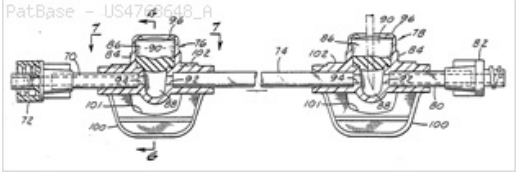
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Classification Explorer

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Forward Citations: WO9422524, WO9422524, WO9412093, WO9321821, WO9012606, WO9012606, WO17076845, WO13063529, WO12146735, WO11055029, WO06041817, USRE39334, USRE38145, USRE37357, US9782576, US9775981, US9743877, US9741139, US9451908, US9414782, US9414777, US9375561, US9302045, US9289169, US9192746, US8911367, US8886273, US8812072, US8808254, US8792953, US8774886, US8750955, US8715222, US8626257, US8562558, US8562528, US8532730, US8478377, US8475416, US8449524, US8449464, US8447376, US8425417, US8425416, US8417311, US8403894, US8396528, US8364231, US8364230, US8298142, US8287453, US8275438, US8251907, US8079997, US7998122, US7972296, US7963950, US7947032, US7885697, US7857760, US7824343, US7785258, US7783333, US7775975, US7771383, US7744573, US7699828, US7662110, US7640048, US7615007, US7470261, US7445604, US7314452, US7303542, US7044941, US7033339, US6981969, US6908459, US6827709, US6699225, US6699215, US6692479, US6648835, US6610045, US6605076, US6569125, US6544232, US6447498, US6387086, US6287265, US6261266, US6228065, US6217568, US6213996, US6193697, US6193675, US6171287, US6159164, US6156019, US6126618, US6068011, US5928166, US5871500, US5797897, US5776125, US5769825, US5759160, US5743886, US5697915, US5658260, US5643218, US5620008, US5562639, US5549651, US5549569, US5531672, US5522804, US5474546, US5474544, US5466219, US5447495, US5423775, US5374401, US5372143, US5324256, US5301686, US5218965, US5178607, US5167238, US5148811, US5135489, US5135026, US5114400, US5048537, US5046509, US5002066, US4838855, US2014058359, US2013060205, US2011301571, US2011257606, US2010240964, US2010121170, US2008108956, US2008064985, US2008051733, US2008048144, US2007179407, US2007106955, US2007083090, US2006155213, US2006129112, US2006089603, US2006074350, US2005027233, US2004158201, US2003199850, US2003109853, FR2951927, EP1319367, EP1234596, EP1234596, EP0783899, EP0645980, EP0627893, EP0376168, EP0376168, EP0301913, EP0301913, DE4220309, DE4220301, DE19801276, DE102011075029, DE102011075028, DE102011075026, DE102005003516, DE102004036914, DE10160703, CN103519830, CN102946805, CN102946805, AU678071, AU677584,

Abstract:
Source: US4763648A A method and **apparatus** for arterial and venous blood sampling is described. The **apparatus** includes efficient structure for purging the **fluid** **line** and a **fluid** sampling **device** chamber of residue heparinized IV solution to obtain a sufficiently undiluted blood sample without excessive blood waste and risk of entry of air, **line** contamination/nosocomial infection or misdiagnosis. The **apparatus** is also specially designed to protect the clinician from either self-contamination from patient **fluids** or accidental injury from needle puncture.



95) Family number: 46990499 (EP0263664A2)

Title: DRAINAGE **DEVICE**.

Priority: AU19870079396 19871006 AU19890046033 19891207 US19860916342 19861007 US19860916343 19861007 AU19930032844 19930204

Family:

Publication number	Publication date	Application number	Application date
AT142512 E	19960915	AT19870117340T	19871005
AT142513 E	19960915	AT19870117336T	19871005
AU198779396 A1	19880421	AU19870079396	19871006
AU198946033 A1	19900329	AU19890046033	19891207
AU199332844 A1	19930401	AU19930032844	19930204
AU199516528 A1	19950810	AU19950016528	19950419
AU588135 B2	19890907	AU19870079396	19871006
AU630642 B2	19921105	AU19890046033	19891207
AU656054 B2	19950119	AU19930032844	19930204
AU683350 B2	19971106	AU19950016528	19950419
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DE3751905 T2	19970227	DE19873751905T	19871005
DE3751906 D1	19961017	DE19873751906	19871005
DE3751906 T2	19970227	DE19873751906T	19871005
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DE3788265 T2	19940317	DE19873788265T	19871005
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DE8717234 U1	19880609	DE19870017234U	19871006
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DK173329 B1	20000724	DK19940000544	19940511
DK522687 A	19880504	DK19870005226	19871006
DK522687 A0	19871006	DK19870005226	19871006
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DK54494 A	19940511	DK19940000544	19940511
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EP0263664 A3	19890524	EP19870308807	19871005
EP0263664 B1	19931124	EP19870308807	19871005
EP0468544 A2	19920129	EP19910117341	19871005
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ES2048738 T3	19940401	ES19870308807T	19871005
ES2091270 T3	19961101	ES19910117340T	19871005
ES2091844 T3	19961116	ES19910117336T	19871005
FI874379 A	19880408	FI19870004379	19871006
FI874379 A0	19871006	FI19870004379	19871006
FI96920 B	19960614	FI19870004379	19871006
FI96920 C	19960925	FI19870004379	19871006
IE65088 B	19951004	IE19870002666	19871006
IE872666 L	19880407	IE19870002666	19871006
IL84052 A1	19950526	IL19870084052	19871001
IN169588 A	19911116	IN1987DE00833	19870922
JP1935579 C3	19950526	JP19910233429	19910912
JP2551704 B2	19961106	JP19910233430	19910912
JP4357958 A2	19921210	JP19910233429	19910912
JP4357959 A2	19921210	JP19910233430	19910912
JP6071477 B4	19940914	JP19910233429	19910912
KR19880004792 A	19880627	KR19870011128	19871006
KR910000760 B1	19910206	KR19870011128	19871006
MX164990 B	19921013	MX19870008721	19871006
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NO874190 A0	19871006	NO19870004190	19871006
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PT101343 B	19991130	PT19930101343	19930820
PT101344 A	19940729	PT19930101344	19930820
PT101344 B	19991130	PT19930101344	19930820
PT85870 A	19881130	PT19870085870	19871006
PT85870 B	19940331	PT19870085870	19871006

Probable Assignee: DEKNATEL TECHNOLOGY CORP

Assignee(s):(std)**:** DEKNATEL TECH CORP ; PFIZER HOSPITAL PROD

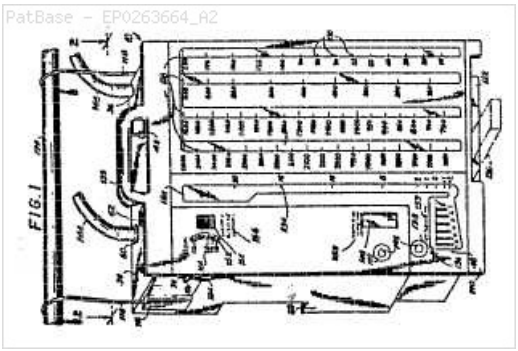
Assignee(s): PFIZER HOSPITAL PRODUCTS GROUP ; GENZYME CORP ; PFIZER HOSPITAL PROD GROUP INC ; TELEFLEX CT DEVICES INC ; PFIZER HOSPITAL PRODUCTS GROUP INC NEW YORK N Y US ; DEKNATEL TECHNOLOGY CORP ; DEKNATEL TECHNOLOGY CORP was PFIZER HOSPITAL PRODUCTS GROUP INC UNDER S24.. ; DEKNATEL TECHNOLOGY CORP WILMINGTON DEL US ; DEKUNATERU TEKUNOROJII CORP ; PFIZER HOSPITAL PRODUCTS GROUP INC

Inventor(s):(std)**:** EVERETT FREDERICK A JR ; EVERETT FREDERICK ALAN ; EVERETT FREDERICK ALAN JR ; FREDERICK ALAN EVERETT JR ; FARRAR QUINTON J ; FARRAR QUINTON JAMES ; QUERCIA RICCARDO

Inventor(s): QUERCIA RICCARDO BAYSIDE NEW YORK US ; QUINTON J FARR ; QUINTON JAMES FARRAR ; RICCARDO QUERCIA ; RIKARUDO KUERUSHIA ; FARRAR QUINTON JAMES WYCKOFF NEW JERSEY US ; FREDERICK A EVEREST JR ; FREDERIK ALAN EVERETT JR ; FUREDERITSUKU ARAN EBERETSUTO

	JIYUNIA ; FUREDERITSUKU ARAN EBERETSUTO JUNIA ; KUINTON JEEMUSU FUAARAA ; KUINTON JIEEMUSU FUAARAA ; NAME NOT GIVEN ; QOUERCIA RICCARDO ; EVERETT FREDERICK ALAN JR BLOOMFIELD NEW JERSEY US ; EVERETT FREDERIK A JR ; EVERETT FREDERIK AJR ; EVERETT FREDRICK ALAN ; EVERETT JR ; EVERETT JR FREDERICK ALAN
Agent(s):	SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; SANFORD TCOLB AND CO; LUZZATTO AND LUZZATTO
Designated states:	AT BE CH DE ES FR GB GR IT LI LU NL SE
International class (IPC 8-9):	A61J1/16 A61M1/00 A61M27/00 A61M39/00 (Advanced/Invention); A61M27/00 A61M39/00 (Advanced/Non-invention)
International class (IPC 1-7):	A61B10/00 A61B17/00 A61B5/14 A61F5/44 A61J1/16 A61M1/00 A61M27/00 A61M39/00 A61M39/04 C02F1/00 F16B45/00 F16M13/00 G12B9/08
CPC:	A61M1/0033 A61M1/0031 A61M1/0013 A61M2209/082
European class:	A61M1/00A6 A61M1/00H2 K61M1/00H2A K61M209/08A
Classification Explorer	
Cited documents:	WO8601091 A1, WO8403838 A1, WO8204397 A1, US4533353 A, US4469484 A, US4439190 A, US4076023 A, US4043333 A, US3850202 A, US3683913 A, US3559647 A, US3363627 A, JP59193436 U1, JP59193436 U, JP59130591 U1, JP59130591 U, JP59105138 U1, JP59105138 U, JP58105998 A2, JP57138557 A2, JP57061772 A2, JP49108465 A2, JP49021345 U, GB2068736 A1, FR2105742 A5, EP0096579 A2, AU572628 B2,
Forward Citations:	WO16041458, WO11118966, WO11118966, US8945073, US6082737, KR101159294, KR100978599, JP2005534668, ES2064279, DE102011011831,

Abstract:
Source: EP0263664A2 An **apparatus** (10) for draining **fluids**, for example, from a chest or pleural cavity, includes a collection chamber (12) for collecting **fluids** through an inlet port (36) for entry of the **fluids**. Also included is a dry or waterless suction control chamber (16) in **fluid** communication with the collection chamber (12) for regulating the degree of vacuum imposed in the collection chamber. If desired, a seal chamber (14) can also be provided between the dry suction control chamber (16) and the collection chamber (12) so as to prevent any ambient or atmospheric air from passing into the collection chamber. The suction control chamber (16) has a first inlet (60) which is **coupled** to a suction source and second inlet (74) communicates with the ambient. A waterless regulator (72) is provided for regulating the degree of suction imposed in the collection chamber (12) at a plurality of predetermined present levels of suction. This regulator is positioned between the suction inlet (6) and the ambient inlet (74). The suction control chamber (16) also has at least a visual indicator (152) disposed between the regulator (72) and the suction inlet (60) for providing immediate confirmation of proper operation of suction in the collection chamber. The present invention also includes an **apparatus** (118) for supporting a housing from a support (120) including a bracket member (116) formed of opposed walls (272, 274) and having a post member (276) extending between the walls, one of the walls (272) capable of being positioned on the housing; and a hook member (278) having one rotatably secured about the post member (276) for selective rotational movement from a first storage position to a second hanging position, the other end of the hook member (278) being configured for engagement with the support (120), the one end of the hook member (278) and the bracket (116) being configured and dimensioned so that the hook member (278) remains locked in the hanging position. Also contemplated within the present invention is a **device** (159) for retaining tubing (146) under compression so as to provide self-sealing capability of the tubing during sampling or **injection** procedures.



96) Family number: 3405300 (US5055188A)

Title: MAGNETIC **APPARATUS** FOR CONTROLLING PROTISTA IN DISTILLATES

Priority:
AU19870081408 19871119 AU19900050736 19900305 EP19870310194 19871119
NZ19860218331 19861119 CA19902032574 19901218 NZ19890231876 19891219
US19890430960 19891119 US19870122873 19871119 US19900630060 19901219

Family:

Publication number	Publication date	Application number	Application date
AR244554 A1	19931130	AR19900318676	19901219
AT82586 E	19921215	AT19870310194T	19871119
AU198781408 A1	19880526	AU19870081408	19871119
AU199050736 A1	19900809	AU19900050736	19900305
AU199068279 A1	19910627	AU19900068279	19901219
AU590490 B1	19891102	AU19880013855	19880329
AU590490 B3	19891016	AU19880013855	19880329
AU621719 B2	19920319	AU19900050736	19900305
AU677567 B2	19970501	AU19900068279	19901219
BRPI9006481 A	19911001	BR1990PI06481	19901219
CA2032574 AA	19910620	CA19902032574	19901218
CN1052611 A	19910703	CN19901010068	19901219
DE3782723 D1	19921224	DE19873782723	19871119
DE3782723 T2	19930401	DE19873782723T	19871119
EP0268475 A1	19880525	EP19870310194	19871119
EP0268475 B1	19921119	EP19870310194	19871119
EP0434558 A2	19910626	EP19900403682	19901219
EP0434558 A3	19930217	EP19900403682	19901219
ES2035084 T3	19930416	ES19870310194T	19871119
GR3006301 T3	19930621	GR199204016401640T	19921120
IL96733 A0	19910916	IL19900096733	19901219
IN180356 A	19980124	IN1990DE01298	19901219
JP4148682 A2	19920521	JP19900403799	19901219
KR19910011283 A	19910807	KR19900021253	19901219
MX173071 B	19940131	MX19900023811	19901219
NO905474 A	19910620	NO19900005474	19901219
NO905474 A0	19901219	NO19900005474	19901219
NZ218331 A	19901026	NZ19860218331	19861119
NZ231876 A	19930225	NZ19890231876	19891219
PT96216 A	19921231	PT19900096216	19901217
US5055188 A	19911008	US19890430960	19891101
US5248437 A	19930928	US19900630060	19901219
ZA9010239 A	19911030	ZA19900010239	19901219

Probable Assignee: FORREST SCIENT RES

Assignee(s):(std)**:** DEBUG FILTERS LTD ; FOREST SCIENT RES LTD ; FORREST SCIENT RESEARCH LIMITE ; FORREST SCIENT RES ; FORREST SCIENT RESEARCH LTD ; FORREST SCIENT RESEARCH LTD FO ; FORREST SCIENT RES LTD ; FUORESUTO SAIENTEIFUITSUKU RIS

Assignee(s): FORREST SCIENTIFIC RESEARCH LTD ; FORREST SCIENTIFIC RESEARCH LIMITED ; FUORESUTO SAIENTEIFUITSUKU RISAACHI LTD ; FORREST SCIENTIFIC RESEARCH LTD PETONE NEUSEELAND ; FORREST SCIENTIFIC RESEARCH LTD WAS DE BUG S ; IMANAGE SERVICES LTD ; FORREST SCIENTIFIC RESEARCH LTD PETONE NEUSEELAND NZ ; FORREST SCIENTIFIC RESEARCH LTD FORMERLY DE BUG SCIENTIFIC RESEARCH LTD ; FORREST SCIENTIFIC RESEARCH LTD WAS DE BUG SCIENTIFIC RESEARCH LTD.. ; FOREST SCIENTIFIC RESEARCH LIMITED ; FORREST LINDSAY W ; FOREST SCIENTIFIC RESEARCH LTD ; DEBUG FILTERS LIMITED

Inventor(s):(std)**:** FORREST LINDSAY W ; JOHNSTON JOHN A ; LINDSAY WARREN FORREST ; RINZEI UOOREN FUORESUTO ; WICKHAM COLIN P ; WICKHAM COLIN PATRICK ; JOHNSTON JOHN ANTHONY ; FORREST LINDSAY WARREN

Inventor(s): COLIN PATRICK WICKHAM ; FORREST LINDSAY WARREN UPPER HUTT NZ ; JOHN ANTHONY JOHNSTON ; JOHNSTON JOHN ANTHONY LOWER HUTT NZ ; WICKHAM COLIN PATRICK MILFORD AUCKLAND NZ

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; BALDWINS INTELLECTUAL PROPERTY; ROBIC

Designated states: AT BE CH DE DK ES FR GB GR IT LI LU NL SE

International class (IPC 8-9):
A23C3/00 A61L2/00 A61L2/02 C02F1/48 C10G32/02 C10G33/02 C10L1/00 C12M1/12 C12N13/00 F02B3/06 (Advanced/Invention);
C12M1/12 F02B3/06 (Advanced/Non-invention);
A23C3/00 A61L2/00 A61L2/02 C02F1/48 C10G32/00 C10G33/00 C10L1/00 C12M1/12 C12N13/00 (Core/Invention);
F02B3/00 (Core/Non-invention)

International class (IPC 1-7): A01J11/00 A01N25/00 A01N25/34 A23C3/00 A23C3/07 A23C7/02 A23L1/025 A23L3/00 A23L3/26 A61L2/00 A61L2/02 A61L2/08 B01D35/06 C02F1/48 C07C7/00 C10G32/00 C10G32/02 C10L1/0 C10L1/00 C12M1/12 C12N13/0 C12N13/00 F02B51/04 G01R33/012 H01F7/18

CPC: C10G32/02 A61K35/16 A61K35/52 C12N13/00 A23C3/00 A61L2/0011 A61L2/02 C02F1/481 C10G33/02 F02B3/06

European class: A23C3/00 A61L2/00P2 A61L2/02 C02F1/48A C10G32/02 C10G33/02 C12N13/00 R02B3/06

US class: 123/538 210/222 210/695 422/22 426/237

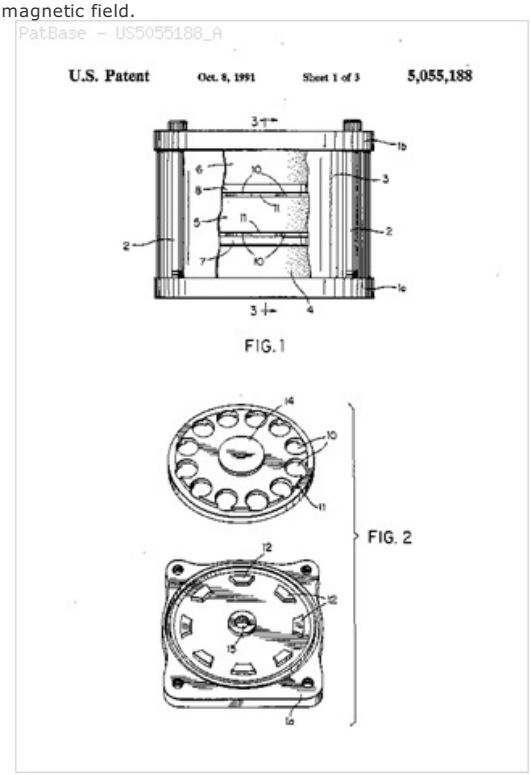
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Forward Citations: WO9820910, WO9820910, WO9701702, WO9322553, WO0015054, USD737992, USD561345, USD511198, USD500118, USD420092, US8026717, US7682641, US7621261, US7490593, US7434569, US7377268, US6959640, US6596174, US6290685, US6231908, US5997812, US5873353, US5866010,

US5637226, US5589065, US5556654, US5540835, US5534156, US5368748, US5359979, US5288401, US5243946, US5161512, US2010024782, US2007256672, US2007246430, US2007209643, US2006159562, US2006048758, US2003228399, US2003226447, GB2261994, GB2261994, EP0873774, CN105030075, CN103058337, CN103058337, CN103011352, CN101889612, AU677567,

Abstract:
Source: US5055188A **Apparatus** for the control of Protistal growth in distillates including a flow path through which the hydrocarbon distillate is caused to flow, and a magnet assembly for producing a magnetic field in or about the flow path so that distillate flowing through the flow path is passed circuitously through the magnetic field.



97) Family number: 11451285 (US4747298A)

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Title: Container leak detector

Priority: US19860938027 19861204 US19870106229 19871006 US19890303358 19890127 US19900512752 19900419 US19880289591 19881221 US19880182980 19880418 WO1988US01798 19880527

Family:

Publication number	Publication date	Application number	Application date
AU198822576 A1	19890502	AU19880022576	19880527
JP3502133 T2	19910516	JP19880506705T	19880527
US4747298 A	19880531	US19860938027	19861204
US4930342 A	19900605	US19870106229	19871006
US5205157 A	19930427	US19900512752	19900419
US5285678 A	19940215	US19880289591	19881221
WO8903521 A1	19890420	WO1988US01798	19880527

Probable Assignee: SEAL INTEGRITY SYSTEMS INC

Assignee(s):(std)**:** MCDANIEL PATRICK K ; PATRICK K MCDANIEL ; SEAL INTEGRITY SYSTEMS INC

Assignee(s): SEAL INTEGRITY SYSTEMS INC A CORP OF WA ; SEAL INTEGRITY SYSTEMS INC A CORP OF WASHINGTON

Inventor(s):(std)**:** MCDANIEL GALE E ; MCDANIEL PATRICK K ; MCDANIEL P K

Inventor(s): PATRICK K MCDANIEL

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

International class (IPC 8-9): G01M3/32 G01M3/36 (Advanced/Invention); G01M3/02 G01M3/32 (Core/Invention)

International class (IPC 1-7): G01M3/02 G01M3/32 G01M3/36

CPC: G01M3/3281 G01M3/329 G01M3/366

European class: G01M3/32E G01M3/32E2 G01M3/36D

US class: 73/49.2 73/49.3 73/49.8 73/492 73/52

Classification Explorer

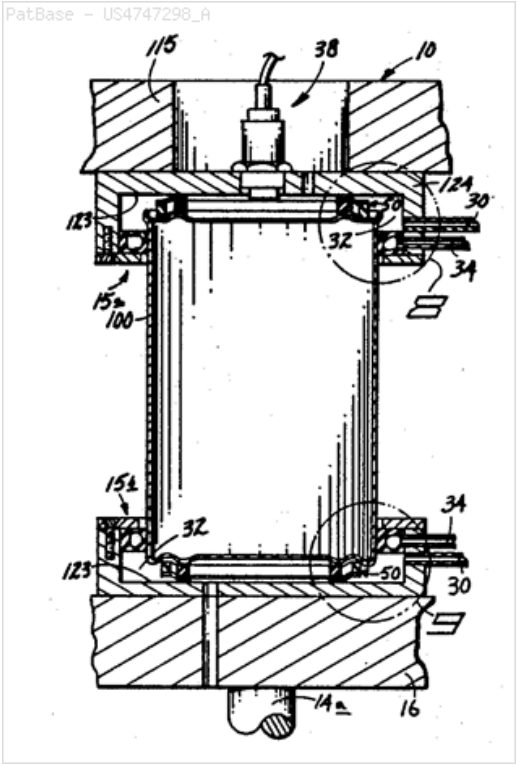
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Forward Citations: WO9401745, WO06088542, WO06083400, WO06083400, WO03046499, WO0192845, WO0192845, US9903782, US9637716, US9534980, US9528905, US9285291, US9279737, US9255573, US9023411, US8348252, US8327688, US8205484, US7764076, US7752888, US7624623, US7578170, US7571636, US7523644, US7252014, US7115979, US6792807, US6722184, US6687622, US6651622, US6615672, US6609414, US6450012, US6330823, US5918270, US5674333, US5668307, US5614661, US5333492, US5327784, US5285678, US5226316, US5156329, US5105654, US4934180, US4930342, US4852392, US2016003703, US2015316440, US2014193897, US2014165707, US2011135793, US2010243071, US2010206054, US2010192668, US2010154518, US2009229347, US2009139911, US2008196474, US2008116098, US2008000289, US2007266773, US2007051164, US2005280014, US2005040613, US2003047165, EP2749861, EP2749861, EP2042848, EP1448968, EP0624243, EP0459335, EP0450688, DE3838592, CN105277318, CN102937505,

Abstract:

Source: US4747298A Container testing **apparatuses** and methods for detecting leaks in containers such as at the rims of the container. Preferred **apparatus** have opposing testing heads with receptacles for receiving ends of a container. Each testing head has two seals. A first or end seal is preferably adapted to seal at the end wall of the container. The second or perimetric seal is expandable against the sidewall of the container. The perimetric seal has an internal expansion chamber which is pressurized to expand the seal into sealing engagement with the container. A differentially pressurized testing **fluid** is transmitting to a chamber formed between the seals and the container. A detector selectively senses changes in the container associated with the existence of a leak through which the differential pressure of the testing **fluid** is communicated.

PatBase - US4747298_A



98) Family number: 15005586 (US4747831A)

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Title: Cannula insertion set with safety retracting needle

Priority: EP19880303687 19880425 US19870043691 19870429 US19880200636 19880531 US19880200638 19880531 US19880199694 19880527 US19870799918 19870429

Family:

Publication number	Publication date	Application number	Application date
AT134522 E	19960315	AT19880303687T	19880425
AT284238 E	20041215	AT19880112596T	19880425
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US4927414 A	19900522	US19880199694	19880527
ZA8802700 A	19881228	ZA19880002700	19880418

Probable Assignee: MEDEX INC

Assignee(s):(std)**:** KULLI J C ; KULLI JOHN C ; PHASE MEDICAL INC

Assignee(s): MDC INVESTMENT HOLDINGS INC ; WILLIAMS SCOTT ; MEDEX INC ; PHASE MEDICAL INC 523 WEST SIXTH STREET SUITE 737 ; WILLIAMS SCOTT (AS AGENT FOR BOND HOLDERS) ; PHASE MEDICAL INC SANDY UTHA US ; BECTON DICKINSON AND CO ; J C KULLI ; JC KULLI ; JOHN C KULLI

Inventor(s):(std)**:** JOHN C KULLI ; KULLI JOHN C

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD

Designated states: AT BE CH DE ES FR GB IT LI NL SE

International class (IPC 8-9): A61M25/06 A61M5/32 A61M5/34 (Advanced/Invention); A61M5/34 (Advanced/Non-invention)

International class (IPC 1-7): A61M25/00 A61M25/06 A61M5/24 A61M5/32 A61M5/50

CPC: A61M5/322 A61M5/3232 A61M5/347 A61M25/0631 A61M2005/3206 A61M2005/3227 A61M2005/3231 A61M2025/006 A61M5/3234

European class: A61M25/06D2 A61M5/32C2F A61M5/32C2F2 A61M5/32C2F2F K61M25/00S8 K61M5/32C1B K61M5/32C2F1E K61M5/32C2F1K K61M5/32C2F2 K61M5/34E

US class: 188/763 600/576 604/110 604/195 604/198 604/218

Classification Explorer

Cited documents: WO8702254 A1, US4808169 A, US4790827 A, US4747829 A, US4695274 A, US4692156 A, US4664654 A, US4643200 A, US4643199 A, US4631057 A, US4592744 A, US4573976 A, US4542749 A, US4507117 A, US4488545 A, US4425120 A, US4292970 A, US4026287 A, US3890971 A, US3856010 A, US3314428 A, US3134380 A, US2876770 A, US2674246 A, GB1446767 A,

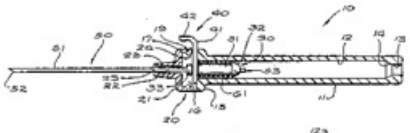
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AU646139, AU2002250406, AP602,

Abstract:
Source: US4747831A A cannula insertion needle projects from the "forward" end of a hollow handle. After use to start a cannula, the needle is released from the end of the handle and its sharp end retracted into the handle, beyond reach. Preferably the handle has an aperture big enough for the needle but too small for fingertips. In one preferred form of the invention, the needle rides in a carrier block that slides inside the handle. Initially the block is secured in the handle against the forward end, with the sharp end of the needle protruding outward through the aperture. A manually releasable latch holds the block in this position. The latch mechanism includes mutually interfering stop elements on the exterior of the block and interior of the handle. After the cannula is in place, the person using the **device** withdraws the needle from the patient and manually triggers the carrier-block latch by squeezing or rotating one of the stop elements out of engagement with the other. Then a coiled spring drives the block rearward to retract the needle into the handle. At the rear end of the handle a stop halts the carrier block and needle so that they are safely confined within the handle. A standard-size tube fitting on the rear of the handle and a hollow needle permit liquid flow to or from the patient through the handle temporarily.

PatBase - US4747831_A

FIG. 1



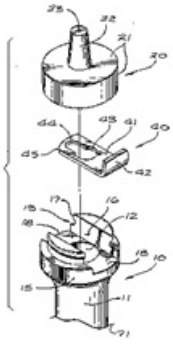


FIG. 2

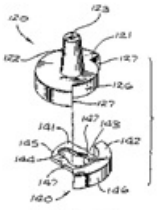


FIG. 3

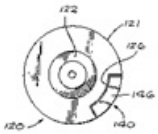


FIG. 3a

99) Family number: 24246510 (US2001034058A)

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Title: CULTURE **DEVICE** AND METHOD

Priority:
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Family:

Publication number	Publication date	Application number	Application date
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US6127141 A	20001003	US19990307932	19990510
US6214574 BA	20010410	US19990397291	19990915
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WO8912676 A1	19891228	WO1989US02011	19890510
WO9628240 A1	19960919	WO1996US02368	19960222
WO9830308 A1	19980716	WO1998US00362	19980112

Probable Assignee: MFD INC

Assignee(s):(std)**:** KOPF HENRY B ; HENRY B KOPF

Assignee(s): IGI I ANNEX FUND LP ; HENRII BII KOFU ; NCSRT INC ; SQUARE ; KOPF HENRY B CARY N C US ; MFD INC ; SMARTFLOW TECHNOLOGIES INC ; SQUARE 1 BANK

Inventor(s):(std)**:** HENRII BII KOFU ; HENRY B KOPF ; KOPF HENRY B

Inventor(s): NAME NOT GIVEN

Agent(s): CALLINANS

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

International class (IPC 8-9): B01D25/12 B01D61/00 B01D61/32 B01D63/02 B01D63/04 B01D63/08 B01D65/08 B01D71/06 C12M1/12 C12M1/14 C12M3/06 C12N5/02 (Advanced/Invention);
B01D25/12 (Advanced/Non-invention);
B01D25/12 B01D61/00 B01D63/04 B01D63/08 B01D71/00 C12M1/12 C12M1/14 C12M3/06 (Core/Invention)

International class (IPC 1-7): A61M1/18 B01D13/00 B01D13/01 B01D25/00 B01D25/12 B01D61/00 B01D61/32 B01D63/00 B01D63/04 B01D63/08 B01D65/08 B01D71/06 C12M1/00 C12M1/12 C12M1/14 C12M1/36 C12M3/00 C12M3/04 C12M3/06 C12N5/00 C12N7/00 C12P1/00

CPC: B01D63/084 B01D63/081 C12M29/16 C12M29/12 B01D2321/32 B01D2321/2083 B01D2321/2066 B01D2321/2025 B01D2321/168 B01D2321/16 B01D65/08 B01D61/32 Y10S435/818 C12M47/02 C12M25/10

European class: B01D61/32 B01D63/08B B01D63/08D10 B01D65/08 C12M23/42 C12M25/10 C12M29/04 C12M29/12 C12M29/16 C12M47/02 L01D321/16 L01D321/16H L01D321/20B12 L01D321/20F L01D321/20H L01D321/32

US class: 210/231 210/232 210/321.72 210/321.75 210/321.84 210/456 210/488 210/489 210/791 435/170 435/235.1 435/235.100S 435/236 435/238 435/239 435/252.1 435/286.5 435/293.1 435/293.100P 435/297.2 435/297.4 435/297.5 435/299.1 435/303.1 435/308.1 435/325 435/383 435/393 435/401 435/41 435/70.3 435/71.1 435/818 D23/209

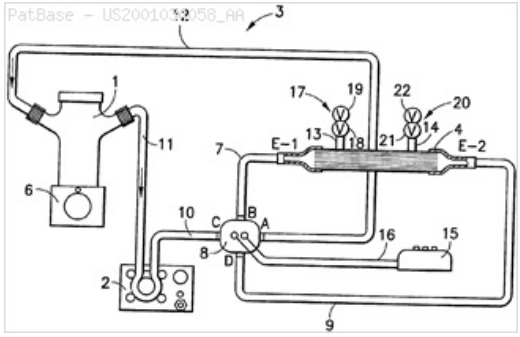
Classification Explorer

Cited documents: WO9628240 A1, WO8602379 A1, WO8600237 A1, WO8401959 A1, US802105 A, US744761 A, US6214574 BA, US5868930 A, US5593580 A, US5445737 A, US5437796 A, US5342517 A, US5232589

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Forward Citations: WO9830308, WO9318133, WO17102241, WO15065714, WO14039780, WO13192530, WO13013785, WO12115932, WO12115932, WO10037365, WO09087375, WO07030747, WO07030747, WO03061754, WO03022063, WO02076592, WO0206441, WO0074732, WO0048703, USD811519, USD762811, USD761381, USD752227, USD751189, USD750785, USD748801, USD748267, USD747487, USD746467, USD548357, USD517163, US9895480, US9802161, US9783750, US9776139, US9764447, US9745333, US9725689, US9677042, US9670520, US9670429, US9662614, US9650609, US9617506, US9586180, US9579440, US9545469, US9533088, US9504777, US9469865, US9428729, US9415151, US9402945, US9328969, US9306143, US9293680, US9289703, US9276188, US9260698, US9234173, US9200236, US9163265, US9138687, US9120987, US9114366, US9109193, US9101883, US9057045, US9006557, US9006556, US9005550, US8980088, US8951800, US8936724, US8919385, US8906688, US8846383, US8841122, US8808541, US8801922, US8795530, US8785181, US8785117, US8778669, US8765923, US8748588, US8741629, US8741145, US8734649, US8728315, US8691565, US8685731, US8685724, US8658772, US8656710, US8580161, US8574587, US8569531, US8552160, US8551336, US8541232, US8524086, US8513385, US8513384, US8513383, US8501009, US8495884, US8480608, US8476412, US8475660, US8454822, US8445772, US8440458, US8419945, US8382986, US8309347, US8273245, US8231787, US8226827, US8222001, US8177974, US8157999, US8153428, US8137554, US8128822, US8119368, US8114646, US8097458, US8048315, US8043512, US8007670, US8002727, US7976705, US7955504, US7955291, US7943371, US7922898, US7918999, US7896831, US7879601, US7858034, US7857957, US7836914, US7815852, US7794419, US7749184, US7641804, US7598075, US7588730, US7503902, US7500958, US7494589, US7455814, US7405072, US7384543, US7338461, US7316780, US7279215, US7270757, US7241419, US7172896, US7172570, US7169213, US7160719, US7087033, US7040142, US6992761, US6989086, US6982431, US6946075, US6929743, US6916420, US6893563, US6887362, US6878344, US6875459, US6852352, US6827960, US6825921, US6824740, US6824695, US6743193, US6726647, US6695807, US6686194, US6660171, US6645380, US6642048, US6602410, US6596234, US6596172, US6576476, US6569675, US6569340, US6524513, US6499366, US6498335, US6483582, US6469311, US6466316, US6383380, US6375899, US6368505, US6368067, US6332913, US6326605, US6319472, US6319465, US6317207, US6315900, US6313960, US6308737, US6297018, US6225059, US6214574, US6214226, US6214221, US6187267, US6177049, US6159425, US6139746, US6132608, US6129828, US6127141, US6097025, US6071748, US6048727, US6033100, US6025985, US6022742, US5894011, US5868930, US5766472, US5683916, US5658797, US5656421, US5593580, US2017073702, US2016167196, US2015158907, US2015024492, US2013236938, US2013102070, US2012282679, US2012149063, US2012028878, US2011218475, US2011215051, US2011206643, US2011203986, US2011196135, US2011196132, US2011196131, US2011195484, US2011189724, US2011189048, US2011177551, US2011174711, US2011159584, US2011127203, US2011067742, US2011020923, US2010326916, US2010326914, US2010317101, US2010256350, US2010203633, US2010095996, US2010075413, US2010065487, US2010063947, US2010018924, US2009305405, US2009277833, US2009255877, US2009255864, US2009211977, US2009171261, US2009155895, US2009035856, US2009034358, US2008275377, US2008257813, US2008254533, US2008248572, US2008220523, US2008220522, US2008214979, US2008208102, US2008166808, US2008135500, US2008135499, US2008135468, US2008093298, US2008047832, US2008041795, US2008035195, US2007241048, US2007125489, US2007112289, US2006281124, US2006266692, US2006161094, US2006125187, US2006105391, US2006105349, US2006090651, US2006079827, US2006019385, US2006014239, US2006009403, US2005245795, US2005238543, US2005220936, US2005218057, US2005209546, US2005182349, US2005148923, US2005131335, US2005123727, US2005106720, US2005053707, US2004248125, US2004243046, US2004168969, US2004142086, US2004142068, US2004132175, US2004077074, US2004014029, US2003228685, US2003221927, US2003201230, US2003185953, US2003173285, US2003136722, US2003126910, US2003082632, US2003042195, US2003035758, US2002155586, US2002139741, US2002110925, US2002072117, US2002050423, US2001045359, US2001034058, KR101575058, JP5789855, JP4897087, JP4897085, JP2016190235, JP2014520669, JP2014128798, JP2013103222, JP2012223756, JP2011507674, JP2010540240, JP2010234331, EP2591846, EP2514499, EP2441826, EP2393579, EP2393579, EP2340105, EP2270504, EP2184344, EP1775000, EP1754505, EP1476247, EP1476247, EP1476247, EP1174497, EP1013331, EP0980285, EP0980285, EP0431464, EP0343394, DE3818776, DE19827473, DE19808001, DE102012024549, DE102012024549, DE102012008197, DE102012002540, DE102009039554, CN105722967, CN105709599, CN105339077, CN103796743, CN103796743, CN103463989, CN103463989, CN102743911, CN102743911, AU768658, AU2009203592,

Abstract:
Source: US2001034058A A culturing system and method particularly useful for producing cellular products such as viral pathogens of cells. It includes a mass transfer culture segment, stacked filter plates to adjust the medium composition, and a product removal and concentration segment. The mass transfer culture segment utilizes changed directional flow of the medium to maximize cell growth and production of product. The stacked filter plates allow addition of sterile fresh medium and removal of growth inhibitory substances.



100) Family number: 7464158 (US5294397A)

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Title: HEAT EXCHANGER FOR **MEDICAL** TREATMENT

Priority:
EP19880401641 19880627 JP19870016009 19870128 JP19870116765U 19870731
JP19870116766U 19870731 JP19870160094 19870628 JP19870140073U 19870916
JP19900212669 19900809 JP19880152490 19880620 US19920876899 19920429
US19880211976 19880627 US19900492299 19900228 US19910726623 19910627
JP19870187040 19870727

Family:

Publication number	Publication date	Application number	Application date
AU198818442 A1	19890105	AU19880018442	19880628
AU607778 B2	19910314	AU19880018442	19880628
EP0297970 A2	19890104	EP19880401641	19880627
EP0297970 A3	19900627	EP19880401641	19880627
EP0297970 B1	19941012	EP19880401641	19880627
EP0524662 A1	19930127	EP19920116352	19880627
EP0524662 B1	19971112	EP19920116352	19880627
JP1022355 U1	19890206	JP19870116765U	19870731
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JP1046051 U1	19890322	JP19870140073U	19870916
JP1076870 A2	19890322	JP19880152490	19880620
JP1853004 Y	19910920	JP19870116765U	19870731
JP1853005 Y	19910920	JP19870116766U	19870731
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JP1890622 C3	19941207	JP19870187040	19870727
JP1890632 C3	19941207	JP19880152490	19880620
JP1935270 Y	19930524	JP19870140073U	19870916
JP2023309 Y2	19900625	JP19870116765U	19870731
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JP6011329 B4	19940216	JP19870187040	19870727
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JP63183341 A2	19880728	JP19870014007	19870126
JP63184864 A2	19880730	JP19870016009	19870128
JP63187863 A2	19880803	JP19870018704	19870130
JP64022355 U1	19890206	JP19870116765U	19870731
JP64022356 U1	19890206	JP19870116766U	19870731
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JP64076870 A2	19890322	JP19880152490	19880620
KR910003359 B1	19910528	KR19880007847	19880628
US5294397 A	19940315	US19920876899	19920429

Probable Assignee: TERUMO CORP

Assignee(s):(std)**:** HITACHI LTD ; SANYO ELECTRIC CO ; TOSHIBA COMPUTER ENG ; TOSHIBA AUDIO VIDEO ENG ; TERUMO KABUSHIKI KAISHA ; TERUMO CORP ; TOSHIBA CORP

Assignee(s): TERUMO CO LTD ; TOSHIBA AUDIO VIDEO ENG CORP ; TOSHIBA COMPUT ENG CORP ; TERUMO KK ; SANYO ELECTRIC CO LTD ; TERUMO CO

Inventor(s):(std)**:** ANPO KUNIAKI ; ATSUHIKO NOGAWA ; HIROAKI OSHIYAMA ; KOYAMA KAZUO ; NISHIKAWA YOSHINOBU ; NOGAWA ATSUHIKO ; NOGAWA ATSUHIKO TERUMO KABUSHI ; NOGAWHA YAZUHIKO ; OBARA MAKIKO ; OSHAMA HIROAKI ; OSHIYAMA HIROAKI ; OSHIYAMA HIROKI ; OSHIYAMA HIROKI TERUMO KABUSHI ; SAITO HIROMI ; TANAKA TOSHIMASA ; TOYODA MASAKI ; UEDA HIROSHI ; YAMANAKA NORIKO ; YAMASHITA HITOSHI

Inventor(s): OSHIYAMA HIROKI TERUMO KABUSHIKI KAISHA ; OSHIYAMA HIROKI TERUMO KK ; NOGAWA ATSUHIKO TERUMO KABUSHIKI KAISHA ; NOGAWA ATSUHIKO TERUMO KK

Designated states: BE FR GB IT SE

International class (IPC 8-9):
A61M1/14 A61M1/18 A61M1/36 A61M5/44 B01D63/02 B29C70/84 F24F11/02 F28D7/16 F28F21/06 F28F9/04 F28F9/16 G06F17/21 G11B20/18 H04N1/04 H04N1/19 (Advanced/Invention);
A61M1/36 (Advanced/Non-invention);
A61M1/14 A61M1/16 A61M1/36 A61M5/44 B01D63/02 B29C70/00 F28D7/00 F28F21/00 F28F9/04 G06F17/21 G11B20/18 H04N1/04 H04N1/19 (Core/Invention);
A61M1/36 (Core/Non-invention)

International class (IPC 1-7): A61M1/14 A61M1/18 A61M1/36 F28D7/16 G06F15/20

CPC: F28D2021/005 F28D7/1615 B01D63/022 A61M1/369 A61M5/44 A61M2205/366 B29C70/845 F28F9/0246 F28F9/0256 F28F9/162 F28F21/062

European class: A61M5/44 B01D63/02B10 B29C70/84A F28D7/16D F28F21/06B F28F9/02K F28F9/02K6 F28F9/16B K61M1/36T K61M205/36L

US class: 264/251 264/254 264/277

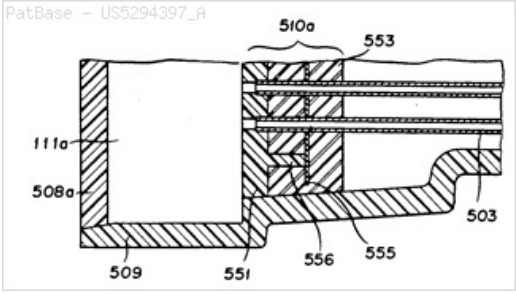
Classification Explorer

Cited documents: WO8602914 A1, US4789473 A, US4740344 A, US4722829 A, US4689191 A, US4642149 A, US4424190 A, US4352772 A, US4323115 A, US4288310 A, US4237013 A, US4177816 A, US4141835 A, US3961010 A, US3643805 A, US3579810 A, US3351131 A, US2837855 A, US1914700 A, JPS6183898, JPS61124638 U, JPS5814803, JP61124638 U1, JP61124638 U, JP61124638 A2, JP61083898 A2, JP59008959 A2, JP58043105 A2, JP58014803 A2, JP56059197 A2, JP55134297 A2, JP55043804 A2, JP54103787 A2, GB2157820 A1, GB2027864 A1, GB1570056 A, FR2584609 A1, FR2356494 A1, EP0167162 A2, EP0081118 A1, DE1501620 A1, DE1479420 A1, AU9432681 A1, AU9145382 A1, AU9047682 A1,

Forward Citations: WO9728953, WO9507813, WO13013647, WO0009054, WO0009054, US9500415, US9127848, US8864700, US8609022, US8602090, US8545754, US8434226, US8128595, US7806169, US7641632,

US7278984, US6893419, US6652565, US6338727, US6126684, US6047299, US2014182575, US2012308434, US2012063953, US2010290947, JP5333224, JP5333224, JP5064318, JP3073479, JP2148251, JP2010014321, JP2009093659, JP2007183047, GB2521913, EP1104273, EP0879135, CZ303190, CN102753211, CN102753211,

Abstract:
Source: US5294397A A heat exchanger for **medical** treatment comprises a cylindrical blood passing space and a multiplicity of heat-exchanging tubes disposed inside the blood passing space and extending in the longitudinal direction of the blood passing space and provided with an inner space watertightly separated from the blood passing space for effecting exchange of heat between the blood being passed through the blood passing space and a heat-exchanging medium being passed through the inner spaces of the heat-exchnging tubes through the medium of walls of the heat-exchanging tubes. Blood inlet tube for introducing blood into the blood passing space and a blood outlet tube for discharging blood from within the blood passing space are expended inwardly from outside substantially along a straight **lines** perpendicular to the longitudinal direction of the blood passing space and tangent to the peripheral plane of the blood passsing space and communicating with the blood passing space. Optionally, the heat exchanger further comprises blood chambers disposed one each near the blood inlet and the blood outlet and each formed of an empty space destitute or devoid of the arrangement of the heat-exchanging tubes, and ribs formed on the inner wall of the blood passing space for retarding the flow of blood.



101) Family number: 29361784 (US5066283A)

Title: **DEVICE** FOR THE WITHDRAWAL AND STORAGE OF INDIVIDUAL **FLUID** FRACTIONS LATHERED AT GIVEN INTERVALS

Priority: AT19870000201 19870202 AT19870001732 19870709 US19890415267 19890802 WO1988AT00005 19880202 US19910794244 19911119 WO1988AT00051 19880711

Family:

Publication number	Publication date	Application number	Application date
AT20187 A	19900715	AT19870000201	19870202
AT391998 B	19901227	AT19870000201	19870202
AT83636 E	19930115	AT19880901205T	19880202
AT93698 E	19930915	AT19880907192T	19880711
BRPI8805089 A	19890815	BR1988PI05089	19880202
CN1030352 A	19890118	CN19881002485	19880422
DE3876882 D1	19930204	DE19883876882	19880202
DE3883736 D1	19931007	DE19883883736	19880711
DK535688 A	19880930	DK19880005356	19880927
DK535688 A0	19880927	DK19880005356	19880927
EP0300008 A1	19890125	EP19880901205	19880202
EP0300008 B1	19921223	EP19880901205	19880202
EP0322453 A1	19890705	EP19880907192	19880711
EP0322453 B1	19930901	EP19880907192	19880711
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JP3505821 T2	19911219	JP19880506239T	19880202
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US5097834 A	19920324	US19890415267	19890802
US5237993 A	19930824	US19910794244	19911119
WO8805643 A1	19880811	WO1988AT00005	19880202
WO8900397 A1	19890126	WO1988AT00051	19880711

Probable Assignee: SKRABAL FALCO

Assignee(s):(std)**:** AVL AG ; SKRABAL FALKO DR ; AVL MEDICAL INSTR AG ; AVL VERBRENNUNGSKRAFT MESSTECH

Assignee(s): AVL MEDICAL INSTRUMENTS AG SCHAFFHAUSEN CH ; AVL MEDICAL INSTRUMENTS SCHAFFHAUSEN CH AG ; A V L AG ; AVL MEDICAL INSTRUMENTS AG ; SKRABAL FALCO LINDENHOFWEG ; SKRABAL FALCO ; AVL GES F VERBRENNUNGSKRAFTMASCHINEN UN ; AVL GESELLSCHAFT FUER VERBRENNUNGSKRAFTMASCHINEN U ; AVL GESELLSCHAFT FUER VERBRENNUNGSKRAFTMASCHINEN UN ; AVL GRABENSTRASSE 11 CH 8201 SCHAFFHAUSEN SCHWEIZ ; AVL GRABENSTRASSE 11 CH 8201 SCHAFFHAUSEN SCHWEIZ AG

Inventor(s):(std)**:** FALKO SKRABAL ; SKRABAL FALKO ; SKRABAL FALKO DR ; SUKURAABARU FUARUKO

Inventor(s): SKRABAL FALKO A 8010 GRAZ AT

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

International class (IPC 8-9): A61B10/00 A61B5/00 A61B5/145 A61B5/1473 A61B5/155 A61F2/02 A61M1/00 A61M5/00 A61M5/14 A61M5/172 (Advanced/Invention);
A61B5/00 (Advanced/Non-invention);
A61B10/00 A61B5/00 A61B5/15 A61M1/00 A61M5/168 (Core/Invention);
A61B5/00 (Core/Non-invention)

International class (IPC 1-7): A61B5/00 A61B5/14 A61F2/02 A61M1/00 A61M25/00 A61M5/00 A61M5/14 G01N33/50 G01N33/66 H61B5/00

CPC: Y10S128/13 A61B5/15003 A61B5/150389 A61B5/150511 A61B5/150755 A61B5/155 A61B5/150244 A61B5/150251 A61B5/150396 A61B5/153 A61B5/14525 A61B5/14542 A61B5/1473 A61B5/14532 A61B5/14865 A61B5/157 A61B10/0045 A61B10/007 A61M5/1723 A61B5/1486 A61B5/4839 A61M1/0058 A61M1/0084 A61M2230/201 A61M2230/65

European class: A61B10/00L A61B5/145F A61B5/145G A61B5/145N A61B5/1473 A61B5/1486B A61B5/14B8 A61B5/157 A61B5/48J2 A61M1/00K A61M1/00T2 A61M5/172B K61B10/00L8 K61B5/1486 K61B5/48J2 K61M1/00T2

US class: 128/632 128/637 128/762 128/DIG.13 600/309 600/366 600/368 600/573 600/575 604/152 604/27 604/50 604/503

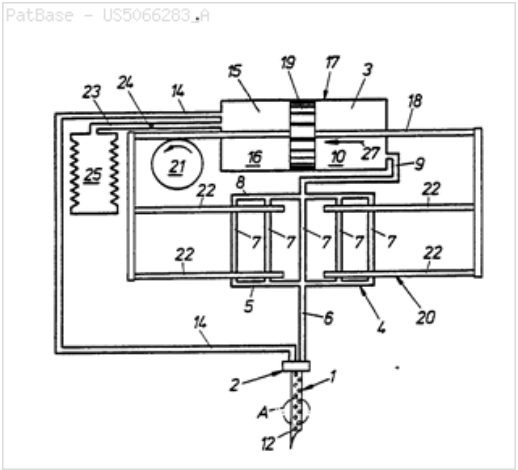
Classification Explorer

Cited documents: WO8404033 A1, WO8101794 A1, WO8100888 A1, WO8001755 A1, US5106365 A, US4774955 A, US4761371 A, US4705500 A, US4633878 A, US4632119 A, US4573968 A, US4526569 A, US4516580 A, US4265249 A, US4253456 A, US4243030 A, US4240438 A, US4221567 A, US4214593 A, US4134402 A, US4127111 A, US4077395 A, US3765402 A, US3674011 A, US3616789 A, US3512517 A, US3429313 A, EP0273258 A1, EP0154002 A1, EP0134758 A2, EP0110687 A1, EP0070674 A2, DE3515624 A1, DE3307810 A1, DE3040168 A1, DE2209322 B,

Forward Citations: WO9945982, WO9945982, WO9939629, WO9917749, WO9804191, WO9617550, WO9118551, WO17037748, WO16032691, WO15157074, WO12156478, WO11031351, WO10080648, WO09049823, WO09049252, WO09032553, WO09032553, WO09029666, WO08038274, WO08037316, WO07049961, WO07049961, WO07044548, WO07044548, WO07003431, WO06126002, WO06103061, WO0162316, USRE46217, USRE44695, US9901307, US9895089, US9883830, US9883829, US9863837, US9844628, US9839395, US9833143, US9801572, US9801545, US9782076, US9775543, US9757061, US9750460, US9750441, US9750439, US9741139, US9730584, US9724045, US9724028, US9717449, US9697332, US9669199, US9669162, US9669156, US9668682, US9656018, US9649069, US9649057, US9632013, US9625413, US9610034, US9585607, US9585605, US9574914, US9555227, US9555226, US9538946, US9510782, US9498159, US9498155, US9477811, US9451910, US9451908, US9446194, US9427183, US9420968, US9420965, US9414782, US9414777, US9364173, US9357765, US9351668, US9339238, US9339222, US9332969, US9326716, US9326714, US9323898, US9320461, US9314198, US9314196, US9314195, US9302045, US9282925, US9247901, US9234514, US9226701, US9220449, US9192328, US9177456, US9155496, US9149234, US9149233, US9149219, US9143569, US9135402, US9125989, US9119582, US9107623, US9095290, US9078608, US9078607, US9072477, US9066709, US9066697, US9066695, US9066694, US9060742, US9056161, US9055901, US9044199, US9042953, US9039975, US9035767, US9028409, US9022988, US9020573, US9020572, US9014773, US9011332, US9011331, US9000929, US8993331, US8986209, US8974386, US8956321, US8932216, US8930203, US8926585,

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US2009002179, US2008296155, US2008287766, US2008281179, US2008281171, US2008278332, US2008262469, US2008214978, US2008214916, US2008214910, US2008200838, US2008194935, US2008183061, US2008166399, US2008161723, US2008160073, US2008160072, US2008160071, US2008096801, US2008004601, US2008004515, US2007208245, US2007191716, US2007191702, US2007119710, US2007106259, US2007088271, US2007083091, US2007083090, US2007082342, US2007010799, US2006271020, US2006258929, US2006229531, US2006222566, US2006217685, US2006217684, US2006211933, US2006200070, US2006195046, US2006160722, US2006079809, US2006036141, US2006011493, US2005203360, US2005154271, US2005137471, US2005089994, US2004254432, US2004254431, US2004230179, US2004230132, US2004230118, US2004168934, US2004158232, US2004153028, US2003158519, US2003143746, US2002123676, US2001041824, NL1032756, KR100963798, JP2012239916, JP2011507556, JP2010508949, JP2008523959, GR1007310, GB2506147, GB2506147, FR2810553, EP2338408, EP2228004, EP2184079, EP1857134, EP0831946, EP0767687, EP0486059, EP0389719, EP0367752, DE4001760, DE19882693, CN102429666, CN102429639, CN102378595, AT397911, AT397610,

Abstract:
Source: US5066283A PCT No. PCT/AT88/00051 Sec. 371 Date Mar. 8, 1989 Sec. 102(e) Date Mar. 8, 1989 PCT Filed Jul. 11, 1988 PCT Pub. No. WO89/00397 PCT Pub. Date Jan. 26, 1989.A **device** for withdrawing body **fluids** such as blood, urine and tissue **fluid** includes a withdrawal unit, a suction unit, and a storage system receiving the body **fluid** between the withdrawal unit and the suction unit, the storage system being divided into separate areas holding the **fluid** fractions gathered at given intervals and permitting the individual **fluid** fractions to be identified with regard to their time of withdrawal. In this way tests requiring repeated sampling at short intervals are made easier for doctor and patient.



102) Family number: 52208418 (US4767417A)

Title: Drainage **device** for collecting liquids from a body cavity

Priority:
US19860830577 19860218 US19860906750 19860912 US19880264444 19881028
US19890406820 19890913 US19900626895 19901213 US19910778583 19911017
US19930020637 19930222 WO1991US09291 19911205 US19930047152 19930413

Family:

Publication number	Publication date	Application number	Application date
AT134513 E	19960315	AT19910901572T	19911205
AU199191378 A1	19920708	AU19910091378	19911205
AU661668 B2	19950803	AU19910091378	19911205
CA2095325 AA	19930430	CA19912095325	19911205
CA2095325 C	19990914	CA19912095325	19911205
DE69117530 D1	19960404	DE19916017530	19911205
DE69117530 T2	19960829	DE19916017530T	19911205
EP0561958 A1	19930929	EP19920901572	19911205
EP0561958 A4	19931208	EP19920901572	19911205
EP0561958 B1	19960228	EP19920901572	19911205
JP6506365 T2	19940721	JP19920502861T	19911205
US4767417 A	19880830	US19860830577	19860218
US4781707 A	19881101	US19860906750	19860912
US5133703 A	19920728	US19900626895	19901213
US5203778 A	19930420	US19910778583	19911017
US5354262 A	19941011	US19930020637	19930222
US5372593 A	19941213	US19930047152	19930413
WO9210219 A1	19920625	WO1991US09291	19911205

Probable Assignee: BOEHRINGER LABORATORIES A CORP OF PA

Assignee(s):(std)**:** BOEHRINGER LAB

Assignee(s): BOEHRINGER LABORATORIES ; BOEHRINGER LABORATORIES A CORP ; BOEHRINGER LABORATORIES A CORP OF PA ; FIRSTRUST BANK ; BOEHRINGER LABORATORIES NORRISTON PA ; BOEHRINGER LABORATORIES A OF COMMW CORP ; BOEHRINGER LABORATORIES A OF COMMW OF PENNSYLVANIA ; BOEHRINGER LABORATORIES NORRISTON PA US ; BOEHRINGER LABORATORIES A OF COMMW OF PENNSYLVANIA CORP ; KARPOWICZ JOHN ; BOEHRINGER JOHN R

Inventor(s):(std)**:** BENCE JEFFREY ; BOEHRINGER JOHN ; BOEHRINGER JOHN R ; KARPOWICZ JOHN ; SUTTER STEVEN T

Inventor(s): KARPOWICZ JOHN GLENMOORE PA 19343 US ; JOHN KARPOWICZ ; JOHN R BOEHRINGER

Agent(s): ROBERT G HALLIDAY; BERESKIN AND PARR

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

International class (IPC 8-9): A61M1/00 A61M1/16 A61M1/34 A61M1/36 A61M1/38 C11D1/62 C11D17/00 C11D3/00 C11D3/20 (Advanced/Invention);
A61M1/16 A61M1/34 (Advanced/Non-invention);
A61M1/00 A61M1/36 (Core/Invention)

International class (IPC 1-7): A61M1/00 A61M1/14 A61M1/34 A61M1/36 A61M1/38 A61M37/00 B01D15/00 B01D61/00 C02F9/00

CPC: Y10S210/902 A61M2209/082 A61M1/0013 A61M1/3633 A61M2202/08

European class: A61M1/00A6 A61M1/36C4F K61M202/08

US class: 128/898 210/256 210/263 210/502.1 210/651 210/692 210/902 422/44 604/31 604/317 604/319 604/4 604/403 604/5 604/5.03 604/6 604/6.09 609/319

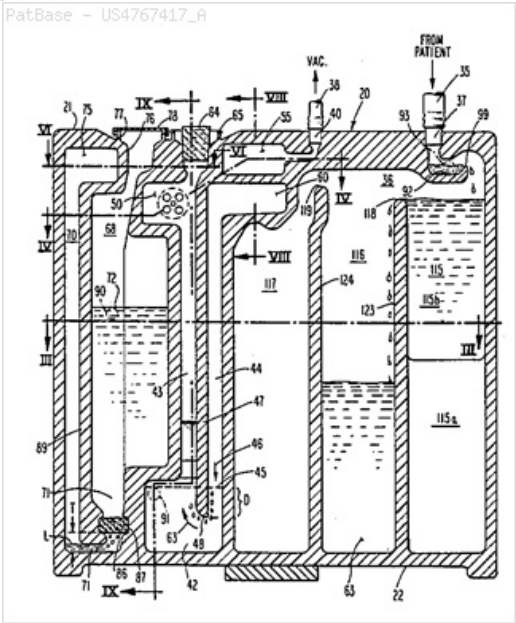
Classification Explorer

Cited documents: WO8602844 A1, WO8403838 A1, WO8400489 A1, US5203778 A, US5049146 A, US4994022 A, US4988799 A, US4957492 A, US4954251 A, US4857042 A, US4798578 A, US4781707 A, US4775482 A, US4769019 A, US4767417 A, US4735606 A, US4705947 A, US4705497 A, US4675010 A, US4642088 A, US4573992 A, US4544370 A, US4534765 A, US4522623 A, US4519796 A, US4505703 A, US4465483 A, US4455141 A, US4443220 A, US4439190 A, US4432763 A, US4430085 A, US4424053 A, US4397643 A, US4372336 A, US4346711 A, US4275732 A, US4111204 A, US4105031 A, US4047526 A, US4033345 A, US4018224 A, US4006745 A, US3866608 A, US3863664 A, US3863634 A, US3853128 A, US3847152 A, US3845765 A, US3838794 A, US3809085 A, US3780738 A, US3719197 A, US3704709 A, US3683913 A, US3680560 A, US3653913 A, US3559647 A, US3517450 A, US3363627 A, US3363626 A, US2886035 A, SU1147394 T, EP0327136 A2, EP0082510 A1, AU607894 B2, AU594964 B2,

Forward Citations: WO9926550, WO9830256, WO9830256, WO9640311, WO9117790, WO17070117, WO17041849, WO08045433, WO04084792, WO03066136, WO0245778, WO0245778, WO02094347, WO0172350, WO0038756, WO0029044, WO0029044, USRE39498, USRE37584, USRE35225, USD802744, USD770173, USD765830, USD764654, USD764653, USD764048, USD764047, USD430286, US9855374, US9814807, US9642951, US9572409, US9409128, US9314599, US9259525, US9205235, US9192699, US9186445, US9119907, US8992493, US8986238, US8882678, US8876911, US8845603, US8637460, US8628671, US8591952, US8506968, US8425486, US8413812, US8388911, US8240470, US8177763, US8157103, US8080513, US8048015, US8030281, US7914508, US7829018, US7807466, US7758556, US7740800, US7704455, US7674248, US7611831, US7601298, US7585292, US7479130, US7459695, US7445756, US7439052, US7429325, US7425304, US7407663, US7407662, US7402278, US7402246, US7393826, US7375191, US7364658, US7361739, US7335334, US7332125, US7297262, US7297261, US7214216, US7204958, US7201870, US7198751, US7195710, US7189352, US7166223, US7115115, US7105093, US7068361, US7037642, US7033500, US7025877, US6991727, US6986867, US6951713, US6926584, US6884228, US6706008, US6673055, US6672477, US6659987, US6632203, US6626877, US6582386, US6565802, US6558341, US6544727, US6537495, US6527758, US6494869, US6415201, US6391009, US6368310, US6364864, US6331387, US6328709, US6264890, US6251291, US6244311, US6217544, US6200276, US6183453, US6105639, US6099493, US6039724, US6032705, US6017493, US5931822, US5931821, US5925025, US5897534, US5885240, US5830198, US5807359, US5776118, US5743894, US5741238, US5738662, US5656027, US5653888, US5645540, US5634893, US5601191, US5588958, US5431185, US5423781, US5409117, US5382244, US5380314, US5374257, US5372593, US5356374, US5354262, US5286262, US5279550, US5242434, US5223228, US5160333, US5154712, US5149325, US5141504, US5120305, US5114416, US5102404, US5087250, US5074839, US5019059, US5002534, US5002529, US4994050, US4994022, US4988342, US4981473, US4963135, US4955874, US4943288, US4929244, US4925447, US4923451, US4898593, US4892529, US4857042, US2014121616, US2011238022, US2011200695, US2011150929, US2010272613, US2010244780, US2010187065, US2010185165, US2010133160, US2010130957, US2010086604, US2010063463, US2009181877, US2009032468, US2009028902, US2009017069, US2008267997, US2008234621, US2008227726,

US2008220017, US2008220016, US2008214438, US2008203022, US2008021415, US2007246423, US2007241119, US2007225665, US2007212376, US2007189968, US2007181485, US2007138094, US2007039887, US2007031923, US2006197031, US2006191830, US2006184131, US2006172939, US2006142707, US2006122558, US2006093999, US2006067857, US2006060520, US2006014339, US2006000776, US2005258109, US2005234429, US2005148991, US2005131333, US2005101021, US2005090444, US2005016912, US2005004004, US2004256307, US2004217047, US2004147865, US2004106556, US2004072503, US2003150809, US2003127386, US2003119782, US2003104350, US2002115585, US2002056460, KR101169783, KR100838508, EP2258417, EP1605889, EP1059094, EP0952857, EP0743071, AU723155, AU620657, AU2015202016, AU2002228908, AU2002227340, AU2002227340,

Abstract:
Source: US4767417A A suction drainage **device** is provided, particularly for collecting liquids and any solids that may be carried therewith from a cavity of a body. Suction draws air or other gases from a collection chamber, and liquid and entrained particles from the cavity are drawn into a collection chamber. The **device** also has a water manometer. A liquid seal is also provided through which is drawn air and other gases from the collection chamber. A **fluid** control valve-like **device** is provided between various portions, chambers, and conduits of the **device**, and preferably between the **device** itself and atmosphere, such control **device** preferably being a gas permeable, liquid impermeable membrane, but optionally comprising a baffle. A facility is provided for breaking up bubbles of air at the inlet to the water in the manometer. Sampling openings are also provided, as are visual indications in the event of an upset of the **device**, an optional visual indication for magnifying observation of an air leak, an atmosphere opening on multiple planes to prevent its accidental blocking, an optional **connection** to a pump for auto-transfusion purposes, further a double collection chamber for simultaneously handling two cavities, and a removable calibrated tape for recording and maintaining a permanent record of patient progress.



103) Family number: 2980193 (US4950230A)

Title: METHOD AND **APPARATUS** FOR BAGLESS CONTINUOUS AMBULATORY PERITONEAL DIALYSIS

Priority: CA19880561353 19880314 US19870027760 19870319 WO1988US00571 19880219 US19890327418 19890320

Family:

Publication number	Publication date	Application number	Application date
AT116136 E	19950115	AT19880903495T	19880219
AU198816813 A1	19881010	AU19880016813	19880219
CA1316059 A1	19930413	CA19880561353	19880314
DE3852638 D1	19950209	DE19883852638	19880219
DE3852638 T2	19950518	DE19883852638T	19880219
EP0354915 A1	19900221	EP19880903495	19880219
EP0354915 A4	19900514	EP19880903495	19880219
EP0354915 B1	19941228	EP19880903495	19880219
JP2502882 T2	19900913	JP19880503390T	19880219
JP2772007 B2	19980702	JP19880503390T	19880219
US4950230 A	19900821	US19890327418	19890320
WO8806895 A1	19880922	WO1988US00571	19880219

Probable Assignee: FRESENIUS AG

Assignee(s):(std)**:** DELMED INC ; FRESENIUS AG

Assignee(s): FRESENIUS AG 66606 ST WENDEL DE ; FRESENIUS USA INC ; FURESENIUSU YUU ESU EI INC ; KENDELL LAMAR CHET ; FRESENIUS 66606 ST WENDEL DE AG

Inventor(s):(std)**:** KENDELL LAMAR C ; KENDELL LAMAR CHET ; KENDELL LAMAR

Inventor(s): KENDELL LAMAR CHET OGDEN UTAH 84404 US ; KENDERU RAMAA CHETSUTO ; LAMAR CHET KENDELL

Agent(s): GOWLING LAFLEUR HENDERSON LLP

Designated states: AT AU BE CH DE DK FI FR GB IT JP LI LU NL NO SE

International class (IPC 8-9): A61M1/00 A61M1/28 A61M39/22 F16K11/085 (Advanced/Invention); A61M1/28 A61M39/00 F16K11/02 (Core/Invention)

International class (IPC 1-7): A61M1/00 A61M1/28

CPC: Y10T137/86823 A61M1/285 A61M1/28 A61M39/223

European class: A61M1/28 A61M39/22D

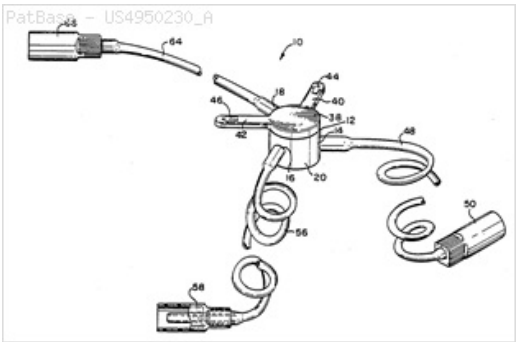
US class: 137/625.41 604/248 604/28 604/29 604/32

Classification Explorer

Cited documents: US4662868 A, US4593717 A, US4566480 A, US4471942 A, US4456223 A, US4239041 A, US4219021 A, US4082095 A, US3780736 A, US3678959 A, US3078848 A, US3048192 A, US2564977 A, US2157614 A, US1853202 A, US1710540 A, US1215512 A, JP60023004 B4, JP57049459 A2, JP57025861 A2, JP53108883 A2, JP49109942 A2, EP0070087 A1,

Forward Citations: WO9741902, WO9528975, WO9407556, WO9118632, WO16139368, WO14116368, WO11128748, WO09070566, WO06056827, WO06047181, WO06047181, WO05082437, WO05046786, WO05046786, WO04091695, WO0024313, WO0002617, US9782576, US9775981, US9757508, US9662435, US9636448, US9545470, US9511183, US9500287, US9492574, US9486569, US9427522, US9295821, US9295742, US9272127, US9067009, US9050401, US8900174, US8747887, US8715222, US8617465, US8540687, US8313452, US8246592, US8168848, US8070709, US8021348, US7988680, US7927318, US7914495, US7910791, US7896864, US7896856, US7867206, US7806851, US7794438, US7771383, US7575564, US7559913, US7469716, US7083719, US6764482, US6589197, US6508800, US6508778, US6485483, US5916201, US5865808, US5766211, US5746199, US5713850, US5540668, US5468230, US5417667, US5403290, US5288290, US5207641, US5193574, US5104387, US5045053, US5002528, US2017021079, US2015129061, US2014188032, US2014088455, US2012065502, US2011166493, US2011064608, US2010228232, US2010217179, US2009143723, US2007255167, US2007161946, US2006089603, US2006005886, US2005173344, US2005139276, US2005126998, US2005015070, FR2863679, FR2692791, EP2392380, EP2377570, EP1688159, EP1547645, EP1221323, EP0925797, EP0925797, EP0857075, EP0758909, EP0715860, EP0576380, DE29715833, DE102013103986, CN104936650, CN104936650, CN104721920, CN103596619, AU751570, AU702421, AU2011241944,

Abstract:
Source: US4950230A A method and **apparatus** for bagless continuous ambulatory peritoneal dialysis comprising a valve having first, second and third **fluid** ports. The first and second **fluid** ports are secured to first and second **fluid** containers, respectively, through tubing and respective first and second connector assemblies. The third **fluid** port is **connected** through tubing to a catheter implanted in the abdominal wall of a user, also through a connector assembly. The valve includes an actuator moveable at least between four positions, a first position in which all of the **fluid** ports are blocked to prevent the flow of **fluid** through the valve, a second position in which the second and third **fluid** ports are interconnected, a third position in which the first and second **fluid** ports are interconnected, and a fourth position in which the first and third **fluid** ports are interconnected. The method employs the valve to provide bagless continuous ambulatory peritoneal dialysis by reversing the **fluid** containers and the direction of movement of the valve actuator for alternate cycles.



104) Family number: 29364620 (US4828716A)

Title: **APPARATUS** AND METHOD FOR SEPARATING PHASES OF BLOOD

Priority:
CA19880561554 19880316 CA19890601973 19890607 CA19890601992 19890607
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US19880192847 19880511 US19870033769 19870403 CA19890734606 19890502
US19920999533 19921231 US19920857099 19920320

Family:

Publication number	Publication date	Application number	Application date
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US5030341 A	19910709	US19890346063	19890502
US5308506 A	19940503	US19920999533	19921231

Probable Assignee: DUPONT CANADA INC

Assignee(s):(std)**:** ANDRONIC DEVICES LTD ; ANDRONIC TECH INC ; ANDRONIC TECHNOLOGIES INC ; DU PONT CANADA ; BOHL RAINER M ; DANCE MARK N ; DUPONT CANADA INC ; MCEWEN JAMES A ; GODOLPHIN WILLIAM J ; FURSE MARTY L ; OSBORNE JOHN C ; FURSE MARTIN L ; ANDORONITSUKU DEIBAISHIZU LTD ; ANDORONITSUKU TECHNOL INC

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Inventor(s):(std)**:** BOHL RAINER MATTIAS ; BOHL RAINIER MATTIAS ; DANCE MARK N ; DANCE MARK NICHOLAS ; FURSE MARTIN L ; FURSE MARTIN LEWIS ; FURSE MARTY L ; FURSE MARTY LEWIS ; GODOLPHIN WILLIAM J ; BOHL RAINER M ; GODOLPHIN WILLIAM JOHN ; GOLDOLPHIN WILLIAM J ; JIEEMUSU EI MATSUKUEN ; JIEEMUZU EI MATSUKUEN ; JIYON SHII OZUBOON ; JIYOON SHII OZUBOON ; MAACHIN ERU FUAASU ; MAACHIN RUISU FUAAZU ; MAAKU ENU DANSU ; MAAKU NIKORASU DANSU ; MCEWEN JAMES ALLAN ; MCEWEN JAMES ALLEN ; OSBORNE JOHN C ; MCEWAN JAMES A ; MCEWEN JAMES A ; OSBORNE JOHN CALVIN ; REINAA EMU BOORU ; REINAA MATEIASU BOORU ; UIRIAMU JIEI GADARUFUIN ; UIRIAMU JIYOON GODORUFUIN ; RAINER M BOHL ; MARTIN L FURSE ; MARK N DANCE ; WILLIAM J GOLDOLPHIN ; JOHN C OSBORNE ; JAMES A MCEWEN ; JAMES A MCEWAN

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Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; OYEN WIGGS GREEN AND MUTALA; SIM AND MCBURNEY

Designated states: AT BE CH DE ES FR GB GR IT LI LU NL SE

International class (IPC 8-9): A61B5/15 A61B5/154 A61J1/05 A61M1/02 B01D17/038 B01L3/14 B01L9/06 B04B11/00 B04B13/00 B04B5/00 B04B5/02 B04B5/04 G01N1/28 G01N33/48 G01N33/49 (Advanced/Invention);
A61B5/15 A61M1/02 B04B11/00 B04B13/00 B04B5/00 G01N1/28 G01N33/48 (Advanced/Non-invention);
A61B5/15 A61J1/05 A61M1/02 B01L3/14 B01L9/00 B04B5/00 G01N1/28 G01N33/48 G01N33/49 (Core/Invention)

International class (IPC 1-7):	A61B5/14 A61J1/05 A61M1/02 B01D17/038 B01D21/26 B01D33/02 B01L3/14 B04B1/06 B04B11/00 B04B11/02 B04B13/00 B04B5/00 B04B5/02 B04B5/04 G01N1/18 G01N1/28 G01N21/00 G01N33/48 G01N33/49
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US class:	210/104 210/143 210/514 210/515 210/516 210/518 210/740 210/744 210/745 210/782 210/789 210/85 210/94 222/188 222/490 222/92 422/101 422/102 422/533 422/550 422/72 422/82.05 422/82.09 422/918 436/177 494/10 494/16 494/19 494/37 494/43 494/7

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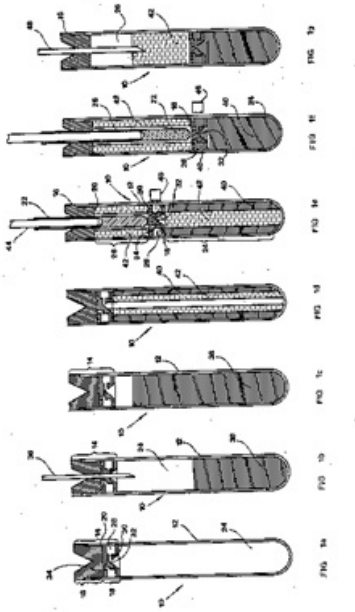
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Abstract:

Source: US4828716A Method and **apparatus** for partitioning a pre-selected phase of a sample of liquid, such as blood, having a plurality of phases of differing densities the method comprising the steps of introducing a sample into a chamber of constant cross-sectional shape and a volume greater than that of the sample, ordering the phases of the sample concentrically by rotating the chamber about its longitudinal axis, reducing the volume of the chamber in response to a separation control signal, removing a portion of the separated sample in order of phase, deriving information about the portion of the sample being removed from the chamber and modifying the separation control signal in response to the derived information. Also disclosed is an **apparatus** for separating a pre-selected phase of a sample contained in an enclosed chamber, wherein said **apparatus** can be used with a separating means which rotates the chamber about either a longitudinal axis of the chamber, or about an axis perpendicular to the longitudinal axis of the chamber and not passing through the chamber. In addition, separating means in which such an enclosed chamber is rotated about a longitudinal axis is described.

PatBase - US4828716_A



105) Family number: 28673856 (US2003155254A)

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Title: SOLID MULTI-COMPONENT MEMBRANES, ELECTROCHEMICAL REACTOR COMPONENTS, ELECTROCHEMICAL REACTORS AND USE OF MEMBRANES, REACTOR COMPONENTS, AND REACTOR FOR OXIDATION REACTIONS

Priority:

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Family:

Publication number	Publication date	Application number	Application date
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CN1107355 C	20030430	CN19981023791	19981031
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Designated states: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

International class (IPC 8-9): B01D53/22 B01D53/32 B01D71/02 B01J12/00 B01J19/00 B01J19/08 B01J19/24 B01J23/10 B01J23/26 B01J23/63 B01J23/76 B01J23/86 B01J35/00 B01J35/06 B01J4/04 B01J8/00 C01B13/02 C01B13/14 C01B3/24 C01B3/36 C01B3/38 C01C3/02 C01G45/00 C01G49/00 C01G51/00 C01G53/00 C04B35/00 C04B35/01 C25B1/00 C25B1/02 C25B13/00 C25B13/04 C25B15/08 C25B3/00 C25B3/02 C25B5/00 C25B9/00 H01M4/86 H01M8/02 H01M8/10 H01M8/12 (Advanced/Invention);
B01D71/02 C04B35/00 (Advanced/Non-invention);
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B01D71/02 (Core/Non-invention);
B01B B01D C01B C25B C25C (Subclass/Invention)

International class (IPC 1-7): B01B B01D17/06 B01D53/22 B01D53/32 B01D53/34 B01D53/36 B01D53/86 B01D67/00 B01D69/00 B01D71/00 B01D71/02 B01J19/08 B01J20/28 B01J21/00 B01J23/10 B01J23/26 B01J23/56 B01J23/63 B01J23/76 B01J23/86 B01J35/00 B01J35/02 C01B13/02 C01B13/02 C01B13/14 C01B3/24 C01B3/36 C01B3/38 C01C3/02 C01C3/02 C01G49/00 C01G51/00 C01G51/00 C01G51/04 C01G53/00 C04B35/00 C04B35/01 C04B35/057 C04B35/26 C04B35/32 C04B35/495 C07B33/00 C07B35/04 C07B63/00 C07B63/02 C07C1/02 C07C11/00 C07C11/00 C07C27/00 C07C5/32 C25B1/00 C25B1/02 C25B11/03 C25B11/04 C25B11/06 C25B11/20 C25B13/00 C25B13/02 C25B13/04 C25B15/08 C25B3/00 C25B3/02 C25B5/00 C25B9/00 C25B9/10 C25C1/02 C25C1/10 C25C7/00 C25C7/02 C25C7/04 C25D17/00 C25D9/00 H01M4/86 H01M8/00 H01M8/02 H01M8/10 H01M8/12 H01M8/20 H01M8/22

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European class: B01D53/22M B01D53/32E B01D67/00M10 B01D67/00M11 B01D67/00M12 B01D67/00M22 B01D67/00M24 B01D67/00R10 B01D67/00R18 B01D69/12 B01D69/14B B01D69/14B12 B01D71/02 B01D71/02M B01D71/02P B01J12/00P B01J19/24P B01J35/00D B01J35/06B B01J8/00L4 C01B13/02D4B2 C01B13/02D6 C01B3/36 C01B3/38D C01C3/02D1B C01C3/02D1D2 C01C3/02D2F C01G37/00D C01G41/00 C01G45/00D C01G45/12C C01G45/12C10 C01G45/12C8 C01G45/12C8C C01G49/00C C01G49/00C10 C01G49/00C12 C01G49/00C4 C01G49/00C8 C01G49/00D C01G51/00D C01G51/40 C01G51/68 C01G53/00D C01G53/68 C04B35/01 C25B1/00 C25B13/00 C25B3/02 C25B5/00 H01M8/12 H01M8/12B H01M8/12E H01M8/12E2 L01D323/08 L01D323/10 L01D323/12 L01D325/04 L01D325/08 L01D325/12 L01D325/26 L01J208/00C18 L01J208/00C2B2B L01J208/00C2D L01J208/00C2D8 L01J208/00C2H2 L01J208/00C2H2B L01J208/00C6 L01J219/00B18 L01J219/00B2B2B L01J219/00B2B2B4 L01J219/00B2D8 L01J219/00B2H2 L01J219/00B2H2B L01J219/00B2L L01J219/00B6 M01B203/02D4 M01B203/10B8 M01B203/12B2D2 M01B203/12D M01B210/00D2 M01B210/00D4B2 M01B210/00W14 M01B210/00W20 M01B210/00W22 M01B210/00W24B M01B210/00W4 M01P2/32 M01P2/34 M01P2/52 M01P2/54 M01P4/03 M01P4/38 M01P4/61 M01P4/80 M01P4/84 M01P6/12 M01P6/40 M01P6/80 Y02E60/52B Y02E60/52D

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Abstract:
Source: US2003155254A Solid membranes comprising an intimate, gas-impervious, multi-phase mixture of an electronically-conductive material and an oxygen ion-conductive material and/or a mixed metal oxide of a perovskite structure are described. Electrochemical reactor components, such as reactor cells, and electrochemical reactors are also described for transporting oxygen from any oxygen-containing gas to any gas or mixture of gases that consume oxygen. The reactor cells generally comprise first and second zones separated by an element having a first surface capable of reducing oxygen to oxygen ions, a second surface capable of reacting oxygen ions with an oxygen-consuming gas, an electron-conductive path between the first and second surfaces and an oxygen ion-conductive path between the first and second surfaces. The element may further comprise (1) a porous substrate, (2) an electron-conductive metal, metal oxide or mixture thereof and/or (3) a catalyst. The reactor cell may further comprise a catalyst in the zone which comprises a passageway from an entrance end to an exit end of the element. Processes described which may be conducted with the disclosed reactor cells and reactors include, for example, the partial oxidation of methane to produce unsaturated compounds or synthesis gas, the partial oxidation of ethanes substitution of aromatic compounds, extraction of oxygen from oxygen-containing gases, including oxidized gases, ammoxidation of methane, etc. The extraction of oxygen from oxidized gases may be used for flue or exhaust gas cleanup.

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FIG. 1

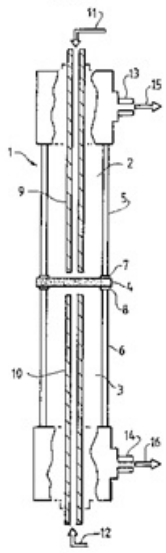


FIG. 2

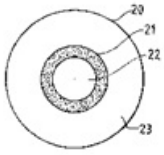
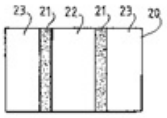


FIG. 3



106) Family number: 28620218 (US4798580A)

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Title: DISPOSABLE PERISTALTIC PUMP CASSETTE SYSTEM

Priority: CA19880565123 19880426 CA19892003184 19891003 US19870043120 19870427 US19910686901 19910417 US19880253801 19881005

Family:

Publication number	Publication date	Application number	Application date
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US5195960 A	19930323	US19910686901	19910417

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A61F9/00 A61F9/007 (Advanced/Non-invention);
A61F9/00 A61F9/007 A61M1/00 F04B43/12 (Core/Invention);
A61F9/00 (Core/Non-invention)

International class (IPC 1-7): A61B17/00 A61F9/00 A61F9/007 A61M1/00 A61M3/00 A61M7/00 A61M9/00 F04B43/08 F04B43/12

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Classification Explorer

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Forward Citations: WO9517603, WO9517602, WO9415658, WO9405346, WO9403729, WO9324082, WO9319791, WO9317729, WO9315777, WO9315777, WO9300941, WO9300941, WO9206720, WO9115149, WO17040833, WO14042817, WO12094348, WO12094348, WO08060913, WO08060913, WO06131609, WO06015301, WO05033512, WO05033511, WO04113726, WO04069310, WO03024509, WO0137894, WO0137894, WO0021589, USD809909, USD698019, USD672455, USD477869, USD476414, USD426882, US9895262, US9889239, US9877865, US9872947, US9861522, US9827356, US9799274, US9795729, US9795507, US9775964, US9775939, US9770543, US9757275, US9750638, US9744283, US9730833, US9717833, US9713660, US9700457, US9697334, US9693896, US9690905, US9675745,

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KR101387216, JP4167111, JP2013512760, JP2009539563, JP2009509633, JP2009153988, JP2007507637, JP2007507636, JP2003319964, EP2968718, EP2682603, EP2679255, EP2559446, EP2559446, EP2333341, EP1935383, EP1888140, EP1872810, EP1820967, EP1680601, EP1473005, EP1356835, EP1356834, EP1108891, EP0944404, EP0893603, EP0893603, EP0888788, EP0786260, EP0774266, EP0768899, EP0733375, EP0692266, EP0601313, EP0559602, EP0555625, EP0459113, DE4417189, DE19960668, DE102012105926, DE102012105919, DE102012105918, DE102012012525, DE102009058279, DE102006008325, CN104661613, CN102282372, AU703803, AU657390, AU2013257535, AU2003202520, AU2003202518,

Abstract:
Source: US4798580A A microsurgical irrigation/aspiration system is provided, including a controller having a pump roller head, actuators for occluding tubing, a suction sensor, and **apparatus** for mounting a pump cassette. The system cassette is suitable for mounting on the controller and has an opening with a pump tubing segment passing along an arcuate wall of the opening. When the cassette is mounted on the console, the roller head is engaged in the cassette opening and compresses the pump tubing segment against the arcuate wall. An infusion **line** passes through the cassette and is occludable by one of the actuators, and a vent **line** **connected** to the pump tubing segment is occludable by a second actuator. A suction sensing port on the cassette **couples** with the suction sensor in the controller.

PatBase - US4798580_A

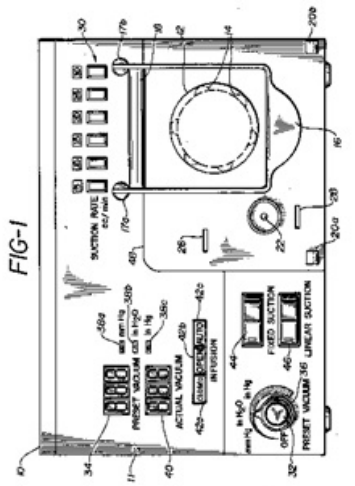


FIG-1

107) Family number: 2941077 (US4821558A)

Title: Ultrasonic detector

Priority: AU19880015316 19880429 CA19880565512 19880429 US19890307489 19890306 US19890307489 19890307 US19890448806 19891211 US19870045951 19870501 US19910753009 19910823

Family:

Publication number	Publication date	Application number	Application date
AU198815316 A1	19881103	AU19880015316	19880429
AU199067928 A1	19910307	AU19900067928	19901210
AU607213 B2	19910228	AU19880015316	19880429
AU627094 B2	19920813	AU19900067928	19901210
CA1322400 A1	19930921	CA19880565512	19880429
DE3882807 D1	19930909	DE19883882807	19880425
DE3882807 T2	19931111	DE19883882807T	19880425
DK235788 A	19881102	DK19880002357	19880428
DK235788 A0	19880428	DK19880002357	19880428
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EP0293591 A3	19890201	EP19880106574	19880425
EP0293591 B1	19930804	EP19880106574	19880425
EP0495538 A2	19920722	EP19920106499	19880425
EP0495538 A3	19921021	EP19920106499	19880425
EP0496436 A2	19920729	EP19920106502	19880425
EP0496436 A3	19920930	EP19920106502	19880425
ES2043711 T3	19940101	ES19880106574T	19880425
JP1020469 A2	19890124	JP19880109845	19880502
JP64020469 A2	19890124	JP19880109845	19880502
US4821558 A	19890418	US19870045951	19870501
US4944191 A	19900731	US19890307489	19890307
US5191795 A	19930309	US19910753009	19910823

Probable Assignee: HOSPIRA INC

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

Assignee(s): ABBOTT LABORATORIES ; ABBOTT LABORATORIES ABBOTT PARK ILL ; ABBOTT LABORATORIES ABBOTT PARK ILL US ; FELLINGHAM GEORGE ; HOSPIRA INC ; LAWLESS MICHAEL ; PASTRONE JOHN

Inventor(s):(std)**:** FELLINGHAM GEORGE ; PASTRONE JOHN ; LAWLESS MICHAEL ; FELLINGHAM GEORGE H ; MAIKERU ROORESU ; JIYOOJI EICHI FUERINGAMU ; JIYON PASUTOROONE ; KOLL LANCE B ; HUGHES TIMOTHY J

Inventor(s): FELLINGHAM GEORGE H SAN JOSE CALIFORNIA 95131 US ; GEORGE H FELLINGHAM ; JOHN PASTRONE ; LANCE B KOLL ; LAWLESS MICHAEL BOULDER CREEK CALIFORNIA 95006 US ; MICHAEL LAWLESS ; PASTRONE JOHN LOS GATOS CALIFORNIA 95030 US ; TIMOTHY J HUGHES

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; GOUDREAU GAGE DUBUC

Designated states: BE CH DE ES FR GB GR IT LI NL SE

International class (IPC 8-9): A61B8/06 A61M5/14 A61M5/36 G01N29/02 G01N29/032 G01N29/036 G01N29/22 G01N29/24 G01N29/28 G01N29/34 G01N29/46 G01S15/88 (Advanced/Invention);
A61B8/06 (Advanced/Non-invention);
A61B8/06 A61M5/14 A61M5/36 G01N29/02 G01N29/22 G01N29/24 G01N29/28 G01N29/34 G01N29/44 G01S15/00 (Core/Invention)

International class (IPC 1-7): A61B8/00 A61B8/06 A61M5/14 A61M5/36 G01F1/66 G01N29/00 G01N29/02 G01N29/16 G01N7/00 G01N9/24 G01S15/88 G08B21/00 H01L41/04

CPC: G01N29/223 A61M5/365 G01N29/032 G01N29/036 G01N29/24 G01N29/28 G01N29/348 G01N29/46 G01N2291/02433 G01N2291/102 G01N2291/02836

European class: A61M5/36B G01N29/032 G01N29/036 G01N29/22L G01N29/24 G01N29/28 G01N29/34F G01N29/46 S01N291/024E S01N291/028F S01N291/102 S01N291/12 S01N291/127

US class: 340/621 73/19 73/19.03 73/19.1 73/599 73/61.75 73/61.79 73/61R

Classification Explorer

Cited documents: US4758228 A, US4651555 A, US4642098 A, US4628285 A, US4607520 A, US4554477 A, US4501531 A, US4487601 A, US4432231 A, US4430596 A, US4418565 A, US4355238 A, US4354502 A, US4341116 A, US4333016 A, US4275363 A, US4265125 A, US4131816 A, US4126132 A, US4112773 A, US4014206 A, US3974681 A, US3908441 A, US3898637 A, US3648694 A, US2472179 A, JPS61109554, JPS5456494, JPS5313586, JP61109554 A2, JP56152652 B4, JP54056494 A2, JP53013586 A2, GB2012373 A1, EP0053453 A1, DE3141576 A1, AU6188986 A1, AU574583 B2,

Forward Citations: WO9964093, WO9737706, WO9621151, WO9604630, WO09128864, WO08051998, WO08051998, WO04032702, WO0046583, USD476414, US9289550, US8910370, US8816866, US8739601, US8646309, US8539812, US8361021, US8303613, US8225639, US8120500, US8083503, US8082112, US8062008, US8033157, US7987722, US7981082, US7934912, US7818992, US7805978, US7726174, US7141037, US7141037, US7114390, US6616633, US6497140, US6489896, US6457346, US6231320, US6223588, US6142008, US6085574, US6068612, US5982297, US5974890, US5843035, US5824881, US5777550, US5658133, US5625140, US5591913, US5583280, US5578994, US5575310, US5560247, US5533389, US5528923, US5526844, US5496273, US5470604, US5454255, US5438230, US5421190, US5394732, US5349852, US5176631, US5126616, US5123275, US5064412, US5062299, US5053747, US5026348, US5000663, US2015278737, US2011238013, US2010306986, US2010212407, US2010141460, US2009293588, US2009149801, US2009087327, US2009087326, US2009087325, US2009053071, US2009049919, US2008208484, US2008134750, US2008098798, US2007191990, US2004173021, GB2312046, GB2312046, EP3070466, EP1572000, EP0899564, EP0862736, EP0837709, EP0814854, EP0801742, EP0661536, EP0643301, EP0524605, DE19642072, DE19642072, DE102015103938, CN102879463, AU634317,

Abstract:
Source: US4821558A An ultrasonic detector for detecting air in a **fluid**. A **fluid** pumping cassette includes an elastomeric member that defines three sides of a **fluid** passageway, a base of the cassette defining the other side. Resilient lobes on the elastomeric member extend outwardly in opposite directions on each side of the passageway, directly contacting an ultrasonic sound generator on one side and a piezoelectric sound receiver on the opposite side, the direct contact enhancing transmission of an ultrasound signal through the elastomeric member to facilitate detection of an air bubble in the **fluid** passage.

PatBase - US4821558_A

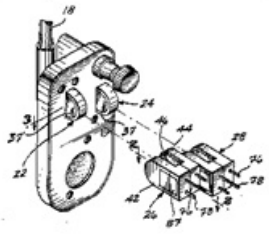


Fig. 1.

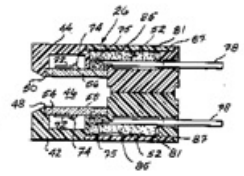


Fig. 2.

108) Family number: 9032913 (US4818186A)

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Title: Drive mechanism for disposable **fluid** infusion pumping cassette

Priority:
CA19880565509 19880429 CA19880616194 19880429 CA19885655099 19880429
CA19910616194 19911009 CA19910616195 19911009 CA19880616195 19880429
US19870045958 19870501 US19870045924 19870501 US19870045959 19870501
JP19880109844 19880502

Family:

Publication number	Publication date	Application number	Application date
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AU618258 B2	19911219	AU19880015318	19880429
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EP0293592 B1	19921125	EP19880106575	19880425
ES2036616 T3	19930601	ES19880106575T	19880425
GR3006909 T3	19930630	GR19930400156T	19930128
JP1005558 A2	19890110	JP19880109844	19880502
JP10071202 A2	19980317	JP19970227959	19970825
JP2763005 B2	19980611	JP19880109844	19880502
JP2769460 B2	19980625	JP19970227959	19970825
JP64005558 A2	19890110	JP19880109844	19880502
US4818186 A	19890404	US19870045959	19870501
US4842584 A	19890627	US19870045958	19870501
US4927411 A	19900522	US19870045924	19870501

Probable Assignee: HOSPIRA INC

Assignee(s):(std)**:** ABBOTT LAB ; PASTRONE JOHN

Assignee(s): OXIMETRIX INC ; HOSPIRA INC ; JIMISON WALTER L ; LAENEN EDWARD ; ABBOTT LABORATORIES ; ABBOTT LABORATORIES A CORP OF ILLINOIS ; ABBOTT LABORATORIES ABBOTT PARK ILL US ; ABBOTT LABORATORIES NORTH CHICAGO IL ; ABBOTT LABORATORIES NORTH CHICAGO LAKE ILLINOIS A ; ABOTSUTO LAB ; CHAMNESS LELAND D ; FELLINGHAM GEORGE

Inventor(s):(std)**:** GEORGE FERRINGAM ; JIMISOM WALKTER L ; JIMISON WALTER L ; JIYON PASUTOROONE ; JIYOOJI FUERINGAMU ; CHAMNESS LELAND D ; EDOWAADO REENEN ; FELLINGHAM GEORGE ; FELLINGHAM GEORGE H ; LAENEN EDWARD ; PASTRONE JOHN ; REERANDO D SHIYAMUNESU ; REERANDO DEI SHIYAMUNESU ; UORUTAA ERU JIMISON ; WALTER L JIMISON

Inventor(s): PASTRONE JOHN LOS GATOS CALIFORNIA 95030 US ; LAENEN EDWARD PALO ALTO CALIFORNIA 94303 US ; JIMISON WALTER L PALO ALTO CALIFORNIA 94301 US ; FELLINGHAM GEORGE SAN JOSE CALIFORNIA 95131 US ; CHAMNESS LELAND D MOUNTAIN VIEW CALIFORNIA 94040 U ; REERANDO DEI SHAMUNESU ; LELAND D CHAMNESS ; GEORGE FELLINGHAM ; EDWARD LAENEN ; JOHN PASTRONE ; JON PASUTOROONE ; JOOJI FUERINGAMU

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; GOUDREAU GAGE DUBUC; OMORI TADATAKA; AOYAMA TAMOTSU

Designated states: BE CH DE ES FR GB GR IT LI NL SE

International class (IPC 8-9): A61M1/00 A61M5/14 A61M5/142 A61M5/36 F04B43/02 F04B49/03 (Advanced/Invention);
A61M1/00 F04B43/02 (Advanced/Non-invention);
A61M1/00 A61M5/142 A61M5/36 F04B43/02 F04B49/02 (Core/Invention)

International class (IPC 1-7): A61M1/00 A61M31/00 A61M5/14 A61M5/142 F04B43/02 F04B43/04 F04B49/06 F04B49/10 F04B7/00 F16K7/12

CPC: A61M5/14224 A61M2205/12 A61M2205/128 F04B49/03 F04B2205/503 A61M5/365

European class: A61M5/142G4 A61M5/36B F04B49/03 K61M205/12 K61M205/12V R04B205/503

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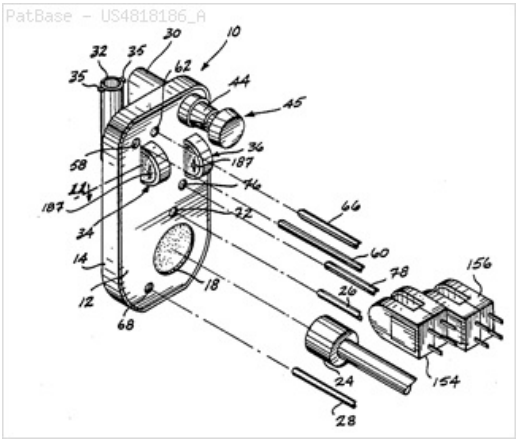
Classification Explorer

Cited documents: US4714463 A, US4696671 A, US4657490 A, US4601702 A, US4474309 A, US4470758 A, US4468222 A, US4457753 A, US4453932 A, US4453931 A, US4437812 A, US4410322 A, US4398908 A, US4381005 A, US4336800 A, US4321014 A, US4303376 A, US4273121 A, US4236881 A, US4199307 A, US4181245 A, US4165208 A, US4142524 A, US3994294 A, US3620650 A, US2952219 A, US2562552 A, US2308974 A, US2017974 A, GB2107800 A1, FR2346762 A1, EP0238227 A2, EP0223971 A1, DE2533315 A1, DE2142702 B,

Forward Citations: WO9964091, WO9964091, WO9806446, WO9640341, WO9640328, WO9640328, WO9608649, WO9531247, WO9531233, WO9524229, WO9524229, WO9523627, WO9416226, WO9413533, WO9413355, WO9312825, WO9309828, WO17118540, WO17118536, WO16190904, WO16089772, WO14099178, WO09106353, WO09038834, WO08130715, WO08130715, WO04035116, WO04035115, WO0143798, WO0131216, USD476414, US9895262, US9877865, US9872974, US9867921, US9861732, US9855110, US9839776, US9839775, US9839744, US9827359, US9795729, US9795507, US9775939, US9757275, US9744283, US9740829, US9726167, US9724458, US9714650, US9713660, US9700660, US9700457, US9697334, US9694125, US9690905, US9687599, US9677554, US9675745, US9675744, US9674811, US9657902, US9649418, US9624915, US9623168, US9610392, US9603985, US9597442, US9593679, US9582645, US9581152, US9579429, US9566188, US9561323, US9555181, US9555179, US9539379, US9535021, US9522221, US9517295, US9514283, US9511187, US9511180, US9504778, US9500188, US9492317, US9474842, US9468713, US9457158, US9421314, US9408968, US9408966, US9404490, US9386922, US9366781, US9358332, US9333290, US9302037, US9295765, US9283312, US9272082, US9271806, US9248225, US9186449, US9180240, US9149568, US9133835, US9125983, US9115709, US9115708, US9101709, US9089636, US9078971, US9072828, US9028691, US9028440, US9022969, US9011114, US9005157, US8998836, US8992462, US8992189, US8992075, US8986254, US8985133, US8968232, US8965707, US8961461, US8961444, US8954336, US8952794, US8950241, US8932032, US8926835, US8926294, US8900174, US8888470, US8870549, US8858526, US8851866,

US8840581, US8821443, US8784359, US8777590, US8771508, US8760637, US8740837, US8740836, US8721884, US8721883, US8721879, US8720913, US8715235, US8715220, US8708950, US8692167, US8684971, US8679054, US8668665, US8652086, US8562834, US8545698, US8529496, US8506522, US8504179, US8499780, US8491184, US8465446, US8459292, US8435408, US8435206, US8425780, US8425471, US8409441, US8403880, US8398582, US8393690, US8385731, US8377293, US8376999, US8366921, US8366655, US8366316, US8361053, US8361021, US8357298, US8348879, US8343100, US8328758, US8328537, US8323231, US8317492, US8313308, US8292594, US8273049, US8250483, US8246826, US8241409, US8206339, US8206338, US8202243, US8197431, US8192401, US8180206, US8172789, US8158102, US8149131, US8142653, US8133197, US8105265, US8075546, US8075526, US8070726, US8070709, US8066671, US8042563, US8006570, US7983540, US7981082, US7967022, US7935074, US7927313, US7927302, US7918654, US7914499, US7909795, US7905853, US7896017, US7853362, US7815595, US7803217, US7789849, US7776006, US7775780, US7758539, US7720362, US7717685, US7712802, US7662139, US7654976, US7648627, US7632080, US7632078, US7530968, US7500962, US7461968, US7452190, US7407489, US7402154, US7393189, US7360999, US7354190, US7347836, US7284965, US7241115, US7237691, US7232430, US7214210, US7175606, US7172572, US7153286, US7104763, US7087036, US7070578, US7007824, US6953323, US6942636, US6939111, US6905314, US6814547, US6769231, US6764761, US6709417, US6635033, US6620434, US6497680, US6464667, US6436072, US6375577, US6364857, US6285155, US6251432, US6216573, US6165154, US6123686, US6117115, US6110153, US6080132, US6077246, US6077055, US5935105, US5935099, US5853386, US5816779, US5772637, US5755689, US5755688, US5755683, US5718569, US5658133, US5647854, US5630710, US5628908, US5628731, US5626563, US5609572, US5603613, US5601420, US5586868, US5584320, US5575632, US5575310, US5568912, US5563347, US5560247, US5554013, US5551850, US5533973, US5533389, US5531734, US5531698, US5531697, US5531682, US5526844, US5496273, US5482446, US5482438, US5476368, US5474683, US5464391, US5464388, US5462256, US5445621, US5439355, US5438510, US5437635, US5431634, US5431626, US5429485, US5421823, US5404748, US5378126, US5350357, US5349852, US5344292, US5324422, US5313992, US5213483, US5205819, US5195986, US5190527, US5108373, US5098262, US5082014, US5062774, US5057081, US5055001, US5039279, US5006050, US5000664, US5000663, US2016346484, US2014276421, US2014178215, US2014121601, US2012041360, US2011238013, US2011218600, US2011166507, US2011163033, US2011144569, US2011137287, US2011125085, US2011106003, US2011106002, US2011098635, US2011092894, US2011092893, US2011040244, US2011028892, US2011015610, US2010300293, US2010249693, US2010241062, US2010222737, US2010217191, US2010185149, US2010130934, US2009281484, US2009246035, US2009240232, US2009198174, US2009112151, US2009099498, US2009053071, US2009012461, US2009012457, US2008273996, US2008269679, US2008269676, US2008269663, US2008267599, US2008253912, US2008208103, US2008200878, US2008125698, US2008097284, US2008086088, US2008077092, US2008077074, US2008058712, US2008058697, US2008056915, US2008033346, US2008015515, US2008015493, US2007297924, US2007288176, US2007286755, US2007269321, US2007252395, US2007244427, US2007213651, US2007191990, US2007172368, US2007166180, US2007149913, US2007112297, US2007098578, US2007095143, US2007031268, US2006275142, US2006132247, US2006113249, US2005267402, US2005238497, US2005235733, US2005230292, US2005214129, US2005186098, US2005147508, US2005096583, US2005095576, US2005095154, US2005095153, US2005095152, US2005095141, US2005094485, US2005094483, US2004247445, US2004234380, US2004208756, US2004176724, US2004144800, US2004120825, US2004094573, US2004010223, US2003220609, US2003220608, US2003220607, US2003220605, US2003217962, US2003217957, US2003202894, US2003055375, US2003017066, US2003017056, US2002183693, US2002004645, TWI365739, TWI340635, TWI337538, JP6045372, JP5727516, JP5342566, JP4738171, JP4673535, JP2017064525, JP2015154947, JP2014144434, JP2013517904, JP2011512918, JP2009077870, JP2008111856, JP2006517423, JP2006514856, JP2003516820, GB2378734, FR2699409, EP2767299, EP2741800, EP1843141, EP1611909, EP1556105, EP1556104, EP1364194, EP1334738, EP1224400, EP0833675, EP0830167, EP0781379, EP0781376, EP0752897, EP0751794, EP0697898, EP0621791, EP0447985, EP0446897, EP0446897, EP0432425, EP0416912, EP0406562, CN101970029, AU702480, AU623782,

Abstract:
Source: US4818186A A driver for use in an infusion pumping cassette having an elongated valve actuator which operates a valve controlling the flow of **fluid** through the cassette, a bracket having a first arm pivotally secured to one end of the valve actuator and a second arm, a cam driveably engaging the second arm, a motor which drives the cam and a positioner which monitors the rotational position of the cam.



109) Family number: 2851178 (US4909287A)

Title: **Fluid injection** system

Priority: CA19880567218 19880519 US19870052698 19870520 US19880179786 19880411 US19880180423 19880411

Family:

Publication number	Publication date	Application number	Application date
AR242904 A1	19930630	AR19880310903	19880519
AT113373 E	19941115	AT19880108055T	19880519
AU198816430 A1	19881124	AU19880016430	19880519
AU621296 B2	19920312	AU19880016430	19880519
BRPI8802491 A	19881220	BR1988PI02491	19880520
CA1305014 A1	19920714	CA19880567218	19880519
DE3851909 D1	19941201	DE19883851909	19880519
DE3851909 T2	19950608	DE19883851909T	19880519
EP0291987 A2	19881123	EP19880108055	19880519
EP0291987 A3	19911002	EP19880108055	19880519
EP0291987 B1	19941026	EP19880108055	19880519
ES2061553 T3	19941216	ES19880108055T	19880519
IE64264 B	19950726	IE19880001507	19880519
IE881507 L	19881120	IE19880001507	19880519
IN171302 A	19920912	IN1988CA00352	19880502
JP1076858 A2	19890322	JP19880120777	19880519
JP1767914 C3	19930611	JP19880120777	19880519
JP4055706 B4	19920904	JP19880120777	19880519
JP64076858 A2	19890322	JP19880120777	19880519
KR19880013578 A	19881221	KR19880005859	19880519
KR960015180 B1	19961101	KR19880005859	19880519
NZ224540 A	19900327	NZ19880224540	19880506
US4909287 A	19900320	US19880179786	19880411
US4938262 A	19900703	US19880180423	19880411
US4941518 A	19900717	US19870052698	19870520
ZA8803567 A	19900131	ZA19880003567	19880519

Probable Assignee: JOHNSON AND JOHNSON MEDICAL INC A NJ CORP

Assignee(s):(std)**:** CHICOPEE ; JOHNSON AND JOHNSON ; JOHNSON AND JOHNSON MEDICAL ; JOHNSON AND JOHNSON MEDICAL INC ; SURGIKOS INC

Assignee(s): JOHNSON AND JOHNSON MEDICAL INC NEW BRUNSWICK N J US ; SPENCER ROBERT M ; WILLIAMS HAROLD R ; JOHNSON AND JOHNSON MEDICAL INC A NJ CORP ; JOHNSON AND JOHNSON MEDICAL INC NEW BRUNSWICK N J

Inventor(s):(std)**:** HAROLD R WILLIAMS ; ROBERT M SPENCER ; SPENCER ROBERT M ; SPENCER ROBERT MCCOY ; WILLIAMS HAROLD R ; WILLIAMS HAROLD ROBERT ; ROBAATO EMU SUPENSAA ; HARORUDO AARU UIRIAMUSU

Inventor(s): WILLIAMS HAROLD R CAPISTRANO BEACH CA 92624 US ; SPENCER ROBERT M SAN JUAN CAPISTRANO CA 92675 US

Agent(s): GRIFFITH HACK; OGILVY RENAULT LLP SENCRL SRL

Designated states: AT BE CH DE ES FR GB IT LI NL

International class (IPC 8-9): A61L2/00 A61L2/18 A61L2/24 B01J4/02 G01F11/08 (Advanced/Invention);
A61L2/00 A61L2/18 B01J4/02 (Advanced/Non-invention);
A61L2/00 A61L2/18 B01J4/02 G01F11/02 (Core/Invention)

International class (IPC 1-7): A61L2/00 A61L2/14 A61L2/16 A61L2/18 A61L2/20 A61L2/24 A61L2/26 A61L9/14 B01J4/02 B65B3/04 B67C9/00 B67D G01F11/00 G01F11/08 G01F11/8

CPC: A61L2/18 A61L2/24 G01F11/086

European class: A61L2/24 G01F11/08E

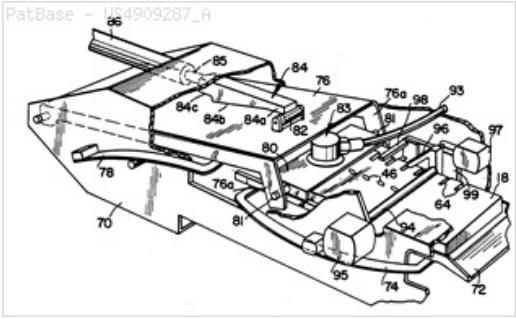
US class: 141/1 141/114 141/330 141/5 141/7 141/8 422/28 422/32

Classification Explorer

Cited documents: US4697414 A, US4673803 A, US4648393 A, US4622085 A, US4432755 A, US4385714 A, US4111304 A, US3965946 A, US3945539 A, US3827467 A, US3788369 A, US3621892 A, US3490863 A, US3209676 A, US3206080 A, US2633842 A, US2475317 A, JPS5969077, JPS4989953, JP59069077 A2, JP49089953 A2, GB939814 A,

Forward Citations: WO0055070, US9895262, US9877865, US9795507, US9757275, US9700457, US9566188, US9492317, US9386922, US9295765, US8440139, US8303574, US7993609, US7811530, US7602284, US7575716, US7452504, US7309014, US7300637, US7273594, US7101512, US7074374, US6699434, US6561234, US6530399, US6412340, US6390155, US6354344, US6279622, US6106772, US5908056, US5887716, US5882611, US5794669, US5540265, US5527507, US5417258, US5284189, US5116575, US2015276341, US2014170020, US2010249693, US2010163448, US2010030111, US2009035189, US2008159920, US2006233677, US2006131423, US2006093539, US2005265889, US2005263422, US2005263421, US2005197737, US2005196313, US2005194441, US2004062692, US2003072701, US2002076357, KR100814273, KR100812557, KR100709021, JP2011212501, JP2005246064, EP2269660, EP2266631, EP1652537, EP1600174, EP1600173, EP1570866, EP1570864, EP1121942, EP0882458, EP0882457,

Abstract:
Source: US4909287A A cassette containing a group of sealed cells is used as a means for delivering doses of **fluid** to be **injected** into a sterilizing chamber. After the cassette is automatically positioned over a piercing mechanism, the cassette is moved downwardly so that a cell is pierced. **Fluid** is then forced out of the cell by pneumatic pressure into an **injector** valve, which opens in a manner which does not adversely affect a vacuum within the chamber.


PatBase - US4909287_A
86
85
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98
93
84c
84b
84a
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76a
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81'
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72

110) Family number: 2851206 (US4817800A)

Title: **Fluid** **injection** system cassette and **fluid** packaging methods

Priority: CA19880567139 19880518 NZ19880224541 19880506 US19880282099 19881208 US19870052460 19870520

Family:

Publication number	Publication date	Application number	Application date
AT117557 E	19950215	AT19880108056T	19880519
AU198816431 A1	19881124	AU19880016431	19880519
AU620547 B2	19920220	AU19880016431	19880519
BRPI8802483 A	19881220	BR1988PI02483	19880520
CA1308701 A1	19921013	CA19880567139	19880518
DE3852844 D1	19950309	DE19883852844	19880519
DE3852844 T2	19950518	DE19883852844T	19880519
EP0292880 A2	19881130	EP19880108056	19880519
EP0292880 A3	19911002	EP19880108056	19880519
EP0292880 B1	19950125	EP19880108056	19880519
ES2066771 T3	19950316	ES19880108056T	19880519
IE66510 B	19960110	IE19880001508	19880519
IE881508 L	19881120	IE19880001508	19880519
IN171303 A	19920912	IN1988CA00353	19880502
JP1085127 A2	19890330	JP19880120778	19880519
JP2004204 C3	19951220	JP19880120778	19880519
JP64085127 A2	19890330	JP19880120778	19880519
JP7022693 B4	19950315	JP19880120778	19880519
KR19880013614 A	19881221	KR19880005857	19880519
KR960015181 B1	19961101	KR19880005857	19880519
NZ224541 A	19910625	NZ19880224541	19880506
NZ232064 A	19910625	NZ19880232064	19880506
US4817800 A	19890404	US19870052460	19870520
US4899519 A	19900213	US19880282099	19881208
ZA8803569 A	19900131	ZA19880003569	19880519

Probable Assignee: JOHNSON AND JOHNSON MEDICAL INC

Assignee(s):(std)**:** CHICOPEE ; JOHNSON AND JOHNSON ; JOHNSON AND JOHNSON MEDICAL ; SURGIKOS INC

Assignee(s): WILLIAMS HAROLD R ; SPENCER ROBERT M ; JOHNSON AND JOHNSON MEDICAL INC ; JOHNSON AND JOHNSON MEDICAL INC NEW BRUNSWICK N J ; JOHNSON AND JOHNSON MEDICAL INC NEW BRUNSWICK N J US

Inventor(s):(std)**:** HAROLD R WILLIAMS ; HARORUDO AARU UIRIAMUSU ; ROBAATO EMU SUPENSAA ; ROBERT M SPENCER ; SPENCER ROBERT M ; SPENCER ROBERT MCCOY ; WILLIAMS HAROLD R ; WILLIAMS HAROLD ROBERT

Inventor(s): WILLIAMS HAROLD R CAPISTRANO BEACH CA 92624 US ; SPENCER ROBERT M SAN JUAN CAPISTRANO CA 92675 US

Agent(s): GRIFFITH HACK; OGILVY RENAULT LLP SENCRL SRL

Designated states: AT BE CH DE ES FR GB IT LI NL

International class (IPC 8-9): A61L2/14 A61L2/24 A61L2/26 B01J4/02 B65B9/04 B65D37/00 B65D83/00 B65D83/14 G01F11/08 (Advanced/Invention);
A61L2/26 B01J4/02 (Advanced/Non-invention);
A61L2/00 A61L2/02 A61L2/26 B01J4/02 B65B9/00 B65D37/00 B65D83/00 B65D83/14 G01F11/02 (Core/Invention)

International class (IPC 1-7): A61L2/00 A61L2/14 A61L2/16 A61L2/18 A61L2/24 A61L9/00 B01J4/02 B05B1/00 B65B35/28 B65B61/18 B65B9/04 B65D37/00 B65D83/00 B65D83/14 B67D G01F11/00 G01F11/08 G01F11/8

CPC: A61L2/24 A61L2/26 G01F11/086

European class: A61L2/24 A61L2/26 G01F11/08E

US class: 128/203.15 141/114 206/484 206/485 222/82 53/412 53/449 53/454

Classification Explorer

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Forward Citations: WO9846279, USD457248, US8876771, US8658092, US8440139, US8425133, US8210839, US8080217, US7993609, US7811530, US7807100, US7670550, US7602284, US7575716, US7569180, US7452504, US7309014, US7300637, US7273594, US7267806, US7252800, US7101512, US7074374, US7008592, US6969487, US6852279, US6706243, US6699434, US6698425, US6691704, US6656426, US6627150, US6530399, US6412340, US6390155, US6343425, US6325972, US6295793, US6279622, US6267242, US5887716, US5882611, US5660169, US5527507, US2014170020, US2012184927, US2012118428, US2010163448, US2009324445, US2009035189, US2008159920, US2006233677, US2006159509, US2006131423, US2006093539, US2006078459, US2005265889, US2005263422, US2005263421, US2005244297, US2005197737, US2005196313, US2005194441, US2005035475, US2005025666, US2004220537, US2004170527, US2004126281, US2004062692, US2004033161, US2004001774, US2003124026, US2003072701, US2003035754, US2003034033, US2002076357, KR101205808, KR100814273, KR100812557, JP2011212501, JP2006158958, JP2005334655, EP2269660, EP1652537, EP1600174, EP1600173, EP1600173, EP1570866, EP1570864, EP1308173, EP1122510, EP1121942, DE102014102598, CN101843912, AU2005202039,

Abstract:
Source: US4817800A A cassette containing a group of sealed cells is used for delivering doses of **fluid** to be **injected** into a sterilizing chamber. After the cassette is automatically positioned over a piercing mechanism, the cassette is moved downwardly so that a cell is pierced. **Fluid** is then forced out of the cell by pneumatic pressure into an **injector** valve, which opens in a manner which does not adversely affect a vacuum within the chamber.

PatBase - US4817800_A

FIG. 1

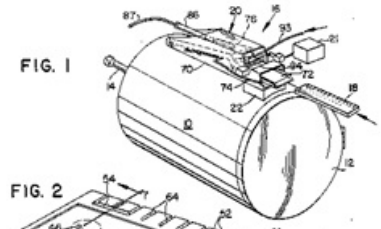


FIG. 2

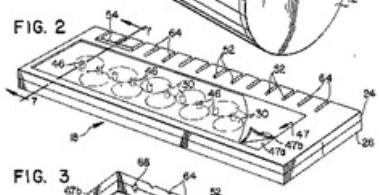


FIG. 3

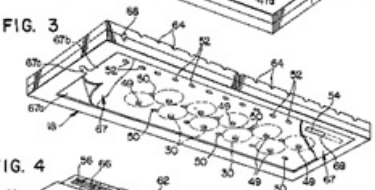
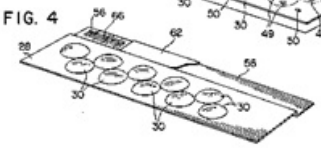


FIG. 4



111) Family number: 31595686 (US4913196A)

Title: **Fluid** **injection** system pumping methods

Priority:
AU19880016429 19880519 CA19880567140 19880518 CA19880616500 19880518
CA19885671400 19880518 CA19920616500 19920911 CA19920616501 19920911
IN1992CA00391 19920602 IN1988CA00355 19880502 CA19880616501 19880518
US19870052620 19870520

Family:

Publication number	Publication date	Application number	Application date
AT125038 E	19950715	AT19880108063T	19880519
AU198816429 A1	19881124	AU19880016429	19880519
AU199065773 A1	19910124	AU19900065773	19901102
AU199065774 A1	19910117	AU19900065774	19901102
AU199172078 A1	19910530	AU19910072078	19910304
AU614964 B2	19910919	AU19880016429	19880519
AU635618 B2	19930325	AU19910072078	19910304
AU637645 B2	19930603	AU19900065773	19901102
AU639727 B2	19930805	AU19900065774	19901102
BRPI8802481 A	19881220	BR1988PI02481	19880520
CA1324734 A1	19931130	CA19880616500	19880518
CA1324734 A2	19931130	CA19920616500	19920911
CA1324735 A1	19931130	CA19880567140	19880518
CA1336246 A1	19950711	CA19920616501	19920911
CA1336246 A2	19950711	CA19880616501	19880518
DE3854138 D1	19950817	DE19883854138	19880519
DE3854138 T2	19960222	DE19883854138T	19880519
EP0291990 A2	19881123	EP19880108063	19880519
EP0291990 A3	19911002	EP19880108063	19880519
EP0291990 B1	19950712	EP19880108063	19880519
ES2074987 T3	19951001	ES19880108063T	19880519
IN172161 A	19930424	IN1988CA00355	19880502
IN173897 A	19940806	IN1992CA00391	19920602
JP1076859 A2	19890322	JP19880120779	19880519
JP1773942 C3	19930714	JP19880120779	19880519
JP4059908 B4	19920924	JP19880120779	19880519
JP64076859 A2	19890322	JP19880120779	19880519
KR19880013615 A	19881221	KR19880005858	19880519
KR960015182 B1	19961101	KR19880005858	19880519
NZ224542 A	19900926	NZ19880224542	19880506
US4913196 A	19900403	US19870052620	19870520
ZA8803568 A	19900131	ZA19880003568	19880519

Probable Assignee: JOHNSON AND JOHNSON MEDICAL INC

Assignee(s):(std)**:** JOHNSON AND JOHNSON ; JOHNSON AND JOHNSON MEDICAL ; JOHNSON AND JOHNSON MEDICAL INC ; M S JOHNSON AND JOHNSON MEDICAL ; SURGIKOS INC

Assignee(s): M S JOHNSON AND JOHNSON MEDICAL INC ; WILLIAMS HAROLD R ; SPENCER ROBERT M ; JOHNSON AND JOHNSON MEDICAL INC NEW BRUNSWICK N J ; JOHNSON AND JOHNSON MEDICAL INC NEW BRUNSWICK N J US

Inventor(s):(std)**:** HAROLD R WILLIAMS ; HARORUDO AAMU UIRIAMUSU ; ROBAATO EMU SUPENSAA ; ROBERT M SPENCER ; SPENCER ROBERT M ; SPENCER ROBERT MCCOY ; SPENCER ROBERT MCLOY ; WILLIAMS HAROLD R ; WILLIAMS HAROLD ROBERT

Inventor(s): WILLIAMS HAROLD R CAPISTRANO BEACH CA 92624 US ; SPENCER ROBERT M SAN JUAN CAPISTRANO CA 92675 US

Agent(s): GRIFFITH HACK; OGILVY RENAULT LLP SENCRL SRL

Designated states: AT BE CH DE ES FR GB IT LI NL

International class (IPC 8-9): A61L2/00 A61L2/24 A61L2/26 A61M1/00 B01J4/02 B65B3/04 F02M39/00 F04B23/00 G01F11/08 (Advanced/Invention);
A61L2/00 A61L2/26 B01J4/02 (Advanced/Non-invention);
A61L2/00 A61L2/26 A61M1/00 B01J4/02 B65B3/04 F02M39/00 G01F11/02 (Core/Invention)

International class (IPC 1-7): A61L2/00 A61L2/16 A61L2/20 A61L2/24 A61L2/26 A61M1/00 B01J4/02 B05B1/00 B65B3/04 B65D83/00 B67D5/30 B67D5/54 F02M39/00 F04B23/00 G01F11/8

CPC: A61L2/24 G01F11/086

European class: A61L2/24 G01F11/08E

US class: 141/1 141/329 222/386.5 222/82

Classification Explorer

Cited documents: US4697414 A, US4385714 A, US4371114 A, US4235332 A, US4212373 A, US4111304 A, US3945539 A, US3827599 A, US3788369 A, US3640277 A, US3490863 A, US2475317 A, JPS5969077, JP59069077 A2, JP49089953 U1, JP49089953 U, GB939814 A, EP0221895 A1, AU589746 B2, AU2140377 A1, AU2140277 A1,

Forward Citations: US8440139, US7993609, US7811530, US7602284, US7575716, US7452504, US7309014, US7300637, US7273594, US7101512, US7074374, US6699434, US6561234, US6530399, US6412340, US6390155, US6354344, US6279622, US6106772, US5911250, US5887716, US5882611, US5527507, US5394907, US2014170020, US2010163448, US2009035189, US2008159920, US2006233677, US2006131423, US2006093539, US2005265889, US2005263422, US2005263421, US2005197737, US2005196313, US2005194441, US2004062692, US2003072701, US2002076357, TWI359095, JP5696740, JP2014133081, JP2005334655, JP2005296632, EP2269660, EP1652537, EP1600174, EP1600173, EP1570866, EP1570864,

Abstract:
Source: US4913196A A cassette containing a group of sealed cells is used for delivering doses of **fluid** to be **injected** into a sterilizing chamber. After the cassette is automatically positioned over a piercing mechanism, the cassette is moved downwardly so that a cell is pierced. **Fluid** is then forced out of the cell by pneumatic pressure into an **injector** valve, which opens in a manner which does not adversely affect a vacuum within the chamber.

PatBase - US4913196_A

FIG. 1

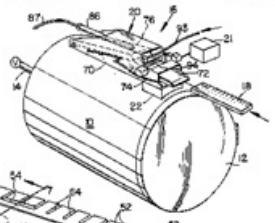


FIG. 2

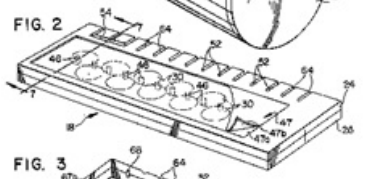


FIG. 3

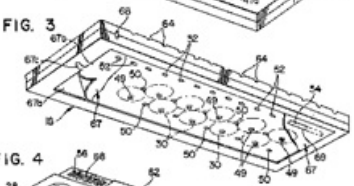
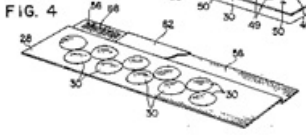


FIG. 4



112) Family number: 30040308 (US4891249A)

Title: METHOD OF AND **APPARATUS** FOR SOMEWHAT-TO-HIGHLY VISCOUS **FLUID** SPRAYING FOR FIBER OR FILAMENT GENERATION, CONTROLLED DROPLET GENERATION, AND COMBINATIONS OF FIBER AND DROPLET GENERATION, INTERMITTENT AND CONTINUOUS, AND FOR AIR-CONTROLLING SPRAY DEPOSITION

Priority: US19870036254 19870526 US19880198689 19880324 US19880278712 19881202

Family:

Publication number	Publication date	Application number	Application date
AU198816087 A1	19881201	AU19880016087	19880512
AU610168 B2	19910516	AU19880016087	19880512
BRPI8802576 A	19881220	BR1988PI02576	19880526
CN1030032 A	19890104	CN19881003103	19880526
EP0293065 A2	19881130	EP19880301339	19880331
EP0293065 A3	19890830	EP19880301339	19880331
FI882313 A	19881127	FI19880002313	19880517
FI882313 A0	19880517	FI19880002313	19880517
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IL86272 A1	19920201	IL19880086272	19880504
JP1058370 A2	19890306	JP19880128137	19880525
JP64058370 A2	19890306	JP19880128137	19880525
KR19880013618 A	19881221	KR19880006195	19880526
US4891249 A	19900102	US19880198689	19880324
US4996091 A	19910226	US19880278712	19881202

Probable Assignee: ACUMETER LAB

Assignee(s):(std)**:** ACUMETER LAB ; MCINTYRE FREDERIC S

Assignee(s): SOUTH SHORE BANK ; SOUTH SHORE BANK A MA CO ; ACUMETER LAB INC ; ACUMETER LABORATORIES INC ; FIRST BANK NATIONAL ASSOCIATION ; FREDERIC S MCINTYRE ; MAY COATING TECHNOLOGIES INC

Inventor(s):(std)**:** FREDERIC S MCINTYRE ; MCINTYRE FREDERIC S ; FUREDERITSUKU ESU MATSUKINTAIY

Inventor(s): FUREDERITSUKU ESU MATSUKINTAIYAA

Agent(s): PHILLIPS ORMONDE FITZPATRICK; REINHOLD COHN AND PARTNERS

Designated states: AT BE CH DE ES FR GB GR IT LI NL SE

International class (IPC 8-9): B05B7/04 B05B7/06 B05B7/08 B05B7/24 B05C5/02 B05D1/02 B05D1/32 B05D1/40 B05D7/00 B05D7/24 (Advanced/Invention);
B05D1/02 B05D1/40 B05D7/00 B05D7/24 (Advanced/Non-invention);
B05B7/02 B05B7/24 B05C5/02 B05D1/32 (Core/Invention)

International class (IPC 1-7): A41B13/02 A61F13/02 A61F13/16 A61F13/46 B05B1/00 B05B1/02 B05B1/12 B05B1/26 B05B12/12 B05B7/06 B05B7/08 B05B7/24 B05C11/10 B05C5/02 B05C5/04 B05D1/02 B05D1/12 B05D1/32 B05D1/40 B05D5/00 B05D7/00 B05D7/24 B32B5/08 D04H1/64 D04H3/12

CPC: Y10S428/913 B05C5/0225 Y10T156/1089 Y10T156/1095 Y10T428/24124 Y10T428/28 Y10T428/2848 Y10T428/2878 B05D1/32 B05B7/0475 B05B7/066 B05B7/0815 B05B7/0846 B05B7/0876 B05B7/2489 B05C5/02 B05C5/025 B05B1/3093

European class: B05B7/04C3D B05B7/06C3 B05B7/08A1 B05B7/08A3 B05B7/08C B05B7/24G B05C5/02 B05C5/02D1A B05C5/02E2 B05D1/32 L05C5/02C

US class: 118/315 118/325 118/674 156/297 156/301 156/356 239/291 239/300 239/421 239/424 427/208.6 427/421 427/427.6 428/113 428/284 428/286 428/296 428/297 428/343 428/354 428/355 428/355EN 428/913 604/365

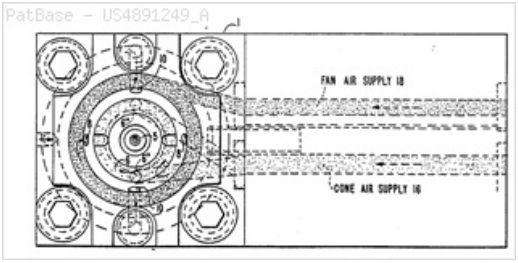
Classification Explorer

Cited documents: US4753843 A, US4722857 A, US4711683 A, US4666542 A, US4650119 A, US4565217 A, US4476165 A, US4431690 A, US4229472 A, US4133310 A, US4091140 A, US4020194 A, US4013816 A, US4013037 A, US3949130 A, US3940302 A, US3904455 A, US3878014 A, US3821062 A, US3791911 A, US3687791 A, US3676242 A, US3595204 A, US3553065 A, US3553064 A, US3546062 A, US3442751 A, US3387783 A, US3341394 A, US3318746 A, US3235186 A, US2740670 A, US2626122 A, JPS6223463, JPS6142373, JPS5992055, JPS5946159, JPS59222268, JPS58183958, JP62023463 A2, JP61042373 A2, JP60193252 B4, JP59222268 A2, JP59092055 A2, JP59046159 A2, JP58183958 A2, GB837455 A, DE2924174 A1,

Forward Citations: WO9954055, WO9946057, WO9938619, WO9835084, WO9816181, WO9711784, WO17044770, WO10032984, WO10032984, WO06056241, WO05000584, USRE39399, USRE37154, USRE36534, US9840812, US9725853, US9719213, US9702090, US9702089, US9682392, US9580872, US9555213, US9550204, US9506203, US9475082, US9358716, US9126223, US9085384, US9067394, US9034425, US8870559, US8690744, US8466216, US8453880, US8292863, US8196778, US8096483, US7938813, US7879172, US7772456, US7718251, US7681756, US7678856, US7678228, US7662745, US7621465, US7617951, US7614525, US7566381, US7516909, US7449085, US7435312, US7361253, US7297231, US7279045, US7247215, US7229529, US7189307, US7176150, US7160091, US7060155, US6991706, US6955946, US6946413, US6918993, US6905563, US6875712, US6863225, US6814810, US6811638, US6811095, US6719846, US6696120, US6695992, US6602554, US6562740, US6541304, US6541063, US6533898, US6520425, US6509089, US6461430, US6422848, US6422428, US6419126, US6382526, US6378784, US6344109, US6325853, US6308864, US6296463, US6291016, US6273345, US6264113, US6245150, US6220843, US6197406, US6173864, US6135747, US6113013, US6077375, US6056213, US6045864, US6037009, US6012647, US5964973, US5958512, US5932284, US5906682, US5879751, US5873528, US5851566, US5843230, US5843057, US5833678, US5728219, US5685911, US5683752, US5683036, US5618566, US5618347, US5605706, US5598974, US5540804, US5538754, US5533675, US5524828, US5516545, US5507909, US5501756, US5458721, US5447254, US5445509, US5431343, US5429840, US5423935, US5421941, US5421921, US5418009, US5409768, US5409733, US5387208, US5382312, US5368233, US5354378, US5342647, US5342469, US5340648, US5322564, US5316836, US5294258, US5292068, US5227107, US5163620, US5160746, US5143776, US5124111, US5114752, US5026450, US4995333, US4987854, US2016339469, US2015306625, US2015114999, US2014190408, US2012139153, US2011118098, US2011033698, US2010051638, US2010018996, US2009065611, US2008006382, US2007278331, US2007255243, US2007218270, US2007215718, US2007194274, US2007187056, US2007135785, US2007102539, US2007065643, US2007051484, US2007003704, US2006188594, US2006135932, US2006069365, US2006014884, US2006009743, US2006005919, US2006004336, US2005284338, US2005266759, US2005247417, US2005242108, US2005233018, US2005127208, US2005051276, US2005045295, US2005045294, US2005045293, US2005045292, US2004148763, US2004118511, US2004118506, US2004081794, US2004031578, US2003168180, US2003137080, US2003127536, US2003073367, US2003049987, US2002117559, US2002077015, US2001022155, KR101039494, JP6170308, JP3186375, JP2713542, JP2007099359, FR2759388,

EP3165288, EP2319767, EP1407830, EP1243341, EP0988897, EP0988897, EP0936000, EP0852517, EP0843037, EP0819477, EP0819473, EP0720871, EP0707841, EP0633339, EP0603748, EP0578469, EP0568812, EP0519363, DE102014010843, CN104936706, CN101733231, AU710076, AU667918,

Abstract:
Source: US4891249A The invention relates to an **apparatus** and method of controlling the generation of somewhat-to-highly viscous **fluid** fibers, droplets and combinations of the same, including hot melt adhesive and other **fluids**, that comprises, spraying a stream of such pressurized **fluid** through a fine orifice and along a predetermined direction in free flight, and simultaneously funneling a cone of pressurized air symmetrically about and against said stream, intersecting the same in its free flight below said orifice to control the nature, dimensions and pattern of the resulting **fluid** coating on surface disposed therebelow. Supplemental air controls are also providable for contouring and other effects.



113) Family number: 30143807 (US2002091439A)

Title: GRAFT ASSEMBLY HAVING SUPPORT STRUCTURE

Priority:

AU19890034392	19890308	AU19910080417	19910712	AU19930038261	19930429
AU19970012219	19970120	AU19940070204	19940810	AU19960074253	19961211
AU19940064747	19940615	AU19960040886	19960110	AU19960046847	19951213
CA19912046974	19910712	CA19890616927	19890309	CA19912176621	19910712
CA19912176621	19910712	CA19942300743	19940606	CA19940616927	19941014
CA19890593275	19890309	CA19942241034	19940606	CA19942125258	19940606
CA19942125258	19940606	AU19980087066	19980925	AU19990039191	19990713
EP19910306388	19910715	EP19890903904	19890308	US19940358067	19941215
US19950485481	19950607	EP19940305835	19940805	US19860940907	19861210
US19830559935	19831209	US19930034587	19930322	US19910752058	19910829
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US19930103442	19930806	US19970912956	19970814	US19950562351	19951122
US19900553530	19900713	US19970911379	19970814	US19910752008	19910829
US19960748637	19961113	US19940342438	19941118	US19930175491	19931229
US19870034587	19870406	US19930102576	19930805	US19880166093	19880309
WO1989US00937	19890308	WO1995US16091	19951213	WO1996US08794	19960604
US20020066436	20020130	US19970931323	19970916	US19980082592	19980521
US19990407593	19990928	US20030376926	20030228	US20010825199	20010402
US19990353747	19990714	US20030411896	20030411	US20000686264	20001010
US20020171900	20020614	US20020189246	20020702	US20070625755	20070122
US19990405965	19990927	US20000542035	20000403		

Family:

Publication number	Publication date	Application number	Application date
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AT137655 E	19960515	AT19890903904T	19890308
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AU199674253 A1	19970213	AU19960074253	19961211
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AU637318 B2	19930527	AU19890034392	19890308
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AU704204 B2	19990415	AU19960046847	19951213
AU718009 B2	20000406	AU19960061511	19960604
AU722454 B2	20000803	AU19980087066	19980925
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DE68926452 T3	20030618	DE19896026452T	19890308
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DE69117366 T2	19960905	DE19916017366T	19910715
DE69421466 D1	19991209	DE19946021466	19940805
DE69421466 T2	20000210	DE19946021466T	19940805
EP0407425 A1	19910116	EP19890903904	19890308
EP0407425 A4	19910403	EP19890903904	19890308
EP0407425 B1	19960508	EP19890903904	19890308
EP0407425 B2	20030129	EP19890903904	19890308
EP0466518 A2	19920115	EP19910306388	19910715
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EP0466518 B1	19960228	EP19910306388	19910715
EP0637454 A1	19950208	EP19940305835	19940805

EP0637454 B1	19991103	EP19940305835	19940805
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EP0836451 A1	19980422	EP19960919074	19960604
EP0836451 A4	20010228	EP19960919074	19960604
EP0945152 A1	19990929	EP19990201273	19940805
IL98820 A0	19920715	IL19910098820	19910712
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JP11506665 T2	19990615	JP19970501285T	19960604
JP2002503114 T2	20020129	JP19960519210T	19951213
JP2006271988 A2	20061012	JP20060139948	20060519
JP2771001 B2	19980702	JP19890503999T	19890308
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US5397345 A	19950314	US19930175491	19931229
US5562728 A	19961008	US19950420623	19950412
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US5669936 A	19970923	US19950395157	19950227
US5693083 A	19971202	US19940358067	19941215
US5749920 A	19980512	US19950562351	19951122
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Designated states: AL AM AT AU AZ BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IS IT JP KE KG KP KR KZ LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SN SZ TD TG TJ TM TR TT UA UG UZ VN

International class (IPC 8-9): A61B17/00 A61B17/11 A61B19/00 A61F2/00 A61F2/02 A61F2/04 A61F2/06 A61F2/07 A61F2/46 A61F2/82 A61F2/84 A61F2/848 A61F2/88 A61F2/958 A61M25/00 A61M25/10 A61M29/00 A61M5/00 (Advanced/Invention);
A61B17/00 A61B19/00 A61F2/00 A61F2/02 A61F2/04 A61F2/46 (Advanced/Non-invention);

A61B17/00 A61B17/03 A61F2/04 A61F2/06 A61F2/82 A61M25/00 A61M25/10 A61M29/00 A61M5/00 (Core/Invention);
A61F2/00 (Core/Non-invention)

International class (IPC 1-7): A61B17/00 A61B17/04 A61F2/00 A61F2/02 A61F2/04 A61F2/06 A61F2/46 A61F2/54 A61M25/00 A61M25/01 A61M25/10 A61M29/00 A61M29/02 A61M5/00

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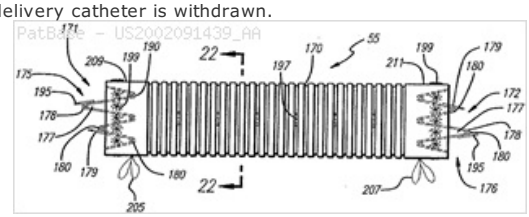
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Abstract:
Source: US2002091439A A delivery catheter having an inner catheter assembly, an inferior capsule catheter, and a capsule jacket assembly for use in deploying a graft having a compressible and expandable attachment systems in the thoracic region of an aorta. The graft is comprised of a tubular member having superior and inferior ends, each having an attachment system with wall engaging members secured thereto and is crimped along its midsection to resist kinking and elongation. The delivery catheter includes an inferior capsule assembly for releasably retaining the inferior attachment system of the graft and a superior capsule assembly for releasably retaining the superior attachment system of the graft as well as a releasing system for maintaining the attachment systems in a compressed configuration and for facilitating expansion of the attachment systems. The delivery catheter also includes an anti-elongation wire attached to the inner catheter assembly to prevent stretching of the delivery catheter during deployment of the graft within the aorta. Upon removing the attachment systems from the capsule, the releasing system functions to allow the attachment systems to assume their expanded configuration and engage the walls of the aorta. The graft and attachment systems remain in the vessel after the delivery catheter is withdrawn.



114) Family number: 2999666 (US4865581A)

Title: RETROPERFUSION CONTROL **APPARATUS**, SYSTEM AND METHOD

Priority: CA19880568022 19880527 US19870056401 19870529 US19900511930 19900416 US19900523173 19900514 US19870120591 19871113 US19880198441 19880525

Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: ZOLL CIRCULATION INC

Assignee(s):(std)**:** RETOROPAAFUYUUJOHN SYST INC ; RETROPERFUSION SYSTEMS INC

Assignee(s): ZOLL CIRCULATION INC ; RETROPERFUSION SYSTEMS INC COSTA MESA CALIF US ; TARCZY HORNOCH ZOLTAN ; KARDOS THOMAS J ; LUNDQUIST INGEMAR H ; NEUROPERFUSION INC

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Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SMART AND BIGGAR

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International class (IPC 1-7): A61M1/00 A61M1/10 A61M5/00

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US class: 600/16 600/17 600/18 604/67 604/914

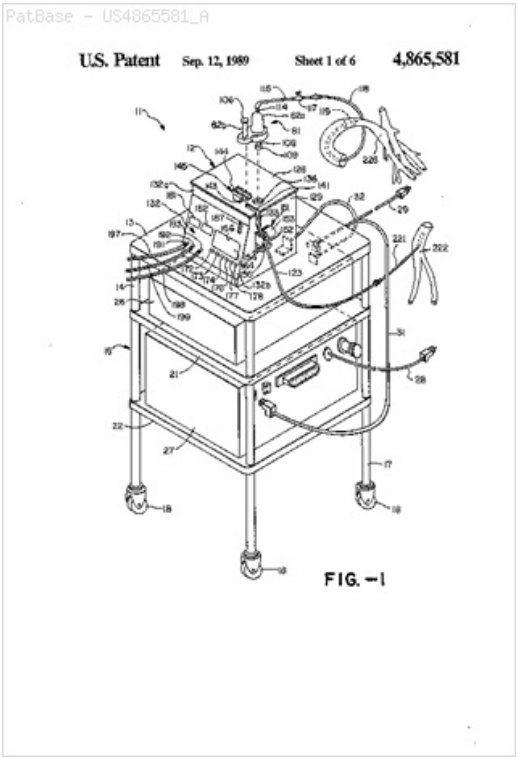
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Forward Citations: WO9850100, WO9823217, WO9632887, WO9213588, WO17033090, WO12145424, WO11136813, WO11087838, WO09115242, WO09012473, WO04075951, WO04075951, US9895490, US9889257, US9884171, US9880528, US9879668, US9878096, US9878095, US9875633, US9861783, US9861748, US9855049, US9849240, US9849239, US9839753, US9839741, US9833564, US9833563, US9833555, US9795732, US9789242, US9770553, US9757518, US9755452, US9750878, US9750877, US9744301, US9694132, US9694122, US9681828, US9669191, US9662480, US9662445, US9662118, US9655755, US9642777, US9636453, US9629992, US9623228, US9623179, US9616165, US9610431, US9610402, US9610401, US9598210, US9579454, US9561345, US9555190, US9533132, US9533124, US9526834, US9526504, US9522223, US9517304, US9517303, US9513104, US9492637, US9463309, US9433731, US9415157, US9402949, US9399118, US9399096, US9393399, US9387305, US9381287, US9379653, US9379652, US9364609, US9351869, US9344024, US9341184, US9339639, US9333292, US9308321, US9295771, US9272125, US9265512, US9259528, US9259215, US9241699, US9168361, US9155869, US9138527, US9138519, US9126018, US9107994, US9101305, US9033924, US9018893, US9011364, US8996106, US8992475, US8962303, US8945068, US8932269, US8920381, US8900206, US8900115, US8870829, US8870818, US8870805, US8864726, US8858490, US8851866, US8821438, US8808269, US8795225, US8784355, US8755269, US8740834, US8721515, US8717181, US8708996, US8690855, US8628510, US8628490, US8622954, US8614596, US8609400, US8603033, US8603032, US8603027, US8603026, US8574201, US8568357, US8564447, US8562565, US8545432, US8540669, US8523803, US8500623, US8495918, US8487758, US8480650, US8479595, US8474332, US8445260, US8431385, US8420381, US8414516, US8386042, US8366659, US8349551, US8344847, US8343089, US8337175, US8323954, US8318415, US8298169, US8268612, US8268547, US8221342, US8208973, US8206350, US8197444, US8190390, US8157760, US8128595, US8073008, US8002728, US7998104, US7993260, US7951107, US7942844, US7856335, US7849860, US7824848, US7819843, US7749693, US7717685, US7641632, US7614997, US7591778, US7588531, US7513863, US7491163, US7458929, US7445592, US7351340, US7331921, US7318892, US7303680, US7278984, US7264730, US7264606, US7159592, US7144365, US7125376, US7006005, US6936060, US6929009, US6923792, US6902556, US6896663, US6889082, US6755851, US6716236, US6685621, US6682551, US6656157, US6626862, US6622367, US6610004, US6589206, US6516224, US6485450, US6482171, US6481439, US6460544, US6458323, US6454792, US6436130, US6436087, US6435189, US6432081, US6428464, US6423031, US6416533, US6409747, US6398752, US6393320, US6390969, US6387037, US6383172, US6346098, US6299575, US6296605, US6293920, US6287275, US6261269, US6248086, US6224619, US6221045, US6216573, US6200260, US6164920, US6159178, US6146411, US6110139, US6099502, US6083215, US6056723, US6048330, US5997505, US5965089, US5941894, US5935103, US5913842, US5885238, US5882343, US5827222, US5813972, US5810757, US5800397, US5800375, US5800374, US5794629, US5792094, US5769812, US5765568, US5755687, US5752929, US5738652, US5709654, US5634880, US5584804,

US5558644, US5513956, US5458571, US5453091, US5449345, US5449342, US5431629, US5425713, US5272917, US5181518, US5108360, US2016320228, US2013282042, US2012277786, US2012259282, US2012190913, US2011295302, US2011288478, US2011270176, US2011152970, US2011150680, US2011149759, US2011105955, US2011093230, US2011082408, US2011050428, US2011009725, US2011006876, US2011005984, US2011004147, US2010241047, US2010198143, US2010161346, US2010111066, US2010082011, US2009192749, US2009143662, US2009112626, US2009112076, US2009099509, US2009088731, US2009024072, US2008300572, US2008281412, US2008177245, US2008147050, US2008147004, US2008033357, US2007293921, US2007255348, US2007255250, US2007255125, US2007255116, US2007254593, US2007253380, US2007251835, US2006270965, US2006270895, US2006270891, US2006264694, US2006264693, US2006264689, US2006211981, US2006184089, US2005267443, US2005209579, US2005154344, US2004234380, US2004191116, US2004138519, US2004127851, US2004122353, US2004092799, US2003217972, US2003212304, US2003088259, US2003069468, US2002188167, US2002161321, US2002151922, US2002128586, US2002111584, US2002062146, US2001013822, JP6042437, JP4776621, JP2014530042, GB2492923, GB2492923, FR2648714, EP2823833, EP2563445, EP2563445, EP2465423, EP0821566, EP0663215, EP0516777, EP0516777, DE19514638, DE19514638, DE102011016508, DE102005004663, CN102939124, CN102770086, AU665191, AU2012245502,

Abstract:
Source: US4865581A Retroperfusion control **apparatus** for supplying arterial blood of a patient to the venous side of the patient's heart including a pump having an inlet and an outlet and a piston movable through a pump stroke for moving a liquid from the inlet to the outlet of the pump. A stepper motor is provided which drives the piston. Electronic circuitry is provided for driving the stepper motor and senses the presence of an R wave in a patient to operate the stepper motor in response to the sensed R wave.



115) Family number: 48242714 (US5080648A)

Title: Hypodermic **fluid** dispenser

Priority:

AU19980050902	19971024	AU20010093422	20011122	NZ19970335323	19971024
EP19880905325	19880531	JP19980519696	19971024	CA19880567925	19880527
US19960738303	19961025	US19940253416	19940603	US19920818235	19920108
US19890336636	19890407	US19870059620	19870608	WO1997US19449	19971024
WO1988US01824	19880531	WO1995US06955	19950602		

Family:

Publication number	Publication date	Application number	Application date
AR008688 AA	20000209	AR1997P104965	19971027
AT87832 E	19930415	AT19880905325T	19880531
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AU200193422 A1	20020117	AU20010093422	20011122
AU200193422 A5	20020117	AU20010093422	20011122
AU742570 B2	20020110	AU19980050902	19971024
AU773141 B2	20040520	AU20010093422	20011122
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JP3685499 B2	20050817	JP19980519696T	19971024
NZ335323 A	20020927	NZ19970335323	19971024
NZ520498 A	20020927	NZ19970520498	19971024
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WO9534333 A3	19960118	WO1995US06955	19950602
WO9817332 A2	19980430	WO1997US19449	19971024
WO9817332 A3	19980618	WO1997US19449	19971024

Probable Assignee: D ANTONIO CONSULTANTS INT INC

Assignee(s):(std)**:** ANTONIO CONSULTANTS INT INC D ; ANTONIO CONSULTANTS INTERNAT I ; ANTONIO CONSULTANTS INTERNAT INC D ; ANTONIO CONSULTANTS INTERNATIO ; ANTONIO CONSULTANTS INTERNATL ; D ANTONIO NICHOLAS F ; DANTONIO CONSULTANTS INT ; ANTONIO NICHOLAS F D

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Inventor(s):(std)**:** WAGNER JOHN T ; D ANTONIO NICHOLAS F ; D ANTONIO LINDA F ; ANTONIO NICHOLAS F D ; ANTONIO LINDA F D

Inventor(s): D ANTONIO NICHOLAS FRED ; ANTONIO NICHOLAS F D LIVERPOOL N Y ; NICHOLAS F D'ANTONIO ; NICHOLAS F D ANTONIO ; LINDA F D'ANTONIO ; LINDA F D ANTONIO ; JOHN T WAGNER ; DOANTONIO NIKORASU EFU ; D'ANTONIO NICHOLAS F ; D'ANTONIO LINDA F

Agent(s): SANDERCOCK AND COWIE; SIM AND MCBURNEY; BORDEN LADNER GERVAIS LLP; RIDOUT AND MAYBEE LLP

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

International class (IPC 8-9): A61B17/20 A61D7/00 A61M11/00 A61M25/00 A61M3/00 A61M5/142 A61M5/145 A61M5/20 A61M5/24 A61M5/28 A61M5/30 A61M5/307 A61M5/315 A61M5/32 A61M5/46 A61M5/48 A61M5/50 (Advanced/Invention);
A61M5/142 A61M5/145 A61M5/20 A61M5/24 A61M5/28 A61M5/315 A61M5/32 A61M5/46 A61M5/48 A61M5/50 (Advanced/Non-invention);
A61B17/20 A61D7/00 A61M25/00 A61M3/00 A61M5/20 A61M5/24 A61M5/30 A61M5/32 (Core/Invention);
A61M5/24 A61M5/28 A61M5/315 A61M5/32 A61M5/50 (Core/Non-invention)

International class (IPC 1-7): A61B17/20 A61D7/00 A61M11/00 A61M25/00 A61M3/00 A61M5/00 A61M5/20 A61M5/24 A61M5/30 A61M5/307

CPC: A61M2205/8293 A61M5/14216 A61M5/14566 A61M5/20 A61M5/3007 A61M5/326 A61M5/3298 A61M5/46 A61M5/484 A61M2005/14533 A61M2005/2414 A61M2005/3125 A61M2005/3152 A61M2005/3249 A61M2205/50 A61D7/00 A61M5/2425 A61M5/204 A61M5/24 A61M5/282 A61M5/30 A61M5/31525 A61M5/31566 A61M5/31596 A61M5/3243 A61M5/50 A61M5/5013 A61M2005/005 A61M2205/3317 A61M5/31533 A61M2005/31588

European class: A61M5/24 A61M5/24E1 A61M5/30 A61M5/32C2H K61M205/33E K61M205/50 K61M5/00P4 K61M5/142G2

K61M5/145B12 K61M5/145B3 K61M5/20 K61M5/20D K61M5/24 K61M5/24A6 K61M5/24E1 K61M5/28E1 K61M5/30J K61M5/315C6 K61M5/315D K61M5/315E K61M5/315F1 K61M5/315F2C K61M5/315M K61M5/31A8 K61M5/32C2H K61M5/32C2H1D2 K61M5/32C2H2F K61M5/32P2 K61M5/46 K61M5/48C K61M5/50 K61M5/50B

US class: 604/134 604/135 604/68 604/71 604/72

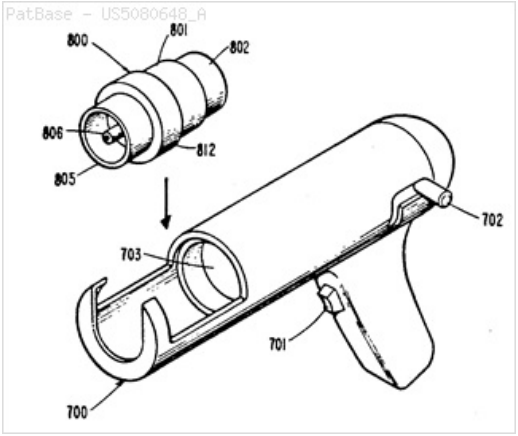
Classification Explorer

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Forward Citations: WO9910031, WO9817332, WO9628203, WO9618425, WO9527523, WO17176787, WO17091536, WO16081238, WO16008845, WO14200066, WO13074244, WO12153148, WO12123532, WO12123532, WO11036285, WO11036285, WO10048753, WO10038182, WO10038182, WO09081399, WO08107381, WO07128767, WO07109006, WO06079064, WO04110299, WO04110299, WO04022138, WO04022138, WO04016306, WO03099358, WO03099358, WO03092531, WO03037410, WO0215971, WO0168165, WO0056381, USRE44847, USRE44846, USRE42463, US9883834, US9861759, US9848810, US9846763, US9838645, US9808585, US9808582, US9808578, US9782545, US9750881, US9744302, US9737670, US9737659, US9731075, US9707354, US9694140, US9694135, US9687141, US9669164, US9669163, US9656019, US9629959, US9616173, US9572924, US9517030, US9446195, US9398894, US9364611, US9364610, US9339613, US9333309, US9333060, US9308326, US9265461, US9242053, US9242052, US9233206, US9220660, US9192750, US9180259, US9149578, US9075906, US9067015, US9044542, US9022987, US9005182, US8998881, 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Abstract:
Source: US5080648A Needle and high velocity jet hypodermic **injectors** employ a tubular liquid chamber, a suitable output port i.e., a needle or a jet port, and corresponding means for applying pressure to collapse the liquid chamber. The needle **injector** includes a needle sheath which automatically covers the needle after use and inhibits reuse of the needle. The jet **injector** electronically controls and monitors the system parameters of operation to assure successful **injection** results.

PatBase - US5080648_A



116) Family number: 11027410 (US5073167A)

Title: IN-**LINE** MICROWAVE WARMING **APPARATUS**

Priority:

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WO1995US12097 19950925	US19960586399 19960116	US19950380815 19950130
US19970980536 19971201	US19960650422 19960520	US19940312310 19940926

Family:

Publication number	Publication date	Application number	Application date
AU199536388 A1	19960419	AU19950036388	19950925
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Probable Assignee: CORAL SAND BEACH LLC

Assignee(s):(std)**:** CARR KENNETH L ; MICROWAVE MED SYST ; MA COM INC ; M A KOMU INC

Assignee(s): MAIKUROEIBU MEDEIKARU SHISUTEMUSU INC ; MICROWAVE MEDICAL SYSTEMS ; MICROWAVE MEDICAL SYST INC ; NEW ENGLAND MEDICAL CENTER HOSPITALS INC A MA CORP ; MICROWAVE MEDICAL SYSTEMS INC LITTLETON MASS US ; M A COM INC 63 SOUTH AVENUE BURLINGTON MASSACHUSETTS 01803 A MASSACHUSETTS CORP ; MERIDIAN MEDICAL SYSTEMS LLC ; NEW ENGLAND MEDICAL CENTER HOSPITALS INC ; MICROWAVE MEDICAL SYSTEMS INC ; CORAL SAND BEACH LLC ; GRABOWY RICHARD S ; M A COM INC ; M A COM INC 63 SOUTH AVENUE BURLINGTON MASSACHUSET

Inventor(s):(std)**:** CARR KENNETH L ; KENESU ERU KAA ; RICHIYAADO ESU GURABOUI ; GRABOWY RICHARD S

Inventor(s): SCHWAITZBERG STEVEN D ; RICHAADO ESU GURABOI ; GRABOWY RICHARD S CONCORD MASSACHUSETTS 01742 US ; CARR KENNETH L HAVARD MASSACHUSETTS 01451 US ; KENNETH L CARR

Agent(s): OGILVY RENAULT LLP SENCRL SRL; SMART AND BIGGAR

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

International class (IPC 8-9): A61M1/36 A61M5/44 A61N5/02 F24H1/10 G01N1/31 G01N1/44 H05B6/68 H05B6/70 H05B6/78 H05B6/80 (Advanced/Invention);
A61M1/36 (Core/Invention)

International class (IPC 1-7): A61B17/36 A61B17/38 A61B18/18 A61F7/12 A61L2/12 A61M1/26 A61M1/36 A61M5/14 A61M5/44 A61N5/02 F24H1/10 H05B6/68 H05B6/78 H05B6/80

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European class: A61M1/36T A61M5/44 G01N1/31 G01N1/44 H05B6/64S H05B6/68 H05B6/70 H05B6/70A H05B6/80F H05B6/80L K61M205/36A K61M205/36L K61M205/36R2

US class: 128/898 219/630 219/679 219/687 219/690 219/692 219/710 604/113 604/114 604/20 606/27 606/31 606/33 606/34 606/42 607/100 607/101 607/102 607/103 607/96

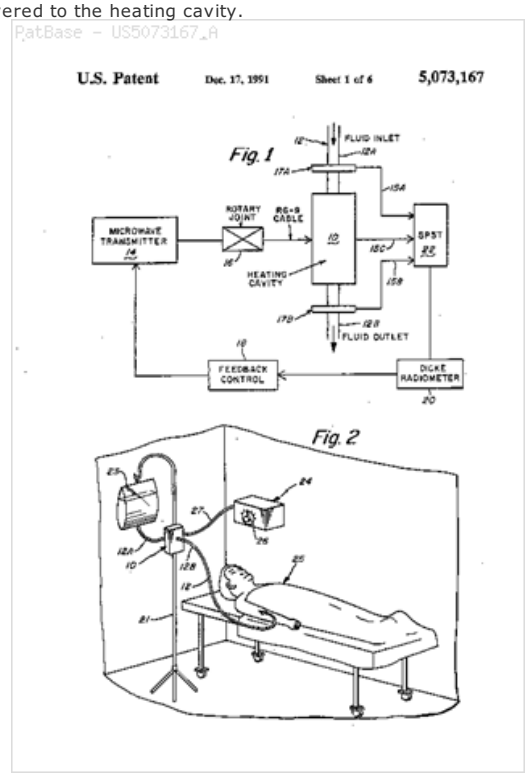
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Abstract:
Source: US5073167A A microwave **apparatus** for warming of a liquid such as blood or IV **fluids** in which the warming occurs in-**line** by means of a microwave heating cavity having a source of microwave energy **coupled** thereto. A support element in the form of a bobbin forms an assembly with an IV tube wound about the bobbin. This tubing-bobbin assembly is inserted into the microwave heating cavity. A non-invasive, non-perturbing microwave temperature monitor is provided **coupled** to the microwave heating cavity for monitoring the temperature of liquid flowing in the IV tube. Controls are provided including a desired operating temperature selector for combining signals representative of, not only cavity temperature, but also inlet and outlet temperatures to control the power level of microwave energy delivered to the heating cavity.



117) Family number: 29456586 (US4959324A)

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Title: SAMPLE PAD ASSAY INITIATION **DEVICE** AND METHOD OF MAKING

Priority:

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Family:

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

Assignee(s):(std)**:** CHEMTRAK INC ; CHEMTRAK CORP ; PIYAARU KAANNA ; PURITEIPARU SHIN ; PATEL P JIVAN ; SINGH PRITHIPAL ; RAMEL URS A ; PYARE KHANNA ; ALLEN MICHAEL P ; CHEM TRAK INC ; CHEMTRACK INC

Assignee(s): CHEMTRAK ; CHEMTRACK ; CHEMTRACK 110C PIONEER WAY MOUNTAIN VIEW CA 94041 ; SINGH PRITHIPAL LOS ALTOS HILLS CALIF US ; KHANNA PYARE FREMONT CALIF US ; KHANNA PYARE FREMONT CALIF ; SINGH PRITHIPAL LOS ALTOS HILLS CALIF ; KEMUTORATSUKU INC ; KHANNA PYARE ; CHEMTRAK A CORP ; CHEMTRAK A CA CORP ; CHEMTRAK 484 OAKMEAD PARKWAY SUNNYVALE CALIFORNIA ; CHEMTRAK A CORP OF CA ; CHEMTRAK INC 484 OAKMEAD PARKWAY SUNNYVALE CA 9408 ; CHEMTRAK INC SUNNYVALE CALIF US ; JEONG HENRY J

Inventor(s):(std)**:** MAIKERU PII AREN ; PATEL P JIVAN ; PIYAARU KAANNA ; PURITEIPARU SHIN ; RAMEL URS A ; SHIBUYA ROBERT B ; SINGH PRITHIPAL ; ALLEN MICHAEL P ; DELIZZA ANTHONY J ; HENRII JIEI JIYON ; JEONG HENRY J ; KHANNA PYARE ; ROBERT B SHIBUYA ; MICHAEL P ALLEN

Inventor(s): ALLEN MICHAEL P SUNNYVALE CA 94087 US ; KHANNA PYARE FREMONT CALIF ; HENRY J JEONG ; SINGH PRITHIPAL LOS ALTOS HILLS CALIF ; SINGH PRITHIPAL LOS ALTOS HILLS CALIF US ; KHANNA PYARE FREMONT CALIF US ; SHIBUYA ROBERT B LOS ALTOS HILLS CA 94022 US

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; FETHERSTONHAUGH AND CO

Designated states: AT BE CH DE DK ES FR GB GR IT LI LU NL SE

International class (IPC 8-9): A61B5/145 B01L3/00 C12M1/34 C12M1/40 C12Q1/00 C12Q1/26 C12Q1/28 C12Q1/44 C12Q1/54 C12Q1/60 C12Q1/70 G01N3/52 G01N33/49 G01N33/52 G01N33/543 G01N33/92 G01N37/00 (Advanced/Invention);
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International class (IPC 1-7): A61B5/14 B01D61/00 C12M1/34 C12M1/40 C12Q1/00 C12Q1/26 C12Q1/28 C12Q1/44 C12Q1/54 C12Q1/60 C12Q1/70 G01N21/00 G01N21/77 G01N21/78 G01N21/79 G01N3/52 G01N31/22 G01N33/52 G01N33/53 G01N33/543 G01N33/558 G01N33/92

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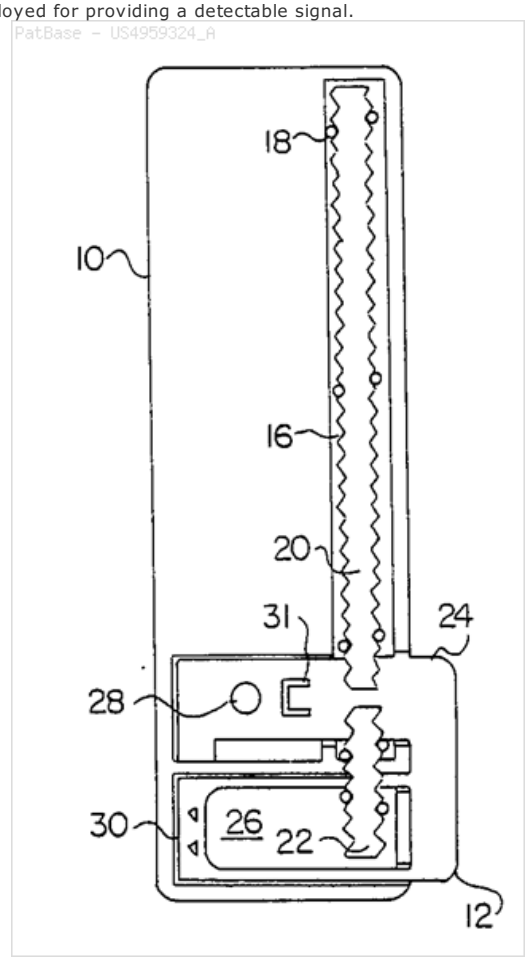
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Abstract:
Source: US4959324A A self-contained assay **device** is provided, where an analyte may be detected or be quantitated by measuring the distance of a detectable signal from a predetermined site. The **device** employs two strips separated by a gap, where a flow path is completed by movement of a sample receiving pad into the gap. The movement of the sample receiving pad

also results in release of a reagent solution which is then transported through the pad into the quantitation area where the amount of analyte may be determined. Various chemistries may be employed for providing a detectable signal.



118) Family number: 22764819 (US5023088A)

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Title: Multi-unit delivery system

Priority:

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Family:

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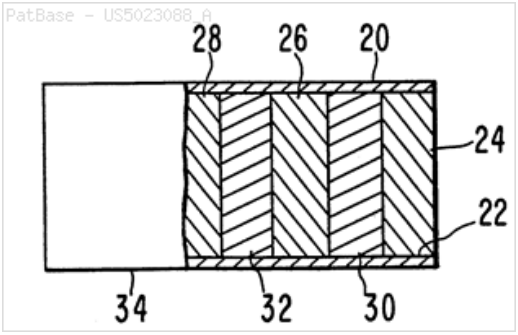
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Designated states: AT AU BE CA CH DE DK ES FI FR GB GR IT JP KR LI LU MC NL NO SE

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Abstract:
Source: US5023088A A dispenser for use in a **fluid** environment which is capable of delivery of a plurality of discrete drug-containing units in any desired delivery pattern or profile.



119) Family number: 15017712 (US4861335A)

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Title: Syringe

Priority:

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Publication number	Publication date	Application number	Application date
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Probable Assignee: DUOJECT MEDICAL SYSTEMS INC

Assignee(s):(std)**:** DAVID L REYNOLDS ; DEYUOJIEKUTO MEDICAL SYST INC ; DUOJECT INC ; DUOJECT MEDICAL SYSTEMS INC ; REYNOLDS DAVID L ; DUOJET MEDICAL SYSTEMS INC

Assignee(s): DUOJECT MEDICAL SYSTEMS INC WEST MONTREAL QUEBEC CA ; REYNOLDS DAVID L LAC BROME QUEBEC CA ; DUOJECT MEDICAL SYSTEMS INC LA BROME QUEBEC CA

Inventor(s):(std)**:** DAVID L REYNOLDS ; DEBITSUTO ERU REINORUZU ; REYNOLDS DAVID L

Inventor(s): REYNOLDS DAVID L LAC BROME QUEBEC CA

Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD; FINCHAM ERIC; BERESKIN AND PARR

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

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A61J1/05 A61M5/145 A61M5/24 A61M5/31 (Advanced/Non-invention);
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A61M5/145 A61M5/31 (Core/Non-invention)

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CPC: A61M5/1411 A61M5/1456 A61M5/2425 A61M5/2448 A61M5/31596 A61M2005/31598 B01F1/0022 B01F13/0023 B01F15/0212 B01F15/0225 A61J1/062 A61M5/315 A61M5/31505 A61J1/2096 A61J1/10 A61J1/1475 A61J1/2089 A61M5/1452 A61M5/28 A61M5/284 A61M2005/3139 A61J1/201 A61J1/2013 A61J1/2044 A61J1/2075

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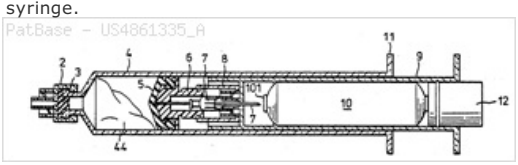
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Abstract:
Source: US4861335A A syringe provides for the isolated storage of two components of a medicament until immediately prior to use of the syringe. One liquid component is stored in a collapsible chamber of a sealed capsule within a hollow plunger stem of the syringe, and the other component beneath the head of the plunger. A double headed needle arrangement between the head and stem of the plunger is caused to penetrate the plunger head and the capsule when the syringe is to be used so that the plunger may be drawn back to exhaust the contents of the capsule chamber into admixture with the component stored beneath the head of the plunger. Communication through the double headed needle arrangement is then interrupted before the plunger is used to eject the syringe contents through an external needle fitted to the syringe.



120) Family number: 30247208 (US4880429A)

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Title: PROSTHETIC MENISCUS

Priority:

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US19920872636	19920422	WO1993US03328	19930407	WO1990US01141	19900301

Family:

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

International class (IPC 8-9): A01N1/02 A61B17/04 A61B19/00 A61F2/00 A61F2/02 A61F2/08 A61F2/28 A61F2/30 A61F2/38 A61F2/42 A61F2/44 A61F2/46 A61F2/54 A61L27/00 A61L27/20 A61L27/22 A61L27/24 A61L27/26 A61L27/36 A61L27/46 A61L27/48 A61L27/54 A61L27/56 A61L27/58 A61P19/02 (Advanced/Invention);
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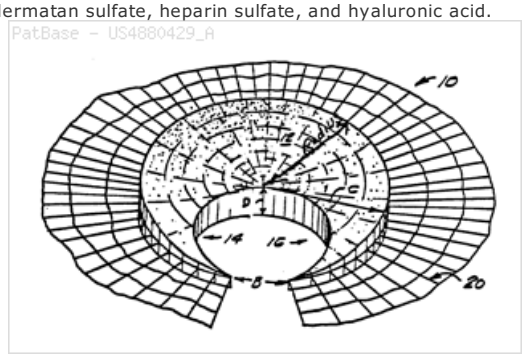
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Abstract:

Source: US4880429A A prosthetic meniscus is disclosed which can be implanted in a humanoid knee, and which can act as a scaffold for regrowth of native meniscal tissues. The meniscus comprises a three dimensional array of collagen fibers interspersed with glycosaminoglycan molecules. The collagen fibers are present at a concentration of about 65 to 98 percent by dry weight, and the glycosaminoglycan molecules are present at a concentration of about 1 to 25 percent by dry weight. Crosslinks are provided by at least a portion of the glycosaminoglycan molecules, and may consist of at least one of the group comprising chondroitan 4-sulfate, chondroitan 6-sulfate, keritan sulfate, dermatan sulfate, heparin sulfate, and hyaluronic acid.



121) Family number: 30174297 (US4943414A)

Title: METHOD FOR VAPOR STERILIZATON OF ARTICLES HAVING LUMENS

Priority:
CA19880573315 19880728
CA19962175867 19960506
EP19880112383 19880729
NZ19880225382 19880712
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EP19960303167 19960507
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US19920864151 19920402

Family:

Publication number	Publication date	Application number	Application date
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ZA8805596 A	19900328	ZA19880005596	19880729
ZA9603598 A	19971107	ZA19960003598	19960507

Probable Assignee: JOHNSON AND JOHNSON MEDICAL INC

Assignee(s):(std)**:** ETHICON INC ; JOHNSON AND JOHNSON ; JOHNSON AND JOHNSON MEDICAL ; JOHNSON AND JOHNSON MEDICAL INC ; SURGIKOS INC

Assignee(s): JOHNSON AND JOHNSON MEDICAL INC A NJ CORP ; JOHNSON AND JOHNSON MEDICAL INC NEW BRUNSWICK N J US ; SOTO TOBY A ; SOTO TOBY ; KOWATSCH REINHARD ; JOHNSON AND JOHNSON MEDICAL INC NEW BRUNSWICK N J ; JOHNSON AND JOHNSON MEDICAL INC A NEW JERSEY CORP ; SURGIKOS INC A CORP OF TEXAS ; ETHICON INC SOMMERVILLE ; HOWLETT CHARLES ; JACOBS PAUL T ; BERRY RONALD F

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Agent(s): GRIFFITH HACK; FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS;

	FPA PATENT ATTORNEYS PTY LTD; OGILVY RENAULT LLP SENCRL SRL; FISHER ADRIAN JOHN ET AL
Designated states:	AT BE CH DE ES FR GB IE IT LI LU NL SE
International class (IPC 8-9):	A61B1/12 A61L2/06 A61L2/14 A61L2/18 A61L2/20 A61L2/22 A61L2/26 (Advanced/Invention); A61B1/12 A61L2/18 (Advanced/Non-invention); A61B1/12 A61L2/04 A61L2/18 A61L2/20 (Core/Invention)
International class (IPC 1-7):	A61L2/00 A61L2/06 A61L2/16 A61L2/18 A61L2/20 A61L2/22 A61L2/26
CPC:	A61L2/208 A61L2/14 A61L2/22 A61L2/26 A61L2202/122 A61L2202/24 Y10S220/07 A61B1/121 A61L2/20
European class:	A61B1/12D A61L2/14 A61L2/20 A61L2/20H A61L2/22 A61L2/26 K61B1/12D K61L202/122 K61L202/240
US class:	220/278 220/85F 220/87 220/87.1 220/DIG.7 422/102 422/103 422/28 422/292 422/294 422/305 422/544 422/559
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Forward Citations:	WO9737692, WO9411035, WO9411035, WO9317726, WO16165976, WO05118002, US9888684, US9870895, US9867975, US9844757, US9834809, US9833748, US9770040, US9752105, US9744617, US9708256, US9707350, US9707349, US9707348, US9700710, US9700677, US9700676, US9700672, US9651197, US9649718, US9649436, US9610546, US9592375, US9560875, US9560874, US9555146, US9511162, US9511161, US9491965, US9439991, US9421292, US9402929, US9288982, US9277850, US9259535, US9247738, US9167814, US9017607, US8999175, US8992837, US8968268, US8957246, US8932535, US8889081, US8845593, US8840836, US8821807, US8758789, US8758679, US8658092, US8641684, US8366995, US8361408, US8318188, US8277724, US8276348, US8246906, US8187652, US8178042, US8128976, US8124132, US8114342, US8109871, US8075857, US8057812, US8043650, US8030351, US8020520, US8017082, US7985383, US7887641, US7871372, US7832360, US7816555, US7807100, US7803316, US7803315, US7780910, US7771737, US7754670, US7754156, US7670550, US7638090, US7622606, US7569232, US7569180, US7556767, US7547421, US7507429, US7504124, US7504123, US7498051, US7482166, US7468159, US7410803, US7393818, US7381439, US7351386, US7316824, US7300638, US7300637, US7294305, US7285254, US7273594, US7267806, US7252800, US7229591, US7217685, US7186374, US7179419, US7150884, US7129080, US7071152, US7061597, US7060301, US7056536, US6977061, US6964787, US6927237, US6919057, US6916480, US6858181, US6852279, US6821487, US6815206, US6797234, US6794318, US6767509, US6734157, US6685895, US6673313, US6656427, US6656426, US6645430, US6627593, US6627150, US6596232, US6594971, US6589565, US6589481, US6585934, US6545047, US6534002, US6528017, US6528015, US6495100, US6479454, US6451255, US6451254, US6439246, US6423266, US6326032, US6325972, US6319480, US6312646, US6312645, US6286527, US6224828, US6203756, US6187266, US6187265, US6174502, US6132680, US6083458, US6068817, US6068815, US6066294, US6030579, US6015529, US6013227, US5980825, US5961921, US5939033, US5932482, US5925316, US5919418, US5911950, US5904897, US5876666, US5871692, US5869000, US5868667, US5851485, US5770739, US5733503, US5718910, US5674450, US5667753, US5580530, US5556607, US5552320, US5534221, US5527508, US5527507, US5508009, US5492672, US5489434, US5482683, US5445792, US5437868, US5391350, US5348556, US5317896, US5310524, US2015377392, US2013205720, US2013025600, US2012117920, US2011135537, US2011125104, US2011091354, US2011027383, US2010316527, US2010022644, US2009324445, US2009196939, US2009145859, US2009143481, US2009081767, US2009081311, US2008283095, US2008199562, US2008131342, US2008039803, US2007292580, US2007289614, US2007286398, US2007258873, US2007238923, US2007237674, US2007231204, US2007231191, US2007161859, US2007149848, US2007098751, US2007093762, US2007062128, US2007060791, US2007048177, US2007037723, US2007010420, US2006293564, US2006263245, US2006160712, US2006105930, US2006095021, US2006078459, US2005288204, US2005260107, US2005244297, US2005192197, US2005191209, US2005191208, US2005163897, US2005163896, US2005163655, US2005159324, US2005153031, US2005152991, US2005151117, US2005147524, US2005118940, US2005096245, US2005025666, US2004234756, US2004191399, US2004170527, US2004143133, US2004105780, US2004096364, US2004092034, US2004068008, US2004062692, US2004033161, US2004001774, US2003206827, US2003190256, US2003181786, US2003167506, US2003148385, US2003147775, US2003138347, US2003124026, US2003072701, US2003026729, US2002192340, US2002098111, US2002072703, US2002022246, US2001036422, US2001031221, TWI376274, MY120695, JP5803850, JP5772699, JP2014045784, JP2013223580, JP2013081541, GR97100171, GR970100171, EP2952797, EP2347772, EP2340853, EP1994947, EP1908483, EP1557181, EP1552853, EP1473044, EP1380309, EP1346681, EP1308173, EP1200136, EP1192954, EP1186307, EP1110558, EP1110557, EP0923949, EP0923949, EP0907381, EP0831056, EP0799621, EP0795335, EP0780130, EP0742017, EP0668784, DE19858391, DE102012001566, AU723034, AU721001, AU2005249347,

Abstract:
Source: US4943414A A method and **device** for enhancing the vapor sterilization of the lumen of **medical** instruments and like articles under reduced pressure. A vessel containing a small amount of a vaporizable liquid sterilant solution is attached to the lumen. The sterilant vaporizes and flows directly into the lumen of the article as the pressure is reduced for the sterilization cycle.

PatBase - US4943414_A

FIG-1

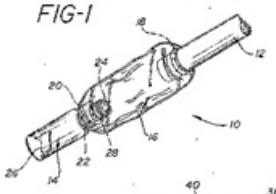


FIG-2

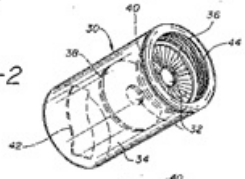
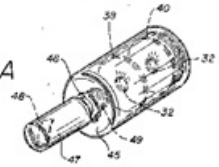


FIG-2A



122) Family number: 3045871 (US4838855A)

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Title: BLOOD ASPIRATION ASSEMBLY AND METHOD

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

Family:

Publication number	Publication date	Application number	Application date
DE3855267 D1	19960613	DE19883855267	19880801
DE3855267 T2	19961121	DE19883855267T	19880801
DE69116006 D1	19960215	DE19916016006	19910619
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US5562639 A	19961008	US19930155863	19931123

Probable Assignee: LYNN LAWRENCE A COLUMBUS OHIO US

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

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

Designated states: DE FR GB IT NL SE

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

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

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

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

US class: 128/762 128/764 128/765 128/766 600/575 600/577 600/578 600/579 604/122 604/183 604/201 604/205 604/208 604/244 604/248 604/280 604/283 604/35 604/38 604/4 604/411 604/49 604/523 604/53 604/540 604/6.12 604/86 604/88 604/905

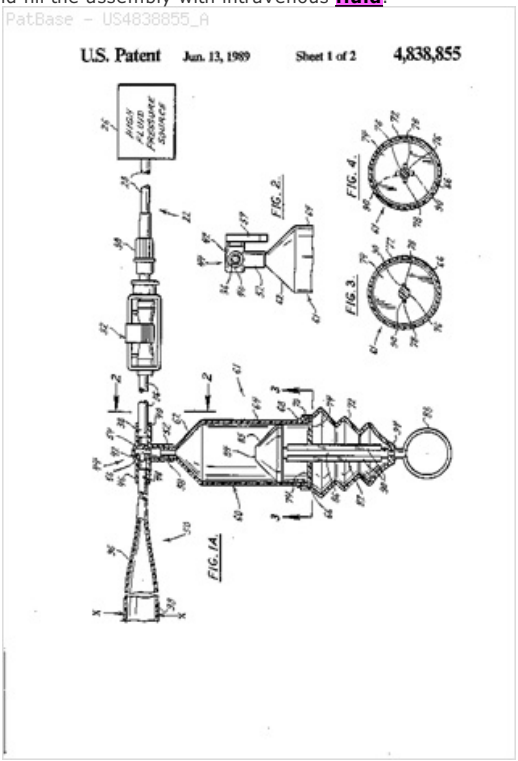
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Abstract:
Source: US4838855A A blood aspiration assembly (20) comprises proximal (22), intermediate (50) and distal tubing (24), a reservoir (61) having an adjustable volume, an aspirator receiver (106) and a two-way valve (44). The reservoir (61)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



123) Family number: 9002995 (US4925444A)

Title: CLOSED MULTI-**FLUID** DELIVERY SYSTEM AND METHOD

Priority:
CA19880573511 19880729 CA19880616180 19880729 CA19885735114 19880729
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Family:

Publication number	Publication date	Application number	Application date
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AT77563 B	19890208	AT19880307268	19880805
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CA1322743 A1	19931005	CA19880616185	19880729
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JP2711861 B2	19980210	JP19880197808	19880808
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US5207642 A	19930504	US19890345064	19890428

Probable Assignee: BAXTER TRAVENOL LABORATORIES INC A CORP OF DE

Assignee(s):(std)**:** BAXTER TRAVENOL LAB ; BAXTER INT INC A DELAWARE ; BAXTER INT

Assignee(s): BAXTER INT INC ; BAXTER INT INC A DELAWARE CORP ; BAXTER INT INC A DELAWARE CORPORATION ; BAXTER INT INC DEERFIELD ILL ; BAXTER INT INC DEERFIELD ILL US ; BAXTER INT INC N D GES D STAATES DELAWA ; BAXTER INT INC N D GES D STAATES DELAWARE DEERFIELD ILL US ; BAXTER TRAVENOL LABORATORIES INC ; BAXTER INTERNATL INC ; BAXTER TRAVENOL LABORATORIES INC A CORP OF DE ; KNOWLTON KIMBALL J ; HUNTLEY ALBIN ; ORKIN FREDERIC IRWIN ; SMITH CHARLES R ; LIBER THEODORE ; BAXTER INT INC NDGESDSTAATES DELAWARE DEERFIELD ILL

Inventor(s):(std)**:** KINBOORU JIEI NOURUTON ; KNOWLTON KIMBALL J ; LIBER THEODORE ; ORKIN FREDERIC I ; SEODOA RIBAA ; SMITH CHARLES R ; ARUBIN HANTOREE ; CHIYAARUSU AARU SUMISU ; FUEDERITSUKU AAUIN OOKIN ; HUNTLEY ALBIN ; ORKIN FREDRIC I ; ORKIN FREDERIC IRWIN

Inventor(s): KIMBALL J KNOWLTON ; FREDERIC IRWIN ORKIN ; CHARLES R SMITH ; ALBIN HUNTLEY ; THEODORE LIBER ; SMITH CHARLES R LIBERTYVILLE ILLINOIS 60048 US ; SMITH CHARLES R LIBERTYVILLE ILLINOIS 60048 ; ORKIN FREDERIC IRWIN DEERFIELD ILLINOIS 60015 US ; ORKIN FREDERIC IRWIN DEERFIELD ILLINOIS 60015 ; LIBER THEODORE HIGHLAND PARK ILLINOIS 60035 US ; LIBER THEODORE HIGHLAND PARK ILLINOIS 60035 ; KNOWLTON KIMBALL J LINDENHURST ILLINOIS 60046 US ; KNOWLTON KIMBALL J LINDENHURST ILLINOIS 60046 ; HUNTLEY ALBIN CONCORD CALIFORNIA 94518 US ; HUNTLEY ALBIN CONCORD CALIFORNIA 94518

Agent(s): PETER MAXWELL AND ASSOCIATES; SIM AND MCBURNEY

Designated states: AT BE CH DE FR GB LI NL SE

International class (IPC 8-9):
A61M39/00 A61M39/02 A61M39/04 A61M5/00 A61M5/14 A61M5/168 G05D11/02 (Advanced/Invention);
A61M39/00 A61M39/02 A61M5/00 (Advanced/Non-invention);
A61M39/02 A61M5/14 A61M5/168 (Core/Invention)

International class (IPC 1-7): A61M31/00 A61M37/00 A61M39/00 A61M39/02 A61M5/00 A61M5/14 A61M5/168 F16L55/00 F16L55/14 G05D11/02

CPC: Y10S123/13 Y10S128/13 Y10S604/905 A61M39/04 A61M5/16827

European class: A61M39/04 A61M5/168A11

US class: 123/DIG.13 128/DIG.13 604/123 604/250 604/65 604/80 604/86 604/905

Classification Explorer

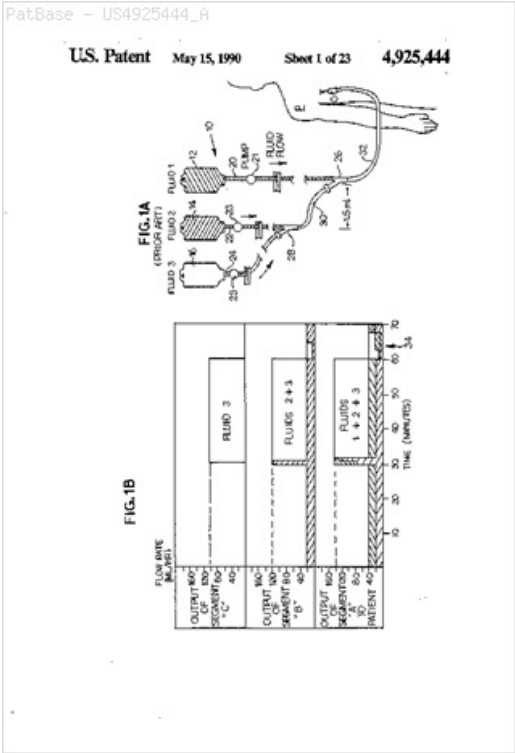
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Abstract:
Source: US4925444A A multiple **fluid** delivery system usable for the delivery of intravenous **fluids** to a patient from a plurality of **fluid** sources includes flexible tubing members for **coupling** the sources to a **fluid** junction member. The **fluid** junction

member, wherein little or no interfluid mixing occurs, is **coupled** by an output conduit to a controllable pump. Output from the pump, via a further **fluid** flow conduit, can be **coupled** to the patient's catheter. The system can multiplex a plurality of different **fluids**. Spaced apart sequences of **fluid** quanta are **injected** into the output conduit from the **fluid** flow junction. The **fluids** are either mixed, or not, in the output conduit as desired. Operator interaction and control of the system can occur either through a display screen or by means of a bar code sensor. Hard copy records can be provided of **fluid** flow delivery schedules or other related information.



124) Family number: 5093867 (US4825859A)

Title: NEONATAL CLOSED SYSTEM FOR INVOLUNTARY ASPIRATION AND VENTILATION AND METHOD

Priority: US19870024436 19870311 US19880157237 19880218 US19900514645 19900425 US19880279488 19881201 US19910791720 19911114

Family:

Publication number	Publication date	Application number	Application date
US4825859 A	19890502	US19870024436	19870311
US4838255 A	19890613	US19880157237	19880218
US4967743 A	19901106	US19880279488	19881201
US5107829 A	19920428	US19900514645	19900425
US5133345 A	19920728	US19910791720	19911114

Probable Assignee: KIMBERLY CLARK WORLDWIDE INC

Assignee(s):(std)**:** BALLARD MED PROD

Assignee(s): BALLARD MEDICAL PRODUCTS ; KIMBERLY CLARK WORLDWIDE INC

Inventor(s):(std)**:** LAMBERT RICHARD C

International class (IPC 8-9): A61M16/04 (Advanced/Invention); A61M25/01 (Advanced/Non-invention); A61M16/04 (Core/Invention); A61M25/01 (Core/Non-invention)

International class (IPC 1-7): A61M15/00

CPC: Y10S128/912 Y10S604/905 A61M2016/0027 A61M16/0463 A61M25/0111 A61M16/0841 A61M16/0858

European class: A61M16/04D K61M25/01C2

US class: 128/202.16 128/205.19 128/207.14 128/207.16 128/912 604/171 604/283 604/533 604/540 604/905 D24/110

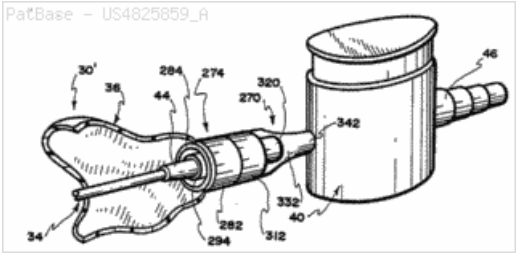
Classification Explorer

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Forward Citations: WO9609082, WO9531250, WO9309833, WO9206729, WO13063520, WO11020985, WO04098654, WO04098654, WO0209800, USD809126, USD699348, US9855111, US9675774, US9597159, US9579012, US9445714, US9386907, US9358358, US9332891, US9289567, US9227034, US9180270, US9132250, US9095286, US9032957, US9011341, US8985099, US8955518, US8951355, US8939152, US8925545, US8858619, US8813750, US8807136, US8776793, US8770193, US8750978, US8739778, US8721713, US8702662, US8684175, US8677999, US8636010, US8601633, US8590534, US8573219, US8567399, US8561614, US8557054, US8534287, US8434487, US8418694, US8414544, US8413659, US8388759, US8381729, US8307830, US8246752, US8196584, US8187200, US8181652, US8181651, US8136527, US8048233, US8012141, US7951243, US7950393, US7854728, US7833194, US7775206, US7721738, US7669600, US7631642, US7588033, US7549419, US7533670, US7527058, US7509164, US7500483, US7487778, US7458955, US7353822, US7273473, US7156827, US7152603, US7021313, US6978783, US6935339, US6811142, US6805125, US6769430, US6729326, US6702789, US6612304, US6588427, US6579254, US6575944, US6543451, US6516800, US6494203, US6484724, US6457472, US6443147, US6231524, US6227200, US6227197, US6082361, US6029666, US5951497, US5919174, US5885248, US5778877, US5738091, US5735271, US5720282, US5715815, US5694922, US5676136, US5645048, US5642726, US5611336, US5598840, US5591130, US5582165, US5582161, US5549645, US5540225, US5513628, US5490503, US5487381, US5443060, US5437272, US5433195, US5431157, US5404873, US5403290, US5368017, US5361754, US5355876, US5353787, US5349950, US5343857, US5333606, US5329921, US5309902, US5279549, US5277177, US5269756, US5258015, US5255676, US5254098, US5246012, US5233979, US5230332, US5218957, US5199427, US5165420, US5158569, US5125893, US5119807, US5101820, US5101817, US5083561, US5065754, US5029580, US4953547, US2013104884, US2012090619, US2011209705, US2011197894, US2011186052, US2011125135, US2011040286, US2011040285, US2010323048, US2010313896, US2010313894, US2010186748, US2010059057, US2009288664, US2009287151, US2009264833, US2009209880, US2009204065, US2009171237, US2009131915, US2009107494, US2009025717, US2008215034, US2008210243, US2008142016, US2008105263, US2008097411, US2008078405, US2008078401, US2008078400, US2008078399, US2008053454, US2008041371, US2008029088, US2008000482, US2007296125, US2007295337, US2007295336, US2007293812, US2006130847, US2006079802, US2005279362, US2005235996, US2005199243, US2005034721, US2005028818, US2005020975, US2005005936, US2004255952, US2004186429, US2004182390, US2004092956, US2003056787, US2003047704, US2001029953, EP1305071, EP0808636, EP0793520, EP0793520, BE1007144, AU2004235782,

Abstract:
Source: US4825859A **Apparatus** for respiratory therapy, which is particularly useful in a neonatal context, and related methods, the **apparatus** comprising an adaptor for **connection** to the exposed fitting of an indwelling endotracheal tube of any one of several types to an aspirating **apparatus** which may include ventilating capacity. The adaptor includes an appendage by which a lavage solution can be selectively introduced into the lungs of a patient through the indwelling endotracheal tube to loosen secretions without necessarily interrupting the ventilation cycle or requiring that the ventilating circuit be broken. The **apparatus** also comprises a fitting at one end of an aspirating/ventilating **apparatus** which has low dead space, alleviating the incidence of inadvertent disconnection and trauma induced by unintended displacement of the end fitting and accommodating not only aspiration and ventilation but also monitoring of certain vital indicators to allow prompt **medical** response to contraindications. The **apparatus** further comprises a manual stationary insertion guide for introduction of the suction catheter tube into the respiratory system of the patient and control stop structure which accommodates insertion into the respiratory system of the patient of only a predetermined length of the suction catheter tube. The **apparatus** also comprises structure by which the flow of secretions through the suction catheter tube can be visually monitored.

PatBase - US4825859_A



125) Family number: 31444265 (US2001001538A)

© PatBase

Title: WAFER PROBE STATION HAVING ENVIRONMENT CONTROL ENCLOSURE

Priority:

US19870117245 19871104	US19900506915 19900409	US19930100494 19930802
US19930008272 19930125	US19920896853 19920611	US19940245581 19940518
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Family:

Publication number	Publication date	Application number	Application date
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US7221174 BB	20070522	US20060406737	20060418
US7321233 BB	20080122	US20070652788	20070111
US7330023 BB	20080212	US20050112813	20050421
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US7589518 BB	20090915	US20050056647	20050211
US7595632 BB	20090929	US20080006438	20080102
US7608043 BA	20091027	US20040849099	20040519
WO04036150 A2	20040429	WO2003US33254	20031020
WO04036150 A3	20041202	WO2003US33254	20031020

Probable Assignee: CASCADE MICROTECH INC

Assignee(s):(std)**:** GLOBAL MONITORS INC ; GEN ELECTRIC ; CASECADE MICROTECH INC ; CASCASE MICROTECH INC ; CASCADEMICROTECH INC ; BELANGER INC ; CASCADE MICROTECH INC ; LEE JEN SHIH LEE ; MIN MIKE ; LEE LIAN PIN ; WANG SHYH HAU

Assignee(s): HSBC BANK USA NATIONAL ASSOCIATION ; BANK OF AMERICA OREGON ; SABIC INNOVATIVE PLASTICS IP BV ; GENERAL ELECTRIC CO ; CARLTON DALE E ; CASCADE MICROECH INC ; GLEASON K REED ; CITIBANK NA ; CITIBANK NA COLLATERAL AGENT AS ; CASCADE MICROTECH INC AN OREGON CORP ; CASCADE MICROTECH INC BEAVERTON OREG US ; LEE LIAN PIN LEE JEN SHIH LEE WANG SHYH HAU MIN MI ; KASUKEEDE MAIKUROTETSUKU INC ; WARNER RICHARD H ; KOXXY MARTIN J ; SMITH KENNETH R ; SCHWINDT RANDY J ; TERVO PAUL A ; HARWOOD WARREN K ; SCHAPPACHER JERRY B ; SCHWINDT RANDY ; STRID ERIC W ; MIA MIKE ; LEE JEN SHIH

Inventor(s):(std)**:** HARWOOD WARREN ; HARWOOD WARREN K ; JIERII BII SHIYAPATSUCHIYAA ; KEI RIIDO GURIISON ; KENESU AARU SUMISU ; KOXXY MARTIN ; KOXXY MARTIN J ; LEE JEN SHIH ; LEE JEN SHIH LEE ; LEE LIAN PIN ; MIN MIKE ; PIITAA DEII ANDORIYUUSU ; POORU EI TAABO ; RANDEII JIEI SHIYUBINDO ; RANDY SCHWINDT ; RICHIYAADO ETSUCHI WAANAA ; RUISU MAIKERU MARESUKA ; CARLTON DALE E ; CLAGETT DONALD C ; CLAGETT DONALD CARL ; DEIRU II KAARUTON ; DONARUDO KAARU KURAGETSUTO ; ERITSUKU DABURIYUU SUTORAIDO ; FOX DANIEL W ; ANDREWS PETER D ; BELANGER MICHAEL J ; GLEASON K R ; GLEASON K REED ; SCHAPPACHER JERRY B ; SCHWINDT RANDY ; SCHWINDT RANDY J ; SHAFER SHELDON J ; SHAFER SHELDON JAY ; SHIERUDON JIEI SHIYAFUAA ; SMITH KENNETH R ; STRID ERIC W ; TERVO ; TERVO PAUL A ; UOOREN KEI HAAUTSUDO ; WANG SHYH HAU ; WARNER RICHARD H ; WENTWORTH ROBERT J ; MARESCA LOUIS MICHAEL ; MARESCA LOUIS M ; FOX DANIEL WAYNE ; DANIERU UEIN FUOTSUKUSU ; SHYH HAU WANG ; MIKE MIN ; MIA MIKE ; LIAN PIN LEE ; JEN SHIH LEE LEE

Inventor(s): WARNER RICHARD ; TERVO PAUL ; STRID ERIC ; SMITH KENNETH ; GLEASON K REED PORTLAND OREG ; CARLTON DALE ; GLEASON K ; SCHAPPACHER JERRY

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

International class (IPC 8-9): A46D1/00 A61B5/00 A61B6/00 A61B8/00 A61B8/06 A61B8/14 A61M1/34 B60S3/06 C08G69/44 G01N29/02 G01N29/024 G01N29/22 G01N29/30 G01N9/24 G01R1/00 G01R1/04 G01R1/06 G01R1/067 G01R1/073 G01R19/00 G01R31/02 G01R31/06 G01R31/26 G01R31/28 G01R35/00 H01L21/66 H01L21/687 H01R11/18 H05K9/00 (Advanced/Invention);
A61M1/36 (Advanced/Non-invention);
A61B5/00 A61B6/00 A61B8/00 A61B8/06 A61B8/14 A61M1/34 G01F G01N29/02 G01N29/22 G01N9/24 (Core/Invention);
A61M1/36 (Core/Non-invention);
G01F (Subclass/Invention)

International class (IPC 1-7): A61B8/00 A61B8/06 A61B8/14 B60S3/06 C08G69/44 C08L77/00 C08L77/12 G01R1/00 G01R1/06 G01R1/073 G01R19/00 G01R31/02 G01R31/06 G01R31/26 G01R31/28 H01L21/00 H01L21/66 H01R11/18

CPC: G01R1/067 B82Y35/00 G01R1/06705 G01R1/06772 G01R1/07342 G01R1/18 G01R19/0023 G01R35/00 H01R11/18 G01R1/0416 G01R1/06794 G01R1/07392 G01R31/2886 G01R31/2887 H01L21/68785 G01N9/24 G01N29/30 B82Y15/00 G01R1/073 G01R35/005 C08G69/44 G01R31/2862 G01R31/2868 H01L21/68714 B60S3/06 A46D1/00 A61M1/3437 A61M1/361 A61M1/342 A61B5/02042 A61B8/06 A61M1/367 A61M2205/3313 A61M2205/3375 A61M2230/20 A61M2230/207 G01N2291/02818 A61M1/3609 A61M2205/3306 G01N29/024 G01N29/222 G01N2291/012 G01N2291/02466 G01N2291/102

A61M1/3458 A61M1/3465

European class: A46D1/00 A61B5/02H A61B5/14D A61M1/34E A61M1/36C99 B82Y15/00 B82Y35/00 C08G69/44 G01N29/024 G01N29/22F G01N29/30 G01N9/24 G01R1/04S1 G01R1/067 G01R1/067B G01R1/067S G01R1/073 G01R1/073B4 G01R1/073E G01R1/18 G01R31/28G2B1 G01R31/28G5 G01R31/28G5B G01R31/316G G01R35/00 G01R35/00C H01L21/00S4D6 H01L21/687S H01L21/687S20 H01R11/18 K61B8/06 K61M1/34E1R K61M1/36A4C K61M1/36A4C1 K61M205/33D K61M205/33D4 K61M205/33U K61M230/20 K61M230/20H S01N291/01C S01N291/024K S01N291/028D S01N291/102 S01R1/067H S01R1/18 S01R19/00B S01R31/28G2B4 S01R31/28G5 S01R31/28G5B

US class: 15/230.14 15/230.16 15/97.3 15/973 210/739 322/476 324/158.1 324/73.1 324/750.01 324/750.010P 324/750.02 324/750.14 324/750.140P 324/750.16 324/750.19 324/750.190P 324/750.190S 324/750.22 324/750.220P 324/750.24 324/750.25 324/750.26 324/750.260P 324/750.27 324/750.270P 324/750.270S 324/754 324/754.01 324/754.03 324/754.030P 324/754.030S 324/754.05 324/754.050P 324/754.050S 324/754.07 324/754.11 324/755.01 324/755.02 324/755.07 324/755.070P 324/755.070S 324/756.01 324/756.02 324/756.020S 324/756.03 324/756.030S 324/756.04 324/756.040P 324/756.040S 324/756.05 324/757.03 324/758 324/760 324/761 324/762 324/762.05 324/762.050S 324/765 361/818 361/818S 525/425 525/432 525/434 528/288 600/322 600/368 600/437 600/438 600/439 600/468 73/1.82 73/18.2

Classification Explorer

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Abstract:
Source: US2001001538A A wafer probe station is equipped with an integrated environment control enclosure substantially surrounding a supporting surface for holding a test **device**, such enclosure limiting **fluid** communication between the interior and exterior of the enclosure and preferably also providing EMI shielding and a dark environment. The limited communication between the interior and exterior of the enclosure is kept substantially constant despite positioning movement of either the supporting surface or probe holders. The positioning mechanisms for the supporting surface and probe holders each have portions located at least partially outside of the enclosure for transferring movement mechanically to the surface or holders, respectively.

PatBase - US2001001538_AA

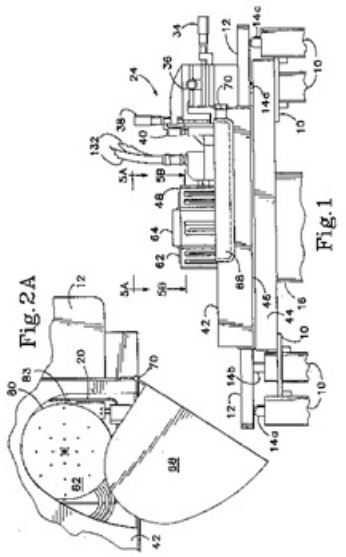


Fig.1

Fig.2A

126) Family number: 30418750 (US5242835A)

Title: METHOD AND **APPARATUS** FOR DETERMINING THE CONCENTRATION OF OXYGEN

Priority:

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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: RADIOMETER MEDICAL APS

Assignee(s):(std)**:** RADIOMETER AS ; RADIOMETER MEDICAL A S ; RADIOMETER MEDICAL AS ; RADIOMETER MEDICAL BROENSHO AS ; RADIOMETER MEDICAL AS BROENSHO

Assignee(s): RADIOMETER MEDICAL APS ; RADIOMETER MEDICAL A S COPENHAGEN DK ; RADIOMETER MEDICAL A S BROENSHOEJ DK ; RADIOMETER MEDICAL A S BROENSHOEJ ; RADIOMETER A S ; RADIOMETER A S A CORP ; RADIOMETER A S A CORP OF DENMARK ; RADIOMETER A S A CORP OF DENMARK EMDRUPVEJ 72 DK 2 ; RADIOMETER A S KOPENHAGEN KOEBENHAVN DK

Inventor(s):(std)**:** LUNDSGAARD FINN ; JENSEN NIELS ; LUNDSGAARD FINN CHRESTEN ; LUNDSGAARD FINN C ; JENSEN NIELS HENRIK ; ANDERSEN WILLY

Inventor(s): LUNDSGAARD FINN CHRESTEN DK 2630 TASTRUP DK ; ANDERSEN WILLY DK 3060 ESPERGARDE DK ; ANDERSEN WILLY DK 3060 ESPERGAERDE DK ; JENSEN NIELS HENRIK DK 3520 FARUM DK

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

International class (IPC 8-9): G01N21/11 G01N21/25 G01N21/27 G01N21/62 G01N21/64 G01N21/76 G01N21/77 G01N33/48 G01N33/49 G01N33/497 G01N33/84 (Advanced/Invention);
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Classification Explorer

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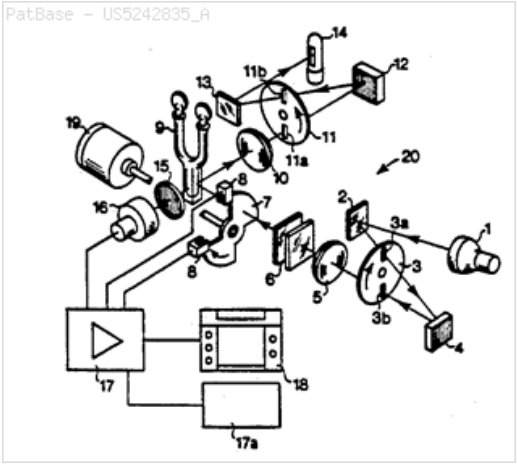
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Abstract:

Source: US5242835A The concentration of molecular oxygen in a sample is determined by exciting oxygen molecules of the sample from the electronic ground state to the excited 1 DELTA g state (excited singlet state), measuring a 1270-nm luminescence characteristic of the excited oxygen molecules (singlet oxygen) and correlating the luminescence characteristic measured with the concentration of molecular oxygen in the sample. Normally, the 1270-nm luminescence characteristic is the 1270-nm luminescence intensity. Preferably, the oxygen molecules are excited by being subjected to diffusion contact with a sensitizer such as a porphyrin or a porphyrin-related compound, e.g. a transition metal complex of a porphyrin. The sensitizer is brought into an oxygen-exciting electronic state by absorption of electromagnetic radiation such as light, the oxygen-exciting electronic state optionally being adapted to the measuring system employed by means of a quencher such as a substituted polyene. The sensitizer may be present in an organic solvent or a polymer such as polyvinylchloride. The oxygen-containing sample is preferably a sample of biological origin such as a blood sample.

PatBase - US5242835_A



127) Family number: 11097044 (US4838280A)

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Title: Hemostatic sheath for a biopsy needle and method of use

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Family:

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Probable Assignee: CHAGRIN FALLS OHIO

Assignee(s):(std)**:** CHAGRIN FALLS OHIO ; HAAGA JOHN ; HAAGA JOHN ROBERT ; HAAGA JOHN R ; JOHN R HAAGA

Assignee(s): JOHN ROBERT HAAGA ; HAAGA JON AARU ; HAAGA JOHN R CHAGRIN FALLS OHIO US

Inventor(s):(std)**:** HAAGA JOHN ROBERT ; HAAGA JOHN R

Inventor(s): HAAGA JOHN R CHAGRIN FALLS OHIO US ; HAAGA JON AARU ; JOHN ROBERT HAAGA ; JOHN R HAAGA

Agent(s): GOWLING LAFLEUR HENDERSON LLP

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

International class (IPC 8-9): A61B10/00 A61B10/02 A61B17/00 A61B17/03 A61B17/12 A61B17/34 A61F13/00 A61L33/00 A61M25/00 A61M5/158 A61M5/32 (Advanced/Invention);
A61B17/12 (Advanced/Non-invention);
A61B10/00 A61B10/02 A61B17/00 (Core/Invention);
A61B17/12 (Core/Non-invention)

International class (IPC 1-7): A61B10/00 A61B17/00 A61B17/12 A61B17/32 A61B17/34 A61F13/00 A61L33/00 A61M25/00 A61M5/158 A61M5/32 A61M5/325

CPC: A61B2017/00637 A61B10/0233 A61B17/0057 A61B2017/00004 A61B2017/12004

European class: A61B10/00C2 A61B10/02P A61B17/00P K61B17/00A K61B17/00P7 K61B17/12H

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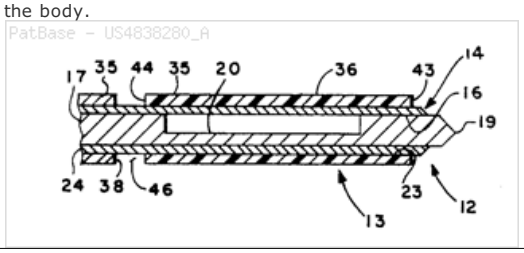
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Abstract:
Source: US4838280A A hemostatic gelatin sheath is fitted as a portion of an outer cannula over the distal portion of the inner cutting channula of a biopsy needle. Positioning means associated with the cannulas accurately deposits the hemostatic sheath at the position where the biopsy specimen was taken and the needle with the specimen therein is then withdrawn. The in situ sheath minimizes bleeding from the biopsy site before the gelatin is absorbed by the body.



128) Family number: 30156904 (US4891263A)

Title: POLYCARBONATE RANDOM COPOLYMER-BASED FIBER COMPOSITIONS AND METHOD OF MELT-SPINNING SAME AND **DEVICE**

Priority:

CA19890590294 19890207	CA19890594294 19890321	US19870134290 19871217
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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: ALLIED SIGNAL INC A CORP OF DE

Assignee(s):(std)**:** ALLIED SIGNAL INC ; UNITED STATES SURGICAL CORP

Assignee(s): YUNAITETSUDO SUTEETSU SAAJIKARU CORP ; UNITED STATES SURGICAL CORP NORWALK CONN US ; ALLIED SIGNAL INC A CORP OF DE ; BOYLE WILLIAM JOHNSTON JR ; CHIU TIN HO ; KOTLIAR ABRAHAM MORRIS ; MARES FRANK ; PATEL KUNDAN MAHIJIBHAI ; TANG REGINALD TING HONG

Inventor(s):(std)**:** BOYLE JR WILLIAM J ; BOYLE WILLIAM JOHNSTON JR ; CHIU TIN HO ; KOTLIAR ABRAHAM M ; KOTLIAR ABRAHAM MORRIS ; MARES FRANK ; PATEL JUNDA MAHIJIBHAI ; PATEL KUNDABHAI M ; PATEL KUNDAN M ; PATEL KUNDAN MAHIJIBHAI ; PATEL KUNDANBBAI ; PATEL KUNDANBHAI M ; TANG REGIANLD T ; TANG REGINALD T ; TANG REGINALD T H ; TANG REGINALD TING HONG ; PATEL JUNDA ; TANG REGINALD ; BOYLE WILLIAM

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Agent(s): GOWLING LAFLEUR HENDERSON LLP

Designated states: AT BE CH DE FR GB IT JP LI LU NL SE

International class (IPC 8-9): A61L15/64 A61L17/00 A61L17/10 A61L27/00 A61L27/18 A61L29/00 A61L31/00 A61L31/06 C08G63/64 C08G64/00 C08G64/02 D01F6/64 G01L9/00 G01N27/26 G01N27/28 G01N27/30 G01N37/00 (Advanced/Invention);
A61L15/16 A61L17/00 A61L27/00 A61L31/04 (Core/Invention)

International class (IPC 1-7): A61K9/70 A61L15/00 A61L15/64 A61L17/00 A61L27/00 A61L29/00 A61L31/00 A61M11/00 C08F283/00 C08G63/00 C08G63/08 C08G63/62 C08G63/64 C08G63/91 C08G64/00 C08G64/02 C08G64/18 C08J3/30 C08L69/00 C08L71/02 D01F6/64

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US class: 424/422 424/426 424/443 424/444 424/484 424/78.38 428/225 428/280 428/308.4 428/35.7 428/36.1 428/36.2 428/36.8 428/36.91 428/397 428/398 428/399 428/400 442/121 442/123 442/193 442/194 442/195 442/196 442/301 442/304 442/308 442/309 442/320 442/336 442/337 442/338 442/414 442/49 514/772 523/105 523/111 523/113 523/114 523/115 524/113 524/114 525/186 525/187 525/403 525/409 525/410 525/411 525/413 525/415 525/461 525/462 528 528/230 528/271 528/354 528/359 528/361 528/370 528/371 528/86 602/48 604/154 604/21 604/230 604/231 604/366 604/370 604/372 604/890.1 604/93 606/154 606/228 606/230 606/231 606/232 623/15 623/7

Classification Explorer

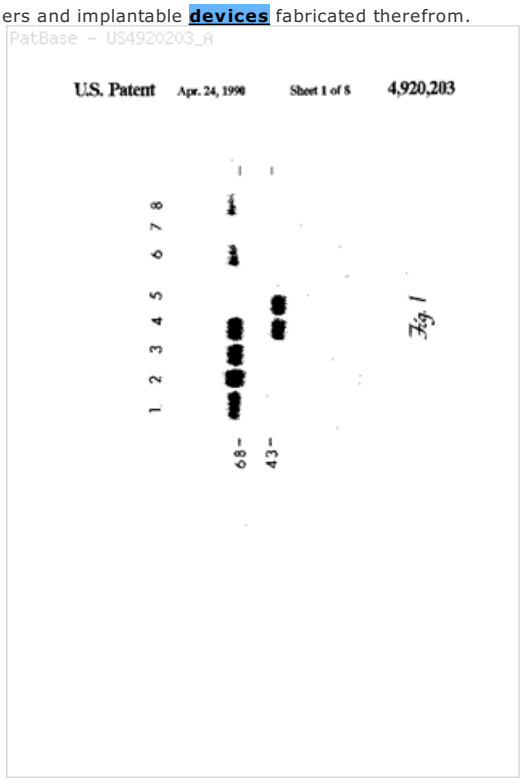
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Abstract:
Source: US4891263A This invention is directed to novel random copolymers and implantable **devices** fabricated therefrom.



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Title: AUTOMATIC INFILTRATION DETECTION SYSTEM AND METHOD

Priority: CA19890592021 19890224 EP19890302006 19890228 US19890369801 19890622
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Family:

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Agent(s): PETER MAXWELL AND ASSOCIATES; SIM AND MCBURNEY

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International class (IPC 8-9): A61M31/00 A61M5/00 A61M5/14 A61M5/168 G01L7/00 (Advanced/Invention); A61M5/00 (Advanced/Non-invention)

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CPC: Y10S128/13 A61M5/16831 A61M5/16854 A61M5/16859

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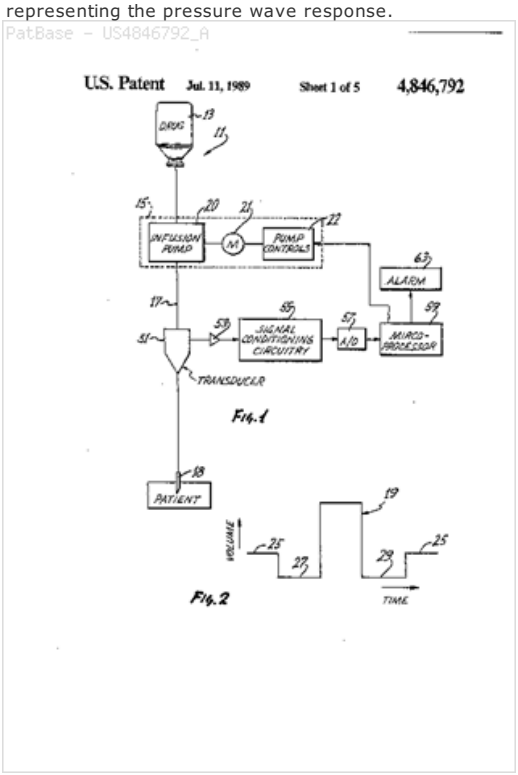
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US2011230812, US2011137241, US2011034814, US2010264931, US2010214110, US2010185132, US2010130905, US2010022935, US2010022934, US2009177148, US2009082676, US2008195060, US2008195021, US2007299389, US2007288176, US2007274843, US2007271062, US2007058412, US2006116623, US2005214129, US2005159708, US2005148927, US2005145010, US2005145009, US2005145008, US2005059926, US2005050941, US2005005710, US2003195454, US2003195453, US2003194894, JP3548117, JP2001523532, EP2519276, EP2330524, EP2117625, EP1772162, EP1699381, EP1699381, EP0923394, EP0895787, EP0784493, EP0563425, EP0529829, EP0453523, EP0431310, EP0387724, EP0361793, DE102009007806, DE102009007806, DE102008057994, CN104363938, CN103272306, AU744506, AU2008255283,

Abstract:
Source: US4846792A An infusion system for infusing a **fluid** into a patient comprising an infusion **device** for delivering the **fluid** in both a normal delivery pattern and a test pulse and a conduit for conducting the **fluid** from the infusion **device** to the patient. The test pulse creates a pressure wave response in the conduit. Abnormal infusion can be detected by determining the area between a baseline and at least a portion of a pressure versus time curve representing the pressure wave response.



130) Family number: 30014643 (US2004006262A)

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Title: METHOD FOR THE IONTOPHORETIC NON-INVASIVE DETERMINATION OF THE IN VIVO CONCENTRATION LEVEL OF AN INORGANIC OR ORGANIC SUBSTANCE

Priority: EP19890300782 19890127 EP19950105321 19890127 US19880150159 19880129 US19890299397 19890124 US19920879060 19920430 US20030341120 20030113 US19980516590 19980310 US19940312400 19940926 US19910771483 19911004 WO1989US00329 19890126

Family:

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Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD

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International class (IPC 8-9): A61B10/02 A61B5/00 A61B5/145 A61B5/1477 A61N1/30 (Advanced/Invention); A61B10/02 A61B5/145 (Advanced/Non-invention)

International class (IPC 1-7): A01N A61B10/00 A61B5/00 A61B5/05 A61B5/14 A61M5/00 A61N1/30 G01N1/00 G01N35/00

CPC: A61B5/14532 A61B5/411 A61M2037/0007 A61N1/303

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US class: 600/345 600/345P 600/347 600/368 600/373 600/395 604/20

Classification Explorer

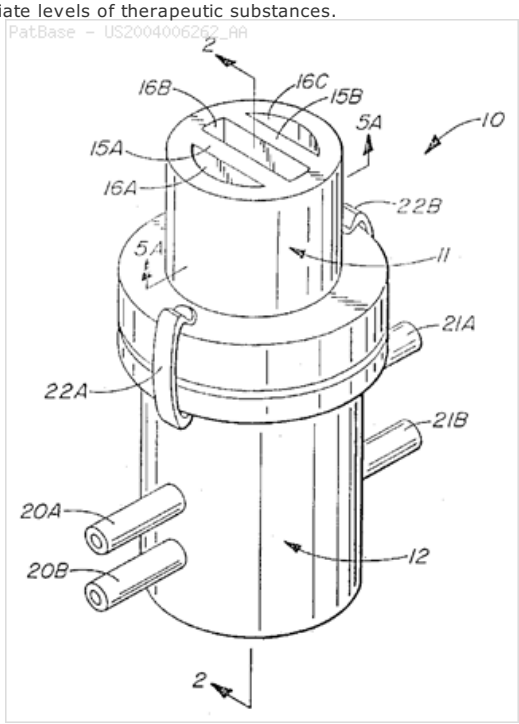
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EP1270041, EP1078258, EP1053043, EP1048264, EP1037687, EP1016433, EP0942278, EP0914178, EP0766578, EP0517120, DE202004021824, CN102105103, CN101987024, AU728510, AU728510, AU706662,

Abstract:
Source: US2004006262A The present invention relates to an vitro **device** for the removal of ionized substances from a membrane sample without mechanical penetration, which **device** comprises: (a) a positive electrode; (b) a negative electrode, and (c) electrical insulation between subpart (a) and (b), wherein the positive electrode, and the negative electrode, and electrical insulation are positioned on the same side of the membrane sample. The present invention also relates to a **device** for the removal of or delivery of ionized substances to a mammal through intact skin or mucosal membrane without mechanical penetration, which **device** comprises: (a) a positive electrode, (b) a negative electrode, and (c) an electrically insulating material between subpart (a) and (b), wherein the positive electrode, negative electrode and insulating material are physically positioned so that each present a common surface of the **device** for contact with the same surface of the skin or mucosal membrane of the mammal. The present invention also relates to the use of iontophoresis to determine the level of a charged molecule in a living mammal, and with the use of a feedback mechanism, administer appropriate levels of therapeutic substances.



131) Family number: 10450965 (US5234404A)

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Title: Diagnosis, evaluation and treatment of coronary artery disease by exercise simulation using closed loop drug delivery of an exercise simulating agent beta agonist

Priority:
EP19890301553 19890217 IE19890000526 19890217 JP19890042887 19890220
US19900625362 19901211 US19880157875 19880219 US19890308683 19890209
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Family:

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

Assignee(s):(std)**:** GENSIA INC ; GENSIA PHARMA ; GENSIA PHARMACEUTICALS INC

Assignee(s): PALL CORP ; JIENSHIA PHARMACEUT INC ; GENSIA PHARMACEUTICALS INC A CORP OF JAPAN ; SICOR INC ; GENSIA PHARMACEUT INC ; GENSIA INC SAN DIEGO CALIF US

Inventor(s):(std)**:** BROWE III CLINTON EUGENE ; BROWNE CLINTON E ; BROWNE CLINTON EUGENE ; BROWNE CLINTON EUGENE III ; BROWNE III CLINTON E ; BROWNE III CLINTON EUGENE ; BROWNE III CLINTON EUGENE BROW ; RONARUDO RARUFU TATSUTORU ; TUTTLE RONALD R ; TUTTLE RONALD RALPH ; KURINTON YUUJIIN BURAUN ZA SAA

Inventor(s): TUTTLE RONALD RALPH ESCONDIDO CALIFORNIA 92025 US ; BROWNE III CLINTON EUGENE BROWNE III CLINTON EUGEN ; BROWNE III CLINTON EUGENE BROWNE III CLINTON EUGENE GAINSVILLE FLORIDA 32607 US ; BROWNE III CLINTON EUGENE BROWNE III CLINTON... ; BROWNE III CLINTON EUGENE OCEANSIDE CALIFORNIA 920 ; BROWNE III CLINTON EUGENE OCEANSIDE CALIFORNIA 92056 US ; BROWNE III CLINTON EUGENE OCEANSIDE CALIFORNIA... ; CLINTON EUGENE BROWNE III ; KURINTON YUUJIIN BURAUN ZA SAADO ; NAME NOT GIVEN ; RONALD RALPH TUTTLE

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD

Designated states: AT BE CH DE ES FR GB GR IT LI LU NL SE

International class (IPC 8-9): A61B10/00 A61B5/00 A61K31/135 A61K31/16 A61K31/165 A61M1/00 A61M37/00 A61N1/30 A61N1/32 A61P25/02 A61P9/00 A61P9/10 C07C215/30 C07C215/60 C07C217/54 C07C217/62 C07C237/30 C07C45/30 (Advanced/Invention);
A61B10/00 A61B5/00 A61K31/165 A61M1/00 A61M37/00 A61N1/30 A61P9/00 (Advanced/Non-invention); A61N1/30 C07C215/00 C07C217/00 C07C237/00 C07C45/00 (Core/Invention)

International class (IPC 1-7): A61B10/00 A61B5/00 A61B5/02 A61B5/04 A61K31/13 A61K31/135 A61K31/16 A61K31/165 A61K31/325 A61K37/24 A61K45/06 A61M1/00 A61M31/00 A61M37/00 A61N1/30 C07C103/20 C07C103/28 C07C215/30 C07C215/46 C07C215/60 C07C217/30 C07C217/54 C07C217/62 C07C233/65 C07C237/30 C07C91/32 C07C91/34 C07C93/14

CPC: A61K31/135 A61K31/16 A61N1/044 A61N1/0448 A61N1/30 A61N1/325 C07C45/305 C07C215/60 C07C217/62 C07C237/30 Y10S128/13

European class: A61K31/135 A61K31/16 A61N1/04E1I1S A61N1/30 A61N1/32E C07C215/60 C07C217/62 C07C237/30 C07C45/30C K61N1/04E1I3

US class: 128/668 128/670 128/695 128/898 128/DIG.13 564/165 564/361 600/481 600/483 600/508 604/20 604/500 604/66 604/67 607/152

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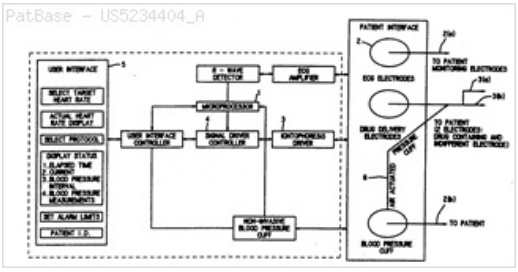
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Abstract:
Source: US5234404A Methods and **devices** for the diagnosis, evaluation and treatment of coronary artery disease (CAD) by means of a closed-loop drug delivery system that delivers an exercise simulating agent, including novel exercise simulating agents which elicit both acute and adaptive cardiovascular responses similar to those elicited by aerobic activity are provided. The acute responses to the exercise simulating agent are used to diagnose and evaluate CAD in lieu of the acute responses to aerobic exercise. Due to their adaptive responses these compounds may be used to treat CAD in lieu of the adaptive responses caused by aerobic exercise training or to treat other conditions where the adaptive responses caused by aerobic exercise are desirable.

FDA Data:

Application number	Active ingredient	Proprietary name	Applicant	Date of approval
020420	ARBUTAMINE HYDROCHLORIDE □□	GENESA □□	GENSIA AUTOMEDICS	Sep 12, 1997



132) Family number: 3466830 (US4923445A)

Title: Safety needled **medical devices**

Priority:
CA19890592266 19890228 US19880162569 19880301 US19890303588 19890127
US19880257407 19881013 US19890416927 19891004 US19880224920 19880727
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WO1991US03150 19910507

Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: WINFIELD IND

Assignee(s):(std)**:** RYAN MEDICAL INC ; RYAN MIDICAL INC ; WINFIELD IND ; RAIAN MEDICAL INC ; WINFIELD MEDICAL

Assignee(s): WINFIELD MEDICAL SAN DIEGO CALIF US ; WINFIELD INDUSTRIES ; WINFIELD MEDICAL SAN DIEGO CALIF ; WINFIELD MEDICAL A CORP OF CA ; UINFUIIRUDO MEDEIKARU ; RYAN MEDICAL INC BRENTWOOD TENN US ; RYAN MEDICAL INC C O RICHARD BROWN ESQ KIMBALL PAR ; RYAN MEDICAL INC 7106 CROSSROADS BLVD SUITE 201 BR ; RYAN DANA WILLIAM ; RYAN DANA WM ; RYAN MEDICAL INC A CORP OF DE ; WINFIELD MEDICAL A CORP ; SMITHS MEDICAL ASD INC ; HINSCH ROBERT MILTON ; KAISER JAMES M ; MAXXIM MEDICAL INC ; MAXXIM MEDICAL INC A CORP OF DELAWARE ; MPS CAPITAL INC ; PORTEX INC

Inventor(s):(std)**:** DANA UIRIAMU RAIAN ; HINSCH ROBERT M ; HINSCH ROBERT MILTON ; JIEEMUSU EMU KAIZAA ; KAISER JAMES M ; RYAN DANA ; RYAN DANA W ; ROBAATO MIRUTON HAINSHIYU ; RYAN DANA WM

Inventor(s): ROBAATO MIRUTON HAINSHU ; ROBERT MILTON HINSCH ; RYAN DANA W FRANKLIN TN US ; RYAN DANA WILLIAM ; KAISER JAMES M BRENTWOOD TN US ; JAMES M KAISER ; JEEMUSU EMU KAIZAA ; HINSCH ROBERT M BRENTWOOD TN US ; DANA WM RYAN

Agent(s): HALFORDS IP; SMART AND BIGGAR

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

International class (IPC 8-9): A61B5/155 A61M25/06 A61M39/00 A61M5/158 A61M5/178 A61M5/31 A61M5/32 (Advanced/Invention); A61M5/178 A61M5/31 A61M5/32 (Advanced/Non-invention); A61B5/15 A61M5/178 A61M5/31 A61M5/32 (Core/Invention)

International class (IPC 1-7): A61B5/14 A61M25/06 A61M39/00 A61M5/00 A61M5/158 A61M5/178 A61M5/18 A61M5/31 A61M5/32 A61M5/50

CPC: A61M25/0631 A61M25/0637 A61B5/15003 A61B5/150351 A61B5/150389 A61B5/150519 A61B5/150572 A61B5/150732 A61B5/154 A61B5/150259 A61B5/15074 A61B5/150992 A61B5/155 A61M5/3243 A61B5/150656

European class: A61B5/14B8 A61M25/06D2 A61M25/06D3 A61M5/32C2H

US class: 128/763 600/576 601/199 601/283 604/110 604/116 604/177 604/192 604/195 604/198 604/199 604/240 604/263

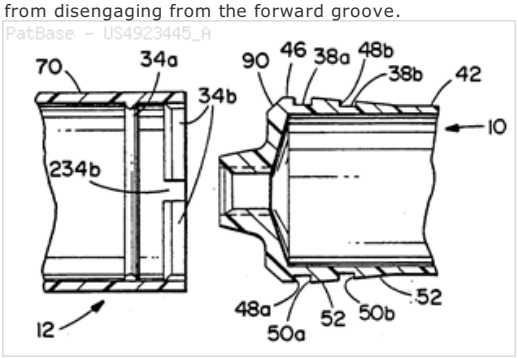
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US4596562 A, US4592744 A, US4576671 A, US4573976 A, US4573975 A, US4568336 A, US4559042 A, US4507117 A, US4485918 A, US4479791 A, US4425120 A, US4419098 A, US4418703 A, US4417887 A, US4411656 A, US4411647 A, US4398544 A, US4392856 A, US4389210 A, US4383530 A, US4373526 A, US4366817 A, US4362156 A, US4356822 A, US4349022 A, US4326519 A, US4281653 A, US4273123 A, US4266543 A, US4237882 A, US4186745 A, US4170993 A, US4168699 A, US4160450 A, US4140127 A, US4140108 A, US4139009 A, US4116196 A, US4085737 A, US4031077 A, US4026287 A, US4015600 A, US3969581 A, US3930499 A, US3910272 A, US3906946 A, US3906930 A, US3890971 A, US3886930 A, US3884229 A, US3877465 A, US3874367 A, US3848579 A, US3782383 A, US3780734 A, US3769975 A, US3734080 A, US3721241 A, US3670727 A, US3658061 A, US3640275 A, US3572334 A, US3536073 A, US3494392 A, US3494351 A, US3491757 A, US3487834 A, US3469581 A, US3464581 A, US3356089 A, US3329146 A, US3314428 A, US3306290 A, US3304934 A, US3150661 A, US3148680 A, US3073306 A, US3073301 A, US3064648 A, US3055361 A, US3046985 A, US3043304 A, US3021942 A, US2925083 A, US2888924 A, US2888923 A, US2847995 A, US2740404 A, US2725058 A, US2587717 A, US2571683 A, US2571653 A, US2290857 A, US2273211 A, US1757680 A, GB2183484 A1, EP0322129 A2, EP0250104 A1, EP0186232 A1,

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Abstract:
Source: US4923445A Improved shielded **medical devices** which minimize accidental needlesticks of the skin by an exposed contaminated needle are provided. The **medical devices** include a hollow inner tube body having at least two circumferential grooves on the outside thereof, and a slightly larger diameter hollow shield which is slidable relative to the inner tube. A first circumferential protrusion which is located at the rearward end of the shield yieldingly engages the rearward groove during use of the **medical device** and thereby permits normal use of an exposed needle. Thereafter the shield may be moved along the longitudinal axis of the inner tube to a second position where the shield covers the now-contaminated needle. In the shielded second position a second circumferential protrusion which is located in forward proximity to the first protrusion engages the forward groove of the inner tube. The first protrusion meanwhile engages the outer surface of the inner tube and provides additional stability and strength against axial and torque forces. The inner tube has a shoulder located forward of the forward groove to help prevent the second circumferential protrusion of the shield from disengaging from the forward groove.



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Title: Balloon catheter with distal guide wire lumen

Priority:

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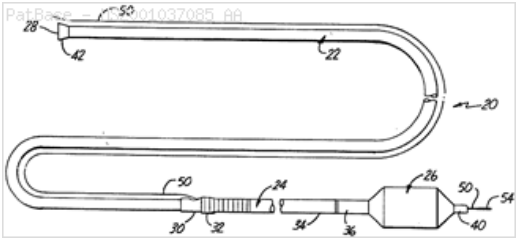
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Abstract:
Source: US2001037085A An over-the-wire balloon dilatation catheter has a stainless steel hypotube catheter shaft, an intermediate sleeve section bonded to the shaft and a distal balloon section **connected** to the sleeve section. The sleeve section is forced from relatively flexible polymer materials and includes an inner core tube which defines a guide wire lumen extending only through a distal portion of the catheter (including its sleeve and balloon sections) to facilitate fast balloon catheter exchanges. A distal end of the hypotube shaft is crimped laterally and the core tube is nested and bonded within the crimp to provide a proximal outlet for the guide wire lumen. The hypotube shaft provides an inflation lumen for the balloon, with the inflation lumen being continued as an annular inflation lumen through the sleeve section where an outer sleeve is bonded about the core tube and extends from the distal end of the hypotube shaft to the balloon section. A kink-resistant coil structure extends distally from the distal end of the hypotube shaft to provide a gradual change in stiffness along the length of the catheter from the relatively stiff hypotube shaft to the relatively flexible distal portion of the catheter.



134) Family number: 34548679 (US2001017102A)

Title: METHOD AND **APPARATUS** FOR CONTROLLED PLACEMENT OF A POLYMER COMPOSITION INTO A WEB

Priority:

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Family:

Publication number	Publication date	Application number	Application date
AT191523 E	20000415	AT19960920271T	19960517
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Probable Assignee: NEXTEC APPLICATIONS INC

Assignee(s):(std)**:** FABRIC COATING CORP ; SCHMERMUND GEORGE ; SILI TEX INC ; NEXTEC APPLIC INC ; NEXTEC APPLICATIONS INC ; VIAGENE INC ; CALDWELL J MICHAEL ; CALDWELL JAMES MICHAEL ; CHIRON CORP

Assignee(s): ELLMAN PETER ; NEKUSUTETSUKU APURIKEESHONZU INC ; SILICON VALLEY BANK

Inventor(s):(std)**:** CALDWELL J MICHAEL ; CALDWELL JAMES M ; CALDWELL MICHAEL ; ELLMAN PETER ; GRUBER HARRY E ; JOLLY DOUGLAS J ; LAIKIND PAUL K ; RESPESS JAMES G ; SCHMERMUND GEORGE ; CALDWELL JAMES MICHAEL ; JAMES MICHAEL CALDWELL

Inventor(s): PAUL K LAIKIND ; PETER ELLMAN ; KOORUDOERU JEIMUZU MAIKERU ; HARRY E GRUBER ; JAMES G RESPESS ; GEORGE SCHMERMUND ; DOUGLAS J JOLLY

Agent(s): FB RICE; FB RICE PTY LTD; RICHES MCKENZIE AND HERBERT LLP; REINHOLD COHN AND PARTNERS

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

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B05C11/02 (Core/Non-invention)

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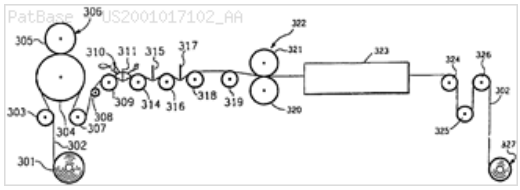
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Abstract:
Source: US2001017102A The present invention relates to an **apparatus** for controlling the placement of a curable, shear-thinnable polymer composition into a porous web. The **apparatus** comprises means for applying tension, means for applying the polymer composition to one surface of the tensioned web, and means for shear thinning the composition and placing it into the web to encapsulate at least some of the structural elements of the web, leaving most of the interstitial spaces open. A preferred **apparatus** includes one or more process heads that has mounted thereto a rigid knife blade for engagement with the web. The knife blade is movable vertically and rotationally. The process head is also movable horizontally along the path of the web. The invention also relates to an **apparatus** for selectively placing the polymer composition in a substantially continuous region extending through the web so that the polymer composition fills the interstitial spaces and adheres adjacent structural elements of the web in the region. In the areas of the web above and below the filled region, at least some of the structural elements are encapsulated and most of the interstitial spaces are open.


PatBase US2001017102_AA
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135) Family number: 15160357 (US4913699A)

Title: DISPOSABLE NEEDLELESS **INJECTION** SYSTEM

Priority: AU19890034408 19890310 CA19890593463 19890313 EP19890903896 19890310 WO1989US01019 19890310 US19880167337 19880314

Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: NATIONAL MEDICAL PRODUCTS INC

Assignee(s):(std)**:** NAT MEDICAL PRODUCTS INC ; NATIONAL MEDICAL PRODUCTS INC ; PARSONS JAMES S ; PARSONS JAMES STUART

Assignee(s): JAMES STUART PARSONS ; NATIONAL MEDICAL PRODUCTS INC A CORP OF CA ; NATIONAL MEDICAL PRODUCTS INC IRVINE CALIF ; NATIONAL MEDICAL PRODUCTS INC IRVINE CALIF US ; PAASONZU JEIMUZU SUCHUWAATO

Inventor(s):(std)**:** JAMES STUART PARSONS ; PARSONS JAMES S ; PARSONS JAMES STUART

Inventor(s): PARSONS JAMES STUART LAGUNA NIGUEL CA 92677 ; PARSONS JAMES STUART LAGUNA NIGUEL CA 92677 US ; PAASONZU JEIMUZU SUCHUWAATO

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; COLLISON AND CO; BORDEN LADNER GERVAIS LLP

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

International class (IPC 8-9): A61J1/00 A61J1/20 A61M5/20 A61M5/30 A61M5/307 (Advanced/Invention);
A61M5/178 A61M5/20 (Advanced/Non-invention);
A61J1/00 A61J1/14 A61M5/30 (Core/Invention);
A61M5/178 A61M5/20 (Core/Non-invention)

International class (IPC 1-7): A61J1/20 A61M5/30 A61M5/307

CPC: A61J1/2096 A61M5/1782 A61M5/2053 A61M5/30 A61J1/201 A61J1/2055 A61J1/2062

European class: A61J1/00M A61J1/20 A61J1/20F A61M5/30 K61J1/00M6 K61J1/20A2A K61J1/20A6B K61J1/20A6C1 K61J1/20F K61M5/178F K61M5/20F

US class: 604/68 604/70 D24/112

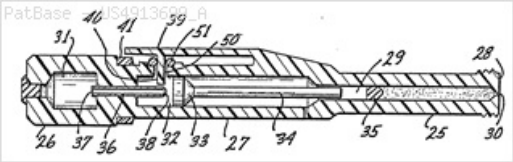
Classification Explorer

Cited documents: US4680027 A, US4596556 A, US4592742 A, US4518385 A, US4475905 A, US4421508 A, US4403989 A, US4403609 A, US4400172 A, US4342310 A, US4329988 A, US4301795 A, US4128098 A, US4124024 A, US4103684 A, US4089334 A, US4059107 A, US4031889 A, US4004575 A, US3945383 A, US3945379 A, US3933155 A, US3908651 A, US3859996 A, US3853125 A, US3815594 A, US3805783 A, US3788315 A, US3714943 A, US3695266 A, US3688765 A, US3668765 A, US3464412 A, US3461867 A, US3378007 A, US3292622 A, US3292621 A, US3202151 A, US3138157 A, US3131692 A, US3115133 A, US3057349 A, US3045659 A, US2821981 A, US2821193 A, US2800903 A, US2764977 A, US2737946 A, US2704543 A, US2699166 A, US2691374 A, US2680439 A, US2650591 A, US2645223 A, US2635601 A, US2605763 A, US2547099 A, US24419 A, EP0317298 A2, EP0258913 A2, AU2563988 A1,

Forward Citations: WO9901168, WO9815307, WO9713537, WO9407554, WO14164754, WO11091543, WO03066143, WO03041768, WO03035148, WO03035148, WO02083211, WO0205878, WO0197884, WO0176664, WO0164268, WO0029048, WO0023133, WO0010630, WO0010630, USRE43824, USD428650, USD420739, US9808582, US9750881, US9744302, US9737670, US9707354, US9662449, US9629960, US9629959, US9446195, US9364611, US9364610, US9358338, US9333309, US9265888, US9220660, US9180259, US9044546, US8998881, US8945063, US8915889, US8758299, US8747357, US8734393, US8734384, US8647299, US8604076, US8591457, US8540665, US8343130, US8308697, US8221347, US8187226, US8162886, US8123718, US8105272, US8070714, US7931640, US7887506, US7854720, US7806867, US7744563, US7717874, US7645265, US7563244, US7547293, US7442182, US7347851, US7320677, US7156257, US7108675, US7108675, US7029457, US7018356, US6974446, US6932789, US6913592, US6824526, US6802826, US6783509, US6770054, US6755220, US6689093, US6673038, US6645170, US6641554, US6626871, US6613011, US6613010, US6610042, US6607510, US6599264, US6585685, US6558348, US6500239, US6474369, US6471669, US6447475, US6309371, US6302160, US6258062, US6223786, US6210359, US6123684, US6080130, US6063054, US6063053, US5993412, US5954232, US5938637, US5921967, US5893397, US5891086, US5875976, US5851198, US5845811, US5840061, US5782802, US5769138, US5730723, US5704911, US5569189, US5520639, US5499972, US5480381, US5453096, US5383851, US5334144, US5279576, US5274157, US5009637, US2016199580, US2011257624, US2010152655, US2010130930, US2010121262, US2010069846, US2010069831, US2010004621, US2009234276, US2009099552, US2008228143, US2008208114, US2008154189, US2008147131, US2008086079, US2007173770, US2007055214, US2007055200, US2007055199, US2007052139, US2007043319, US2007027428, US2006287631, US2006041219, US2005267403, US2005192530, US2005119608, US2005033234, US2004220525, US2004210207, US2004084555, US2004052773, US2004024350, US2003226845, US2003139707, US2003088207, US2002058907, JP2015213782, JP2012183337, GB2504602, GB2410190, FR2810554, EP3058972, EP3000462, EP2829265, EP2756756, EP2676691, EP2092947, EP1296730, EP1231961, EP1034809, EP1033143, EP0888790, EP0595508, DE19701494, DE10252917, DE10034270, BG64726, AU754231, AU718064,

Abstract:

Source: US4913699A A needleless **injector** **device** includes an integral unit that is dimensioned and arranged to be grasped in the hand of a user, loaded with a selected dosage, and held proximate the skin in order to **inject** the selected dosage in a high pressure jet sufficient to pass the selected dosage through the skin for **injection** purposes, the unit having a barrel portion, a gas storage portion, and an intermediate portion. A trigger operates a release mechanism to release compressed gas from a storage compartment to act upon a piston and drive a plunger that ejects the selected dosage of medication through an aperture in the discharge end of the barrel portion, the piston face being larger than the plunger face to increase pressure. A dose dispenser combines with the **injection** **device** in a system adapted for use with an insulin or other conventional vial and the dose dispenser may include a vial adapter or the combination of a vial **coupler** and a transporter/loader **device** designed to pierce the self-sealing lid on the vial and to facilitate more precise dosage transfers.



136) Family number: 42244377 (US4888113A)

Title: MAGNETIC WATER TREATMENT **DEVICE**

Priority:

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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: GRADIENT TECHNOLOGIES LLC

Assignee(s):(std)**:** HOLCOMB ROBERT R ; HOLCOMB ROBERT RAY ; HOLCOMB TECH INC ; ROBERT R HOLCOMB ; ROBERT R ; HOLCOMB HEALTHCARE SERVICES LL

Assignee(s): HOLCOMB HEALTHCARE SERVICES LLC ; NEWAWK LLC A DELAWARE LTD ; SGT TECHNOLOGY HOLDINGS LLC ; WATER RESOURCES TECHNOLOGY INC ; NEWAWK LLC A DELAWARE LIABILITY CO LTD ; WILSON SPENCE L ; ROBERT RAY HOLCOMB ; HOLCOMB TECHNOLOGY INC ; ACU PAIN LLC ; AMWAY CORP ; DEMETER SYSTEMS LLC ; GRADIENT TECHNOLOGIES LLC

Inventor(s):(std)**:** HALCOMB ROBERT R ; HOLCOMB ROBERT R ; HOLCOMB ROBERT RAY

Inventor(s): ROBERT R HALCOMB ; ROBERT R HOLCOMB ; ROBERT RAY HOLCOMB

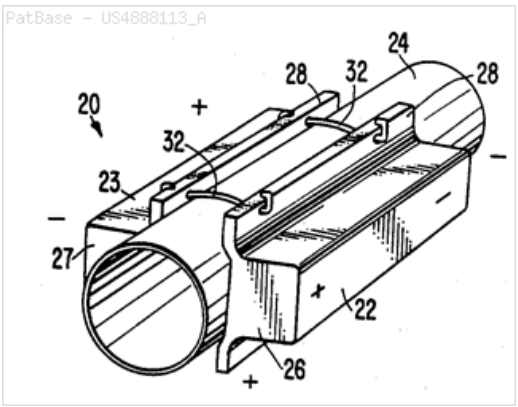
Agent(s): CALLINANS; FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD; BLAKE CASSELS AND GRAYDON LLP; KIRBY EADES GALE BAKER

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

International class (IPC 8-9): A61N1/00 A61N1/04 A61N1/08 A61N1/18 A61N1/34 A61N1/36 A61N2/00 A61N2/02 A61N2/04 A61N2/06 A61N2/08 C02F1/48 (Advanced/Invention);
A61N1/18 A61N1/34 (Advanced/Non-invention);

	A61N1/04 A61N1/18 A61N1/32 A61N2/00 C02F1/48 (Core/Invention); A61N (Subclass/Invention)
International class (IPC 1-7):	A61B17/52 A61N A61N1/00 A61N1/04 A61N1/08 A61N1/34 A61N1/36 A61N1/42 A61N2/00 A61N2/02 A61N2/04 A61N2/08 C02F1/48 G01N27/72 G01R19/00 H01F7/00
CPC:	A61N2/00 A61N2/008 A61N2/02 A61N2/06 C02F1/482 C02F1/485 C02F2303/22
European class:	A61N2/00 A61N2/00T4 A61N2/02 A61N2/06 C02F1/48A2 C02F1/48E2 M02F303/22
US class:	210/222 210/695 55/100 600/13 600/15 600/9 607/3 96/1
Classification Explorer	
Cited documents:	WO9324175 A1, WO9115263 A1, WO8503649 A1, US93456886, US84490492, US6205356 BA, US6042531 A, US60001012 P, US60000318 P, US60000317 P, US60000300 P, US5941902 A, US5312321 A, US4765310 A, US4605498 A, US4587956 A, US4572145 A, US4556051 A, US4519919 A, US4509219 A, US4489711 A, US4480596 A, US4459532 A, US4454883 A, US4431002 A, US4367143 A, US4330892 A, US4293410 A, US4265755 A, US4265754 A, US4233965 A, US4232680 A, US4210535 A, US4162672 A, US4105017 A, US3943912 A, US3921620 A, US3822708 A, US3228878 A, US299995 P2, US272904 A, US17183788, US1551229 A, SU787042 T, SU676288 T, SU663412 T, GB429944 A, GB2196855 A1, GB1479734 A, FR2603811 A1, FR2595942 A1, FR2370483 A1, FR2308384 A1, EP0428474 A2, EP0334141 A1, EP0244784 A2, EP0100050 A2, EP0081109 A2, DE3828043 A1, DE3402838 A1, DE3128263 A1, CA1155086 A1,
Forward Citations:	WO9912605, WO9900158, WO9855219, WO9702861, WO9700639, WO9319939, WO9319939, WO9210430, WO9203384, WO9101775, WO16200818, WO15063534, WO10129997, WO09046345, WO09033144, WO09033144, WO08103977, WO07121360, WO07121360, WO07089615, WO06050279, WO06050279, WO05092440, WO05025672, WO05002668, WO03103769, WO02056963, WO0121252, WO0110375, WO0053259, WO0045692, WO0045692, WO0003951, WO0003951, USD759803, USD561345, USD511198, USD500118, USD475117, USD468796, USD419638, US9849299, US9821169, US9795803, US9789330, US9764154, US9724534, US9681820, US9623264, US9597499, US9597498, US9550060, US9492679, US9486639, US9480854, US9387339, US9381374, US9364287, US9358388, US9352167, US9345891, US9339645, US9308386, US9289942, US9283371, US9272157, US9265942, US9132277, US9113985, US9095694, US9050463, US9031792, US8977354, US8974653, US8965482, US8956274, US8956273, US8932196, US8929979, US8897871, US8892200, US8886304, US8882758, US8864641, US8845508, US8827886, US8805519, US8795148, US8788060, US8768454, US8764620, US8761891, US8723628, US8718758, US8657731, US8615293, US8613695, US8606361, US8585569, US8523754, US8523753, US8517908, US8506506, US8483832, US8460167, US8328857, US8308784, US8267850, US8265910, US8246529, US8167921, US8149526, US8121696, US8105228, US8088280, US8052591, US8025687, US7988613, US7983762, US7966059, US7963903, US7857746, US7848035, US7824324, US7819794, US7801601, US7783348, US7774046, US7706885, US7695504, US7621261, US7608035, US7575589, US7560058, US7534255, US7479101, US7399270, US7344555, US7316922, US7313429, US7309348, US7303578, US7286034, US7276020, US7239910, US7186209, US7107894, US7015254, US7008370, US7004153, US6991594, US6975197, US6959640, US6940379, US6918922, US6899667, US6846379, US6830544, US6827681, US6819210, US6776753, US6773391, US6741889, US6712753, US6630879, US6623419, US6607648, US6599419, US6592509, US6561968, US6500110, US6461288, US6416458, US6402678, US6398712, US6383264, US6330467, US6322491, US6317630, US6287614, US6280376, US6245006, US6205356, US6149577, US6083149, US6068768, US6042531, US6007476, US5934902, US5880661, US5804067, US5782743, US5707333, US5700376, US5537363, US5312321, US5306887, US5295832, US5254247, US5198106, US5173169, US5139675, US5130032, US5113751, US5078870, US4956084, US2014324119, US2014114116, US2014031605, US2013303827, US2013204073, US2013001085, US2012118508, US2012108884, US2011202048, US2011144723, US2011102916, US2011098779, US2011065977, US2011065976, US2011060266, US2011034782, US2011015687, US2011004450, US2011004261, US2010331602, US2010298905, US2010298624, US2010298623, US2010286470, US2010286468, US2010268299, US2010256439, US2010256438, US2010256436, US2010211136, US2010198102, US2010185042, US2010179531, US2010179455, US2010152820, US2010105977, US2010070006, US2010067128, US2010057655, US2010048981, US2009254154, US2009247808, US2009240096, US2009234243, US2009216301, US2009216068, US2009206020, US2009156884, US2009099405, US2009093669, US2008306418, US2008288035, US2008281307, US2008221211, US2008207985, US2008188779, US2008125836, US2008111656, US2008103350, US2008076836, US2008070229, US2008058905, US2008058881, US2008046053, US2008016677, US2008004565, US2007282156, US2007276440, US2007260291, US2007260136, US2007260107, US2007260106, US2007208209, US2007179571, US2007179570, US2007084087, US2007036771, US2007036770, US2007027355, US2007027354, US2007027353, US2006253177, US2006241333, US2006194884, US2006094924, US2006061445, US2006036299, US2005203595, US2005187595, US2005182287, US2005113628, US2005107851, US2005080459, US2005080315, US2005027158, US2005011363, US2004260367, US2004250799, US2004249262, US2004213858, US2004193002, US2004193000, US2004153130, US2004138727, US2004132002, US2004064153, US2004014199, US2003228399, US2003226794, US2003226447, US2003216797, US2003144712, US2003137380, US2003109906, US2003023159, US2002156340, US2002100486, US2001027219, RU2557907, JP5491654, JP3505175, JP2014083429, JP2013540015, JP2008093453, JP2007014790, GB2455405, FR2798843, FR2721015, FR2702762, FR2675138, ES2040624, EP2489405, EP2489404, EP2489403, EP2266663, EP2227294, EP2111169, EP2111169, EP1916013, EP1839705, EP1363701, EP1069539, EP1030712, EP0865311, EP0778243, EP0616977, EP0533548, EP0428474, DE102010028115, DE102010028115, CN104190000, CN104190000, AU755495, AU729600,

Abstract:
Source: US4888113A A magnetic water treatment **device** for the treatment of water in a non-ferrous pipe is provided. The **device** is constructed of an elongated aluminum housing which supports two permanent bar magnets oriented such that the positive pole of one magnet is oriented to one end of the **device** and the positive pole of the other magnet is oriented to the other end of the **device**. The magnets are so housed in the aluminum die-cast housing so that they lie parallel and directly opposing one another across the non-ferrous pipe.



137) Family number: 15112578 (US4990075A)

Title: REACTION VESSEL FOR PERFORMING SEQUENTIAL ANALYTICAL ASSAYS

Priority: CA19890593628 19890314 CA19902018323 19900605 DD19900342638 19900709 US19910638101 19910104 US19910774362 19911008 US19880179843 19880411 US19890378039 19890711

Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: SIEMENS HEALTHCARE DIAGNOSTICS INC

Assignee(s):(std)**:** MILES INC ; MILES INC US ; BAYER AG

Assignee(s): BAYER CORP ; MESSENGER LOWRY J ; BAIERU CORP ; SIEMENS HEALTHCARE DIAGNOSTICS INC ; MILES INC ELKHART INDIANA A CORP OF INDIANA ; WOGOMAN FRANK W ; NELSON CHRISTINE D ; YIP KIN FAI ; MILES INC A CORP OF IN ; MILES INC ELKHART IND US

Inventor(s):(std)**:** KIN FAI YIP ; KINNFUAI ITSUPU ; KURISUTEIN DEI NERUSON ; LOWRY J MESSENGER ; LOWRY J MESSENGER US ; MESSENGER LOWRY J ; NELSON CHRISTINE D ; CHRISTINE D NELSON ; FRANK W WOGOMAN ; FURANKU DABURIYU UOGOMAN ; ROORII JIEI METSUSENJIYAA ; SIDDONS GEORGE ; WOGOMAN FRANK W ; YIP KIN FAI ; YIP KIN FAI CN ; YIP KIN FAI US

Inventor(s): WOGOMAN FRANK W SOUTH BEND IN 46615 US ; FURANKU DABURYU UOGOMAN ; ROORII JEI METSUSENJAA

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; OSLER HOSKIN AND HARCOURT LLP

Designated states: AT BE CH DE DK ES FR GB GR IT LI LU NL SE

International class (IPC 8-9): B01L3/00 G01N21/07 G01N31/22 G01N33/48 G01N33/53 G01N33/536 G01N33/543 G01N33/546 G01N33/58 G01N33/72 G01N35/02 (Advanced/Invention);
G01N31/22 G01N33/48 G01N33/536 G01N35/02 (Advanced/Non-invention);
B01L3/00 G01N21/03 G01N31/22 G01N33/48 G01N33/53 G01N33/536 G01N33/543 G01N33/58 G01N33/72 G01N35/02 (Core/Invention)

International class (IPC 1-7): B01L3/00 G01N21/01 G01N21/03 G01N21/07 G01N31/22 G01N33/48 G01N33/52 G01N33/53 G01N33/536 G01N33/543 G01N33/546 G01N33/58 G01N33/72 G01N35/02 G01N35/08

CPC: B01L2200/0621 B01L2400/0457 Y10S436/807 Y10S435/81 Y10S436/805 Y10S436/808 B01L3/502 G01N33/723 G01N33/726 G01N33/54366 G01N21/07 G01N33/5302 G01N33/5304 Y10T436/111666

European class: B01L3/502 G01N21/07 G01N33/53B G01N33/53B2 G01N33/543K G01N33/72B2 G01N33/72B6 L01L200/06D L01L400/04F16

US class: 422/102 422/417 422/430 422/503 422/55 422/57 422/58 422/61 422/72 422/99 435/287.2 435/287.9 435/288.5 435/299 435/312 435/4 435/810 436/165 436/169 436/45 436/501 436/518 436/523 436/526 436/527 436/528 436/531 436/533 436/536 436/67 436/805 436/807 436/808

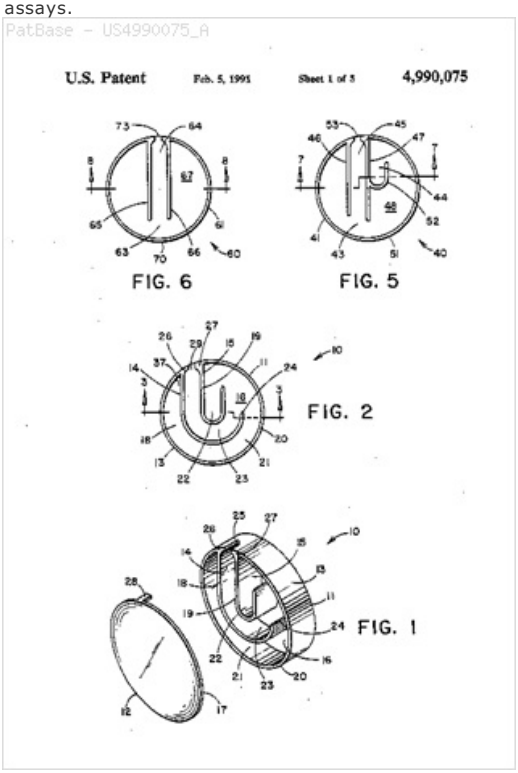
Classification Explorer

Cited documents: US4990075 A, US4977078 A, US4970171 A, US4883763 A, US4780285 A, US4690801 A, US4673653 A, JPS60238760, JP60238760 A2, FR2589240 A1, FR2409514 A1, EP0339277 A1, EP0213653 A1, EP0197865 A1, EP0183627 A2, DE3706718 A1, AU603290 B2, AU5200090 A1, AU5041379 A1, AU5041279 A1,

Forward Citations: WO9947261, WO9935483, WO9813684, WO9746318, WO9102589, WO18005464, WO17005124, WO10009459, WO09057267, WO09044552, WO08095914, WO08023579, WO07049611, WO07049607, WO05000731, WO05000731, WO02087762, WO0076642, WO0076642, USD768872, USD735926, USD677395, USD672467, USD667561, USD638951, USD638550, USD579037, USD514227, USD510141, US9885715, US9772291, US9757725, US9726680, US9725762, US9575058, US9460263, US9404912, US9366666, US9334528, US9316655, US9303286, US9182388, US9182353, US9180449, US9176126, US9168523, US9108200, US9095833, US9075046, US9067209, US9067205, US9062342, US8956879, US8931331, US8883518, US8862448, US8846380, US8841076, US8834792, US8815181, US8802036, US8778665, US8778283, US8741230, US8679407, US8669047, US8667833, US8617490, US8486715, US8431415, US8415140, US8399259, US8389209, US8367023, US8303912, US8298497, US8283155, US8263414, US8158430, US8148153, US8092759, US8080409, US8007999, US8003051, US7960132, US7888125, US7790470, US7691255, US7646474, US7638097, US7635594, US7625761, US7427510, US7384798, US7264780, US7125161, US7125161, US7052880, US6921513, US6808889, US6746649, US6705754, US6656428, US6582912, US6168956, US6120733, US6082185, US6063341, US6050719,

US6033914, US6017767, US6015531, US6002475, US5998220, US5919711, US5916522, US5877028, US5869345, US5846838, US5817522, US5807747, US5607863, US5556765, US5501982, US5470151, US5468648, US5457053, US5439650, US5397711, US5385847, US5372948, US5326166, US5326165, US5304350, US5272093, US5252493, US5238810, US5225163, US5192503, US5162237, US5147607, US5139742, US2014308689, US2014127828, US2013196360, US2011117607, US2011104731, US2011093249, US2010266456, US2010240124, US2010196999, US2010151510, US2009286330, US2009263280, US2009219514, US2009162833, US2009093068, US2009093012, US2008153714, US2008113391, US2008102537, US2007261851, US2007202493, US2007154351, US2007048795, US2007036684, US2006264781, US2006264779, US2006263902, US2006147351, US2006078471, US2006035271, US2006024201, US2005095726, US2005023765, US2005014275, US2004202580, US2004141880, US2004114456, US2004018575, US2004018120, US2003175828, US2001036423, TWI414771, JP6050968, JP5837262, JP5017451, JP4934147, JP4904507, JP3264989, JP2015524566, JP2015114197, JP2013208612, JP2013117527, JP2010528315, JP2009518636, JP2009092643, JP2007114162, JP2005308731, FR2773218, FR2749663, EP3162440, EP3141901, EP3047908, EP3047907, EP2881743, EP2047909, EP2047909, EP1997888, EP1956358, EP1921439, EP1188482, EP1042663, EP0933126, EP0884104, EP0779513, EP0703453, EP0693560, EP0656541, EP0616216, EP0562392, EP0469419, EP0407827, DE19726268, DE102014019526, DE102014019526, CN105013546, CN102127596, CN102127596, AU617947,

Abstract:
Source: US4990075A Analytical reagent reaction vessel and method for performing sequential analytical assay procedures to determine an analyte in a liquid test sample. The reaction vessel is in the form of a closed container having a substantially horizontal axis of rotation and incorporated with one or more analytical reagents for performing a desired analytical assay procedure. The reaction vessel is designed to provide free gravitational movement of a liquid test sample disposed therein. The analytical reagents are incorporated into the reaction vessel such that they are contacted with a liquid test sample in a desired order or sequence. A liquid test sample disposed in the reaction vessel is capable of being manipulated therein by rotating the reaction vessel about the horizontal axis wherein the liquid test sample is transported by gravity. Accordingly, a liquid test sample can be sequentially contacted with the analytical reagents, and one or more of a detectable response can be measured, without the need for additional external manipulative steps or complicated instruments to complete the assay. The reaction vessel is particularly useful for performing immunoturbidimetric and immunometric assays.



138) Family number: 30378094 (US5275299A)

Title: CLOSURE **DEVICE** FOR AN IN PARTICULAR EVACUABLE CYLINDRICAL HOUSING

Priority:
AT19880000972 19880415 AT19880003141 19881223 CA19890596785 19890414
DE19893990356 19890404 US19930131470 19931004 WO1989AT00032 19890404
US19920963941 19921020 US19900573008 19901206 US19940332389 19941028

Family:

Publication number	Publication date	Application number	Application date
AT314188 A	19900615	AT19880003141	19881223
AT391951 B	19901227	AT19880003141	19881223
AT403369 B	19980126	AT19880000972	19880415
AT97085 E	19931115	AT19890903957T	19890404
AT97288 A	19970615	AT19880000972	19880415
AU198933050 A1	19891019	AU19890033050	19890414
AU198934125 A1	19891103	AU19890034125	19890404
AU626849 B2	19920813	AU19890033050	19890414
CA1322185 A1	19930914	CA19890596785	19890414
DE58906179 D1	19931216	DE19895006179	19890404
DE8915637 U1	19901129	DE19890015637U	19890404
EP0419490 A1	19910403	EP19890903957	19890404
EP0419490 B1	19931110	EP19890903957	19890404
HK30497 A	19970321	HK19970000304	19970313
JP2823914 B2	19981111	JP19890504021	19890404
JP3505320 T2	19911121	JP19890504021T	19890404
RU2062737 C1	19960627	SU19894831966	19890404
US5275299 A	19940104	US19920963941	19921020
US5495958 A	19960305	US19940332389	19941028
US5522518 A	19960604	US19930131470	19931004
WO8909735 A1	19891019	WO1989AT00032	19890404
ZA8902752 A	19891227	ZA19890002752	19890414

Probable Assignee: GREINER AND SOEHNE C A

Assignee(s):(std)**:** GREINER AND SOEHNE C A ; GREINER C A AND SOEHNE GES M B H ; TS A GRAJNER UND ZENE GMBKH ; C A GREINER AND SOEHNE GESELLSCHAFT M B H

Assignee(s): C A GREINER AND SOEHNE GESELLSCHAFT MBH ; C A GREINER AND SOHNE GES MBH ; C A GREINER AND SOHNE GESELLSCHAFT M B H ; C A GREINER AND SOEHNE GES M B H KREMSMUENSTER OBE ; C A GREINER AND SOEHNE GES M B H KREMSMUENSTER OBEROESTERREICH AT ; C A GREINER AND SOEHNE GES MBH ; CA GREINER AND SOHNE GES MBH ; GREINER C A AND SOEHNE GESELLSCHAFT M B H ; KONRAD FRANZ ; PAKANECZ GUNTHER ; LEDERER MANFRED ; CA GREINER AND SOEHNE GES MBH ; GREINER CA AND SOEHNE GES MBH

Inventor(s):(std)**:** FRANTS KONRAD ; FRANZ KONRAD ; FRANZ KONRAD ING ; GUENTHER PAKANECZ ; GUNTHER PAKANECZ ; GYUNTER PAKANETS ; ING FRANZ KONRAD ; KONRAD FRANZ ; KONRAD FRANZ ING ; LEDERER MANFRED ; MANFRED LEDERER ; PAKANECZ GUENTHER ; PAKANECZ GUNTHER

Inventor(s): PAKANECZ GUENTHER A 4550 KREMSMUENSTER AT ; LEDERER MANFRED A 4550 KREMSMUENSTER AT ; KONRAD FRANZ A 4844 REGAU AT

Agent(s): FB RICE; FB RICE PTY LTD; RICHES MCKENZIE AND HERBERT LLP

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

International class (IPC 8-9): A61J1/05 A61J1/06 B01L3/14 B65D41/28 B65D51/00 B65D51/18 (Advanced/Invention);
A61J1/05 B65D51/18 (Advanced/Non-invention);
A61J1/05 B65D41/02 B65D51/00 B65D51/18 (Core/Invention);
B65D G01N (Subclass/Invention)

International class (IPC 1-7): A61J1/00 A61J1/05 A61J1/06 B01L3/00 B01L3/14 B65D39/16 B65D41/04 B65D41/28 B65D47/38 B65D51/18 B65D53/00 G01N33/48

CPC: Y10S215/03 B65D51/002

European class: B65D51/00B

US class: 215/12.2 215/247 215/261 215/274 215/320 215/329 215/332 215/341 215/354 215/356 215/360 215/364 215/DIG.3

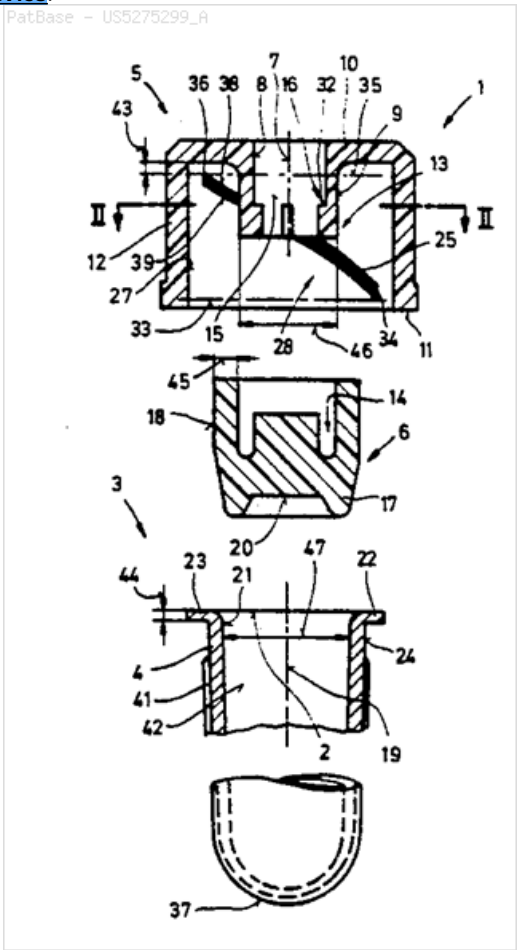
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Cited documents: US5213224 A, US5000804 A, US4919985 A, US4772558 A, US4652429 A, US4646925 A, US4637520 A, US4635807 A, US4583652 A, US4569457 A, US4465200 A, US4387821 A, US4360114 A, US4340148 A, US4230231 A, US4205754 A, US4089432 A, US3991895 A, US3937211 A, US3709395 A, US3578223 A, US3088615 A, US3059798 A, US3017050 A, US2934231 A, US2748969 A, US2696319 A, US1989218 A, US1037272 A, JP62050729 B4, JP60129353 B4, JP57017747 A2, GB2025381 A1, EP0257498 A2, EP0150172 A2, EP0129029 B1, EP0129029 A1, EP0102851 A2, DK142679 B, DK142679 A, DE580962 A, DE3119908 C2, DE3119908 A1, DE1432167 A1, CH580962, AU529500 B2, AU523797 B2, AU502824 B2, AT379069 B,

Forward Citations: WO9836260, WO16080231, WO15154115, WO14033619, WO14033619, WO0038566, USRE45194, US9903782, US9878101, US9863042, US9764093, US9664626, US9662450, US9572526, US9554968, US9545360, US9458536, US9399218, US9383054, US9272095, US9022079, US8936168, US8834954, US8806920, US8685347, US8678212, US8534510, US8512796, US8460620, US8448800, US8387811, US8387810, US8132600, US8057762, US8052944, US7985188, US7954521, US7824922, US7726498, US7691332, US7198757, US7188734, US7118538, US7097057, US6957745, US6945417, US6904662, US6769564, US6763961, US6695829, US6681946, US6662957, US6635043, US6626309, US6610041, US6571837, US6562298, US6524295, US6510957, US6382442, US6382438, US6378714, US6378576, US6375022, US6328174, US6227392, US6209738, US6189580, US6153238, US6129125, US6029836, US6017317, US5954240, US5954104, US5924584, US5915583, US5891129, US5862948, US5856194, US5813554, US5795784, US5718348, US5699923, US5641064, US5494170, US5377854, US5361921, US5294011, US2015018715, US2013327769, US2013018278, US2011095058, US2011052768, US2010298738, US2010190215, US2009308184, US2009208966, US2008251490, US2008251489, US2008223815, US2007102344, US2007023434, US2006253103, US2006231519, US2006175280, US2006015037, US2004217081, US2004217046, US2004129343, US2004118803, US2004031770, US2004004053, US2003177629, US2002121496, GB2487899, GB2402385, GB2402385, EP2277625, EP1921018, EP1375376, EP0445707, DE4103459, DE20106406, AU746794, AU646241,

Abstract:

Source: US5275299A PCT No. PCT/AT89/00032 Sec. 371 Date Dec. 6, 1990 Sec. 102(e) Date Dec. 6, 1990 PCT Filed Apr. 4, 1989 PCT Pub. No. WO89/09735 PCT Pub. Date Oct. 19, 1989.A closure **device** for a front side of an in particular evacuable cylindrical housing comprises a cap surrounding said front side of said housing with a front wall in which a borehole is arranged. A sealing **device** is arranged between the borehole and an internal cavity of the cylindrical housing. The cap is **connected** to the sealing **device** and/or the cylindrical housing by means of a **coupling** **device**.



139) Family number: 18380477 (US4978338A)

Title: Implantable infusion **apparatus**

Priority: CA19890597259 19890420 EP19890905360 19890421 EP19940103085 19890421 WO1989US01719 19890421 US19880184244 19880421 US19880184244 19880620

Family:

Publication number	Publication date	Application number	Application date
AT115415 E	19941215	AT19890905360T	19890421
AU198935350 A1	19891124	AU19890035350	19890421
AU628054 B2	19920910	AU19890035350	19890421
CA1327927 A1	19940322	CA19890597259	19890420
DE68920049 D1	19950126	DE19896020049	19890421
DE68920049 T2	19950720	DE19896020049T	19890421
DE68928626 D1	19980430	DE19896028626	19890421
DE68928626 T2	19980716	DE19896028626T	19890421
DE8916263 U1	19960523	DE19890016263U	19890421
EP0446202 A1	19910918	EP19890905360	19890421
EP0446202 B1	19941214	EP19890905360	19890421
EP0612535 A1	19940831	EP19940103085	19890421
EP0612535 B1	19980325	EP19940103085	19890421
EP0612535 B2	20080514	EP19940103085	19890421
JP2807698 B2	19981008	JP19890504834	19890421
JP5504265 T2	19930708	JP19890504834T	19890421
US4978338 A	19901218	US19880184244	19880421
WO8910149 A2	19891102	WO1989US01719	19890421
WO8910149 A3	19900222	WO1989US01719	19890421

Probable Assignee: THEREX PARTNERSHIP LTD

Assignee(s):(std)**:** CODMAN AND SHURTLEFF ; THEREX LTD PARTNERSHIP ; THEREX CORP

Assignee(s): THEREX LTD ; THEREX LTD PARTNERSHIP WALPOLE MASS ; THEREX PARTNERSHIP LTD ; THEREX LTD PARTNERSHIP WALPOLE MASS US ; THEREX CORP WALPOLE MASS US ; CODMAN AND SHURTLEFF INC ; MELSKY GERALD S ; PROSL FRANK R

Inventor(s):(std)**:** MELSKY GERALD S ; PROSL FRANK R ; PUROOSURU FURANKU AARU ; MERUSUKII JERARUDO ESU ; GERALD S MELSKY ; FRANK R PROSL ; PROSL FRANK ; MELSKY GERALD

Agent(s): PHILLIPS ORMONDE FITZPATRICK; SMART AND BIGGAR; MEISSNER BOLTE AND PARTNER

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

International class (IPC 8-9): A61M37/00 A61M5/142 (Advanced/Invention); A61M37/00 (Core/Invention)

International class (IPC 1-7): A61M37/00 A61M39/2 A61M5/00 A61M5/14 A61M5/142 A61M5/168

CPC: A61M5/14276

European class: A61M5/142P10

US class: 604/132 604/288.02 604/86 604/93

Classification Explorer

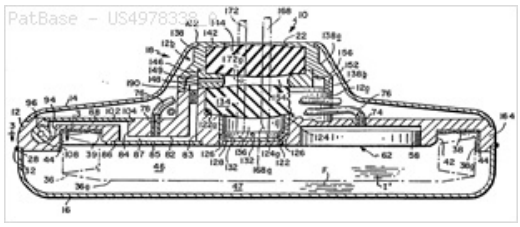
Cited documents: WO8302063 A1, WO8002377 A1, US4692146 A, US4673391 A, US4525165 A, US4496343 A, US4258711 A, US4221219 A, US4193397 A, US3951147 A, US3731681 A, US3730170 A, US3552441 A, GB2174218 A1, FR2354106 A1, EP0241159 A2, EP0230747 A2, DE3542729 A1, DE3112919 A1,

Forward Citations: WO9631246, WO9405351, WO9321988, WO9221390, WO9209317, WO13058911, WO04105839, WO0151108, USD682415, USD655807, USD579541, USD576267, USD554253, USD526409, US9737660, US9724127, US9662486, US9610429, US9566384, US9533092, US9440051, US9415159, US9295773, US9278173, US9254373, US9241819, US9211379, US9199069, US9192501, US9186480, US9125718, US9089395, US9044606, US9028490, US9023063, US9023062, US8992415, US8961466, US8946152, US8946151, US8945057, US8915893, US8905916, US8882728, US8882655, US8870742, US8864717, US8858421, US8821373, US8808287, US8801597, US8790311, US8764713, US8758303, US8753341, US8715243, US8715158, US8708979, US8679073, US8591532, US8591478, US8591395, US8568360, US8562567, US8551044, US8506532, US8496614, US8486003, US8476227, US8460291, US8460290, US8454600, US8449500, US8444641, US8439838, US8430850, US8414578, US8409221, US8409203, US8398654, US8377079, US8366667, US8337389, US8328804, US8317761, US8303549, US8287516, US8286339, US8251995, US8246588, US8233995, US8226644, US8226643, US8226642, US8221439, US8221355, US8211127, US8211060, US8192350, US8187163, US8187162, US8182480, US8177750, US8172805, US8162897, US8162892, US8157795, US8152771, US8152710, US8142452, US8114345, US8114055, US8100870, US8079989, US8066629, US8062250, US8057492, US8034065, US8016745, US8016744, US8012126, US8007479, US8007474, US8007465, US7985199, US7972315, US7947011, US7927330, US7927270, US7918844, US7901381, US7892200, US7867200, US7867199, US7862546, US7850660, US7844342, US7833222, US7811275, US7802824, US7781402, US7775966, US7775215, US7762999, US7762998, US7691102, US7658196, US7654484, US7651483, US7648503, US7648494, US7637892, US7628787, US7621395, US7594909, US7578818, US7572255, US7561916, US7553298, US7510552, US7481794, US7407493, US7341577, US7258680, US7195774, US7181287, US7147623, US7115112, US7108686, US7070580, US6805687, US6730060, US6719739, US6685452, US6592571, US6582418, US6485462, US6228050, US6213973, US5993414, US5989216, US5906597, US5823991, US5792123, US5752930, US5643207, US5607393, US5575770, US5558641, US5556381, US5554117, US5551849, US5542923, US5531684, US5527278, US5527277, US5520643, US5514103, US5503630, US5445616, US5443450, US5417656, US5395324, US5387192, US5356381, US5350360, US5304153, US5281199, US5263930, US5226879, US5158547, US2012209217, US2012053562, US2010069892, US2010042052, US2009264827, US2009259231, US2009259191, US2009259190, US2009254052, US2009227989, US2008208236, US2008125702, US2007185462, US2006253106, US2006235445, US2006079941, US2005273083, US2005137134, US2003064088, US2002188282, JP2007000643, FR2808205, FR2690625, EP2359880, EP1829492, EP1736196, EP1049513, EP0998317, EP0960626, EP0819012, DE19840360, DE19840360, AU2001286932,

Abstract:

Source: US4978338A Implantable infusion **apparatus** includes a housing with an inlet passage extending into the housing at a pronounced promontory on the housing wall. The passage has an outer end at the top of the promontory and an inner end defined by a needle stop positioned inside the housing. Self-sealing septa mounted in the passage at selected spacings from the needle stop divide the passage into a plurality of aligned inlet ports each of which has its own **fluid** outlet. One of the outlets leads to a pumpable infusate reservoir having an outlet conduit **connected** to a catheter that extends outside the housing; another leads directly to the outlet conduit so that while a first **fluid** is being pumped from the reservoir to the catheter, a second

fluid can be introduced into the other inlet port for mixing with the first **fluid** flowing to the catheter. Several different infusate flow configurations are also disclosed.



140) Family number: 30082518 (US2002094287A)

Title: Infusion **device** with disposable elements

Priority:

CA19890598427 19890502	NZ19890228977 19890503	US19880194865 19880517
US19890427174 19891025	US19930126056 19930923	US19910661806 19910226
US19950388679 19950214	US19930040106 19930330	US19890426988 19891025
US20070774417 20070706	WO1989US02131 19890517	WO1989US02131 19890517
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US20010035743 20011106	US20040854025 20040526	

Family:

Publication number	Publication date	Application number	Application date
AT108070 E	19940715	AT19890906892T	19890517
AU198937600 A1	19891212	AU19890037600	19890517
AU633004 B2	19930121	AU19890037600	19890517
CA1322924 A1	19931012	CA19890598427	19890502
DE68916643 D1	19940811	DE19896016643	19890517
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EP0418306 A1	19910327	EP19890906892	19890517
EP0418306 A4	19910522	EP19890906892	19890517
EP0418306 B1	19940706	EP19890906892	19890517
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NZ228977 A	19940726	NZ19890228977	19890503
NZ239804 A	19940726	NZ19890239804	19890503
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US2005013698 AA	20050120	US20040854025	20040526
US2008015506 AA	20080117	US20070774417	20070706
US5017059 A	19910521	US19890427174	19891025
US5074756 A	19911224	US19880194865	19880517
US5246347 A	19930921	US19890426988	19891025
US5320502 A	19940614	US19910661806	19910226
US5320503 A	19940614	US19930126056	19930923
US5584667 A	19961217	US19950473402	19950606
US5803712 A	19980908	US19950388679	19950214
US6146109 A	20001114	US19980106292	19980629
US6312227 BA	20011106	US19930040106	19930330
US6742992 BB	20040601	US20020290420	20021107
WO8911302 A1	19891130	WO1989US02131	19890517

Probable Assignee: CARDINAL HEALTH 303 INC

Assignee(s):(std)**:** ALARIS MEDICAL SYST INC ; PATIENT SOLUTIONS INC ; DAVIS DAVID LYLE ; DAVID LYLE DAVIS ; DAVIS DAVID L ; I FLOW CORP ; PATIENT SOLUTIONS INC SUBSTITU ; PATIENTS SOLUTIONS INC

Assignee(s): ALARIS MEDICAL INC ; PATIENT SOLUTIONS INC SAN DIEGO CALIF US ; PATIENT SOLUTIONS INC 13220 EVENING CREEK DR SO SAN DIEGO CA 92128 ; MORGAN STANLEY SENIOR FUNDING INC ; PATIENT SOLUTIONS INC 13220 EVENING CREEK DR SO SA ; PATIENT SOLUTIONS INC A DE CORP ; KIMBERLY CLARK WORLDWIDE INC ; IISBC BANK USA ; CITICORP NORTH AMERICA INC ; ALARIS MEDICAL SYSTEMS INC ; AVENT INC ; BANKERS TRUST CO ; BLOCK MEDICAL INC ; CARDINAL HEALTH 303 INC ; CAREFUSION 303 INC

Inventor(s):(std)**:** DAVID LYLE DAVIS ; DAVIS DAVID L ; DAVIS DAVID LYLE ; HATCH RICHARD F ; POIRIER DAVID A

Inventor(s): DAVIS DAVID LYLE SAN DIEGO CA 92129 US ; DAVIS DAVID

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; GOWLING LAFLEUR HENDERSON LLP; KNOBBE MARTENS OLSON AND BEAR LLP

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

International class (IPC 8-9): A61M1/00 A61M5/00 A61M5/14 A61M5/142 A61M5/168 A61M5/175 F04B43/08 F04B49/06 (Advanced/Invention);
A61M5/00 (Advanced/Non-invention);
A61M5/14 A61M5/142 A61M5/168 F04B43/00 (Core/Invention)

International class (IPC 1-7): A61M5/00 A61M5/14 A61M5/142 A61M5/175 B23C3/08 F01B43/12 F04B25/00 F04B43/08 F04B43/12 F04B49/06 G05D7/00

CPC: A61M5/14228 F04B49/065 A61M5/142 A61M5/16831 A61M5/16854 A61M2205/6018 A61M2205/6072 F04B43/08 F04B43/082 F04B2203/0207 Y10T409/303752

European class: A61M5/142 A61M5/142G6 A61M5/168D A61M5/168D4 F04B43/08 F04B43/08B F04B49/06C K61M205/60B K61M205/60P2 R04B203/0207

US class: 364/474.29 409/131 417/244 417/43 417/44.11 417/45 417/45P 417/474 417/474P 417/476 417/476S 417/478 417/479 417/53 60/46.7 604/151 604/151P 604/153 604/31 604/67 700/187

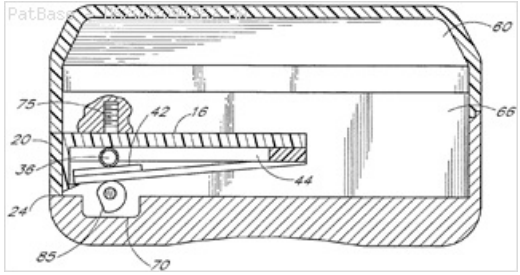
Classification Explorer

Cited documents: USRE31608 E, US6742992 BB, US6312227 BA, US5938163 A, US5743745 A, US5695473, US5628731, US5573506, US5547470, US5531697, US5531680, US5460490, US5246347 A, US5217355, US5207642 A, US5165873, US5152680, US5100380, US5096385, US5092749, US5078683 A, US5074756, US5055013, US5039279, US5029621, US5018945, US4954046, US4952124, US4950235, US4925444 A, US4909710, US4893991, US4846637, US4840542 A, US4836752, US4735558 A, US4731057, US4673334 A, US4662892, US4662872 A, US4662829 A, US4657490 A, US4657486 A, US4653987 A, US4653260 A, US4652260 A, US4650469 A, US4648872 A, US4648812 A, US4627835, US4624847, US4624661, US4617014, US4601707, US4586882 A, US4583921 A, US4573994 A, US4565542 A, US4564542, US4561830, US4559040, US4559038, US4551133, US4544369, US4544329, US4537561 A, US4519792 A, US4515589 A, US4501405 A, US4494285 A, US4493706 A, US4490135, US4482347, US4479797 A, US4472117, US4468222, US4460358, US4460355, US4457751, US4449893 A, US4447233 A, US4443216 A, US4437859 A, US4432699 A, US4424009 A, US4416595, US4411651, US4410322, US4409966, US4397642, US4397542, US4396385, US4392849, US4391600, US4382753 A, US4380236 A, US4373527 A, US4373525 A, US4367435 A, US4332246 A, US4319568 A, US4302164, US4290346, US4280494, US4278085 A, US4277226 A, US4273260 A, US4273121 A, US4265240 A, US4260494 A, US4256437 A, US4236880 A, US4231366 A, US4217993 A, US4212991 A, US4212591 A, US4210138 A, US4199307 A, US4191184 A, US4187057 A, US4184815 A, US4181245 A, US4177810 A, US4155362 A, US4152098 A, US4142524 A, US4139008 A, US4137913 A, US4131399 A, US4126132 A, US4121584 A, US4101057 A, US4094318 A, US4077405 A, US4067334 A, US4067332 A, US4065230 A,

US4042153 A, US4039269 A, US4037598 A, US4030495 A, US4029094 A, US3994294 A, US3993069 A, US3993065 A, US3993061 A, US3985133 A, US3981633 A, US3969991 A, US3934480 A, US3923060 A, US3901231 A, US3896741 A, US3895741 A, US3895631 A, US3894538 A, US3894338 A, US3888239 A, US3886938 A, US3884228 A, US3874826 A, US3811800 A, US3810719 A, US3809507 A, US3799702 A, US3798982 A, US3778195 A, US3769879 A, US3737251 A, US3731679 A, US3730650 A, US3728801 A, US3704080 A, US3670926 A, US3658445 A, US3640277 A, US3591930 A, US3559844 A, US3559644 A, US3518033 A, US3488763 A, US3464359 A, US3451393 A, US3428042 A, US3427986 A, US3391644 A, US3384080 A, US3375759 A, US3359910 A, US3339464 A, US3335724 A, US3295458 A, US3227092 A, US3199511 A, US3198385 A, US3177774 A, US31608 A, US3143969 A, US3091239 A, US3048121 A, US2925814 A, US2922379 A, US2877714 A, US2703084 A, US2689530 A, US2546852 A, US2483924 A, US2412397 A, US2105200 A, US1922196 A, US1874667 A, US1676114 A, US1615140 A, US1480256 A, EP0429866,

Forward Citations: WO9964091, WO9964091, WO9804316, WO9804301, WO9605435, WO9605434, WO9605433, WO9605432, WO9524229, WO9524229, WO9325816, WO9214930, WO14179210, WO07079016, WO07079016, WO03081046, WO03081046, WO03080158, WO0137904, WO0074752, USRE35501, USD807923, USD777906, USD777831, USD777247, USD766424, USD746975, USD706415, USD696769, USD655810, USD626647, USD585986, USD585546, USD466078, US9889256, US9889254, US9878091, US9855110, US9849235, US9833561, US9816502, US9789251, US9776757, US9770554, US9757509, US9750872, US9744298, US9744297, US9740829, US9726167, US9674811, US9662437, US9657902, US9657731, US9631615, US9631611, US9617988, US9615999, US9581152, US9522226, US9514131, US9505233, US9492605, US9486572, US9463280, US9457158, US9447783, US9446188, US9433733, US9433732, US9421329, US9410552, US9404490, US9399989, US9381288, US9364608, US9335352, US9333290, US9329996, US9327073, US9309872, US9283145, US9262361, US9250308, US9211377, US9173998, US9146264, US9145779, US9144646, US9144644, US9138379, US9132061, US9107999, US9101351, US9057363, US9056160, US9033925, US9025454, US9011371, US8974415, US8965707, US8961461, US8954336, US8952794, US8926561, US8920144, US8882481, US8870548, US8864739, US8858526, US8858185, US8814536, US8775196, US8758323, US8753097, US8715237, US8692540, US8681010, US8678793, US8678775, US8668672, US8662859, US8653919, US8651823, US8647296, US8647074, US8617110, US8613726, US8562584, US8539672, US8504179, US8486005, US8483980, US8435206, US8425487, US8421639, US8421443, US8382696, US8382444, US8353864, US8328786, US8313444, US8298184, US8292598, US8287495, US8267893, US8250483, US8241018, US8234128, US8212548, US8197235, US8182447, US8182241, US8172546, US8149131, US8133197, US8087429, US8083719, US8083503, US8083498, US8065096, US8062257, US8062008, US8034019, US8029247, US8025486, US7998157, US7998111, US7967773, US7963945, US7946751, US7944366, US7940664, US7934912, US7933780, US7927313, US7921718, US7902992, US7897196, US7896017, US7892206, US7878765, US7875004, US7871384, US7855655, US7850431, US7766949, US7766873, US7762788, US7726179, US7722574, US7695251, US7684446, US7668731, US7654976, US7654127, US7621893, US7572113, US7547049, US7527608, US7520871, US7517351, US7497842, US7494265, US7476087, US7471994, US7367358, US7347836, US7300453, US7211105, US7193521, US7140843, US7094253, US7048715, US7004960, US6985870, US6979345, US6942473, US6908452, US6752816, US6752787, US6742992, US6719779, US6719723, US6679862, US6673033, US6660028, US6585752, US6555986, US6520930, US6485471, US6468242, US6394771, US6362591, US6342061, US6329778, US6234773, US6213739, US6213738, US6196992, US6193480, US6189736, US6146109, US6123686, US6110153, US6090123, US6059753, US6056522, US6017354, US5993420, US5984891, US5954485, US5935099, US5928257, US5928196, US5904668, US5879144, US5879143, US5873853, US5853386, US5848988, US5823746, US5810770, US5795327, US5792167, US5791880, US5788671, US5772409, US5766155, US5755691, US5747350, US5743878, US5741121, US5716194, US5709534, US5695464, US5658133, US5647854, US5637093, US5630710, US5628731, US5628619, US5626563, US5620312, US5601420, US5584811, US5567136, US5567119, US5564915, US5554123, US5549460, US5540561, US5538399, US5531698, US5531697, US5513957, US5511951, US5509901, US5499906, US5482446, US5482438, US5464388, US5433704, US5433588, US5420038, US5395320, US5364242, US5348706, US5338164, US5217355, US5213483, US5201636, US5165873, US5131816, US5011378, US2016038670, US2015190573, US2015025457, US2015023808, US2014142499, US2014135694, US2014128807, US2014121632, US2013287612, US2013101439, US2012310153, US2012215199, US2012215169, US2012041370, US2011318198, US2011224614, US2011213504, US2011208890, US2011194373, US2011172594, US2011119033, US2011098864, US2011087165, US2010318032, US2010262304, US2010232929, US2010217193, US2010217192, US2010211002, US2010209268, US2010209267, US2010037680, US2010036322, US2009302059, US2009182307, US2009182265, US2009132094, US2009116334, US2009105609, US2009009107, US2008275425, US2008255517, US2008221522, US2008190176, US2008114388, US2008086088, US2008031740, US2008021395, US2008015506, US2007217442, US2007171319, US2007151346, US2007149926, US2007140880, US2007135765, US2007128050, US2007128048, US2007128047, US2007128046, US2007126233, US2007122289, US2007104586, US2007093753, US2007093752, US2007078380, US2007066940, US2007066939, US2007062251, US2007062250, US2006282040, US2006208002, US2006173419, US2005214146, US2005184087, US2005177136, US2005033245, US2004225310, US2004199230, US2004136839, US2004106902, US2004085215, US2004034331, US2004015124, US2003187489, US2003181866, US2003181865, US2003120441, US2003107751, US2002198494, US2002151845, US2002134104, TWI443482, JP2012205929, EP1485149, EP1240431, EP1086337, EP0697898, EP0655107, DE10120543, AU739019, AU737494, AU634811,

Abstract:
Source: US2002094287A An infusion **device** with a disposable administration set which is inexpensive to manufacture. In the preferred embodiment of the present invention the disposable administration set has a plurality of elongated cam followers **connected** to a plate assembly, wherein the cam followers are displaced in a predetermined sequence and forced against a delivery tube by cam means driven by rotary drive means. The disposable administration set is **injection** molded as a single integral piece. The disposable administration set includes adjustment spacers disposed between the plate assembly and the cam followers which adjust the distance between them to keep the **device** accurate. In the preferred embodiment of the present invention the cam means are configured to provide **fluid** delivery at a consistent and uniform rate.



141) Family number: 11628240 (US5066276A)

Title: METHOD AND **APPARATUS** FOR **INJECTING** VISCOUS **FLUID** INTO THE EYE TO LIFT PRE-RETINAL AND POST-RETINAL MEMBRANE WITH LINEAR PRESSURE CONTROL

Priority: CA19890603508 19890621 US19880209503 19880621 US19900572320 19900822 US19910760647 19910916 US19890363983 19890609

Family:

Publication number	Publication date	Application number	Application date
AU198936661 A1	19900104	AU19890036661	19890620
AU625063 B2	19920702	AU19890036661	19890620
CA1313802 A1	19930223	CA19890603508	19890621
EP0348146 A1	19891227	EP19890306215	19890620
JP1893250 C3	19941226	JP19890160596	19890621
JP2104352 A2	19900417	JP19890160596	19890621
JP6018587 B4	19940316	JP19890160596	19890621
US5066276 A	19911119	US19890363983	19890609
US5120307 A	19920609	US19900572320	19900822
US5328481 A	19940712	US19910760647	19910916

Probable Assignee: ALCON MFG

Assignee(s):(std)**:** ALCON LAB INC

Assignee(s): ALCON LABORATORIES INC ; ALCON MFG ; WANG CARL CT

Inventor(s):(std)**:** WANG CARL C T ; KAARU SHII TEII WAN

Inventor(s): CARL CT WANG ; CARL C T WANG ; WANG CARL CT

Agent(s): FB RICE; FB RICE PTY LTD; SIM AND MCBURNEY

Designated states: AT BE CH DE ES FR GB GR IT LI LU NL SE

International class (IPC 8-9): A61F9/00 A61F9/007 A61N5/00 (Advanced/Invention); A61F9/00 (Advanced/Non-invention); A61F9/00 A61F9/007 (Core/Invention)

International class (IPC 1-7): A61F9/00 A61M31/00 A61M5/00 A61N5/00

CPC: A61F9/00736

European class: A61F9/007R

US class: 604/121 604/143 604/246 604/294 604/320 604/506 604/51 604/521 604/67

Classification Explorer

Cited documents: WO8706455 A1, WO8602257 A1, WO8001310 A1, US4820264 A, US4768506 A, US4764165 A, US4717384 A, US4713446 A, US4705500 A, US4678459 A, US4670006 A, US4634027 A, US4508532 A, US4424055 A, US4351335 A, US4340037 A, US4331130 A, US4328803 A, US4274411 A, US4177810 A, US4041947 A, US3884237 A, US3812855 A, US3768472 A, US376013 A, US3589363 A, US2865371 A, US2484657 A, US2017276 A, US1364333 A, US1105275 A, US1046166 A, SU988285 T, SU1364333 T, GB191116647 A, GB16647, GB16647, EP0232458 A2, EP0151519 A1, DE2907832 A1, AU6032069 A1, AU60320 A1, AU3129363 A1, AU273404 A1, AU253057 A1,

Forward Citations: WO9606582, WO16060925, WO13177215, WO08140546, WO08140546, WO08112011, WO08112011, WO08105955, WO08105955, WO08105952, WO08105952, WO04108033, WO04108033, WO03088892, WO03088892, WO0078257, WO0001367, WO0001367, USD750223, USD489132, US9861525, US9849238, US9788995, US9782541, US9770361, US9693895, US9693894, US9636332, US9636253, US9623174, US9572800, US9539139, US9505505, US9393370, US9333297, US9308124, US9283322, US9271866, US9199035, US9180047, US9162024, US9107995, US9087145, US9022970, US8998881, US8936021, US8821440, US8764708, US8746290, US8733935, US8721622, US8689439, US8684980, US8632511, US8591457, US8545463, US8454582, US8377001, US8377000, US8372036, US8343132, US8251980, US8177747, US8118790, US8012136, US8003124, US8002753, US7887521, US7887517, US7883031, US7871399, US7862540, US7815603, US7811252, US7776026, US7762981, US7740619, US7674243, US7654983, US7629768, US7485113, US7285107, US7189245, US7025755, US7011649, US6955809, US6579256, US6554991, US6471667, US6402714, US6290690, US6210357, US6045791, US6036678, US6024719, US5989262, US5962027, US5868728, US5860949, US5817075, US5814030, US5792103, US5547473, US5547468, US5487725, US5486165, US5360399, US5342298, US5334163, US5304118, US2011245787, US2010324531, US2010211044, US2010106089, US2010106083, US2010030136, US2010016829, US2010004276, US2009306585, US2009287150, US2009198183, US2009093789, US2009093788, US2009036868, US2009036846, US2009036842, US2009033279, US2009018548, US2009018512, US2008281292, US2008154204, US2008125712, US2008097390, US2008097379, US2008097311, US2008067902, US2008058760, US2008021438, US2008021419, US2008021413, US2008021412, US2008015545, US2007293820, US2007270777, US2007270768, US2007270750, US2007270748, US2007270744, US2007268340, US2007060887, US2007038174, US2006257451, US2006110428, US2006039993, US2005143363, US2003236502, US2003233070, US2003216747, US2003147877, US2003054023, US2002175062, JP4602935, JP3845013, JP2006231086, JP2003502111, ES2220163, EP1839628, EP1302185, EP1180993, EP1094789, EP1075285, EP0550791, EP0466705, EP0466705, AU758704, AU747462, AU2002363335,

Abstract:
Source: US5066276A An **apparatus** and method for **injecting** viscous material into the body. In the case of **injection** into the eye, sufficient material is **injected** to separate a membrane from the retina so that intraocular scissors may be manipulated between the membrane and the retina to cut the attachment points. The membrane is then aspirated away. The **injection** is done using a standard glue **injector** with a one-shot and a continuous mode. The glue **injector** is pneumatically **coupled** through a sterile filter and a custom adaptor to a sterile syringe storing the material to be **injected**.

PatBase - US5066276_A

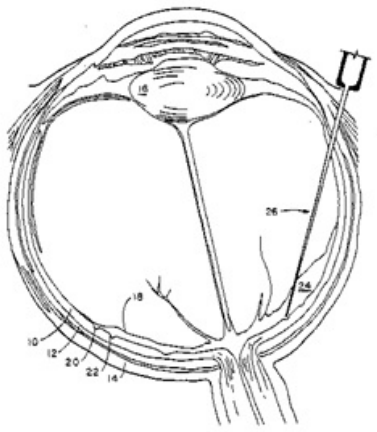


FIG. 1

142) Family number: 29188153 (US5091512A)

Title: FIBRINOGEN-SPECIFIC MONOCLONAL ANTIBODY

Priority:

AU19890037658	19890612	CA19890602660	19890613	CA19890617062	19890613
KR19900070307	19900213	US19880364259	19880613	JP19940334709	19890612
EP19890906932	19890612	US19880206259	19880613	KR19900700307	19900213
WO1989US02545	19890612	US19950459596	19950602	US19900583738	19901010
US19980207913	19981209	US20000724404	20001128	US19950460702	19950602
US19890364053	19890608	US19930086423	19930702	US19980044063	19980319
US19930081914	19930622	US19920835800	19920214	US19950460698	19950602
WO1997AU00650	19970926	WO1989US02545	19890612	WO1994US07087	19940622

Family:

Publication number	Publication date	Application number	Application date
AT145007 E	19961115	AT19890906932T	19890612
AU198937658 A1	19900112	AU19890037658	19890612
AU199220975 A1	19921029	AU19920020975	19920813
AU199220976 A1	19921022	AU19920020976	19920813
AU199472122 A1	19950124	AU19940072122	19940622
AU623412 B2	19920514	AU19890037658	19890612
AU642604 B2	19931021	AU19920020976	19920813
AU654196 B2	19941027	AU19920020975	19920813
AU688345 B2	19980312	AU19940072122	19940622
BRPI9406944 A	19960806	BR1994PI06944	19940622
CA1339737 A1	19980317	CA19890602660	19890613
CA1340013 A1	19980825	CA19960617062	19960906
CA2166386 AA	19951229	CA19942166386	19940622
CN1129984 A	19960828	CN19941093177	19940622
CZ9600006 A3	19960717	CZ19960000006	19940622
DE68927438 D1	19961212	DE19896027438	19890612
DE68927438 T2	19970320	DE19896027438T	19890612
EP0413763 A1	19910227	EP19890906932	19890612
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KR100225183 B1	19991015	KR19907000307	19900213
KR100291368 B1	20020201	KR19950705946	19940622
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SG50681 A1	19980720	SG19960008550	19890612
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WO8912690 A1	19891228	WO1989US02545	19890612
WO9501568 A1	19950112	WO1994US07087	19940622

Probable Assignee: BIOSITE INC

Assignee(s):(std): AMERICAN BIOGENETIC SCIENCES INC ; AMERICAN BIOGENTIC SCIENCES INC ; A B S INC ; AMERICAN BIOGENTIC SCIENCES IN ; AMERICAN BIOGENETIC SCIENCES ; AMERICAN BIOGENETIC SCI INC

Assignee(s): AMERICAN BAIOJIENTETSUKU SCI INC ; AMERIKAN BAIOJENTETSUKU SAIENSHIZU INC ; ADVANTAGE DIAGNOSTICS CORP ; ALERE CONNECT LLC ; ALERE MEDICAL INC ; ALERE SAN DIEGO INC ; ALERE SAN DIEGO INC FKA BIOSITE INC OR FKA CHOLESTECH CORP OR FKA HEMOSENSE INC OR FKA INVERNESS MEDICAL BIOSTAR INC OR FKA ISCHEMIA TECHNOLOGIES INC ; ALERE SCARBOROUGH INC ; AMERICAN BIOGENETIC SCIENCES INC COPIAGUE N Y US ; AMERIKAN BIOGENETIK SAJENSIZ INK ; AMEDITECH INC ; APPLIED BIOTECH INC ; BINAX INC ; ALERE SCARBOROUGH INC FKA MATRITECH INC FKA ADVANTAGE DIAGNOSTICS CORP OR FKA BINAX INC OR FKA MILANO ACQUISITION CORP ; ROACH ALFRED J ; BIOSITE INC ; GENERAL ELECTRIC CAPITAL CORP ; GENERAL ELECTRIC CAPITAL AGENT CORP AS ; PLEASANTS JULIAN R ; GARGAN PAUL E ; PLOPLIS VICTORIA A ; GENERAL ELECTRIC CAPITAL AGENT AS CORP ; CHOLESTECH CORP ; GENECARE MEDICAL GENETICS CENTER INC ; HEMOSENSE INC ; INSTANT TECHNOLOGIES INC ; INVERNESS MEDICAL BIOSTAR INC ; ISCHEMIA TECHNOLOGIES INC ; MATRIA HEALTHCARE INC ; MATRITECH INC ; ZYCARE INC ; GENERAL ELECTRIC CAPITAL COLLATERAL AGENT AS CORP ; HEALTHCARE FINANCIAL SOLUTIONS LLC SUCCESSOR ADMINISTRATIVE AGENT AS ; ESCREEN INC ; INNOVACON INC FKA APPLIED BIOTECH INC OR FKA AMEDITECH INC ; IONIAN TECHNOLOGIES LLC FKA IONIAN TECHNOLOGIES INC ; QUALITY ASSURED SERVICES INC FKA ZYCARE INC ; STANDING STONE LLC

Inventor(s):(std): GAAGAN POORU II ; GARGAN P E ; GARGAN PAUL E ; GARGAN PAUL EDWARD ; J R PLEASANTS ; JULIAN R PLEASANTS ; P E GARGAN ; PAUL E GARGAN ; PLEASANTS J R ; PLEASANTS JULIAN R ; PLOPLIS V A ; PLOPLIS VICTORIA A ; PLOPLIS VICTORIA ANN ; PURIIZANTSU JIYURIAN AARU ; PUROPURISU BUIKUTORIA EE ; V A PLOPLIS ; VICTORIA A PLOPLIS ; PLOPLIS VICTORIA ; PLEASANTS JULIAN ; GARGAN PAUL

Inventor(s): GAAGAN HOORU II ; VIKTORIJA A. PLOPLIS ; POL E. GARGAN ; DZHULIAN R. PLEZANTS ; PUROPURISU UIKUTORIA EE ; PURIIZANTSU JURIAN AARU ; POPLIS VICTORIA A

Agent(s): PHILLIPS ORMONDE FITZPATRICK; OSLER HOSKIN AND HARCOURT LLP

Designated states: AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK ES FI FR GA GB GE GN GR HU IE IT JP KG KR KZ LI LK LU LV MC MD MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SI SK SN TD TG TJ UA UZ

International class (IPC 8-9): A23K1/16 A61K38/00 A61K38/43 A61K39/395 A61K45/00 A61K47/48 A61K49/00 A61K51/10 A61P35/00 A61P7/02 C07K14/75 C07K14/76 C07K16/00 C07K16/18 C07K16/36 C07K19/00 C12N15/02 C12N5/06 C12N5/10 C12N5/16 C12N5/18 C12P21/08 C12Q1/56 G01N33/50 G01N33/53 G01N33/531 G01N33/541 G01N33/566 G01N33/573 G01N33/577 G01N33/86 G01N33/96 (Advanced/Invention);
A23K1/16 A61K38/00 A61K38/43 A61K45/00 A61K49/00 A61P35/00 C07K16/00 C07K19/00 C12N15/02 C12N5/10 C12N5/18 C12P21/08 C12Q1/56 C12R1/91 G01N33/50 G01N33/53 G01N33/577 G01N33/96 (Advanced/Non-invention);
A23K1/16 A61K38/43 A61K39/395 A61K45/00 A61K47/48 A61K49/00 A61P35/00 A61P7/00 C07K14/435 C07K16/00 C07K16/18 C07K19/00 C12N15/02 C12N5/06 C12N5/10 C12N5/16 C12N5/18 C12P21/08 C12Q1/56 G01N33/50 G01N33/53 G01N33/531 G01N33/573 G01N33/577 G01N33/86 G01N33/96 (Core/Invention);
A61K38/00 (Core/Non-invention)

International class (IPC 1-7): A01K67/027 A23K1/16 A61K37/465 A61K37/475 A61K38/43 A61K39/395 A61K43/00 A61K45/00 A61K45/05 A61K47/48 A61K49/00 A61K51/00 A61K51/10 A61P35/00 A61P7/02 C07K15/00 C07K15/04 C07K15/28 C07K16/00 C07K16/18 C07K16/36 C12N15/02 C12N15/06 C12N5/00 C12N5/06 C12N5/10 C12N5/12 C12N5/16 C12N5/18 C12N5/20 C12P21/00 C12P21/08 C12Q1/56 C12Q1/64 G01N33/50 G01N33/53 G01N33/531 G01N33/541 G01N33/543 G01N33/566 G01N33/567 G01N33/577 G01N33/68 G01N33/86 G01N33/96

CPC: Y10S424/809 Y10S435/962 Y10S435/972 Y10S435/975 Y10S436/808 C07K14/75 A61K47/6815 A61K47/6843 A61K47/6845 G01N33/86 A61K38/00 A61K39/39533 A61K51/10 C07K16/18 C07K16/36 G01N33/531 G01N33/573 G01N2333/745 G01N2333/75 G01N2333/972 G01N2333/9723

European class: A61K39/395C A61K47/48T2C12M A61K47/48T4B18 A61K47/48T4B24 A61K51/10 C07K14/75 C07K16/18 C07K16/36 G01N33/531 G01N33/573 G01N33/86 K61K38/00 M07K203/00 M07K209/00 S01N333/745 S01N333/75 S01N333/972 S01N333/972A

US class: 424/1.1 424/145.1 424/158.1 424/178.1 424/179.1 424/181.1 424/183.1 424/809 424/85.8 424/9 435/13 435/172.2 435/240.2 435/240.27 435/325 435/326 435/337 435/7.2 435/7.92 435/7.93 435/7.94 435/7.95 435/70.1 435/70.21 435/962 435/972 435/975 436/501 436/518 436/531 436/548 436/69 436/808 530/387 530/388 530/388.1 530/388.25 530/389.3 530/391.1 530/391.3 530/391.5 530/391.7

Classification Explorer

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Forward Citations: WO9737755, WO9702291, WO9641170, WO9641170, WO9640986, WO9519779, WO9501568, WO9425491, WO9117775, WO17062953, WO14081633, WO11158973, WO11133327, WO07147272, WO03029422, WO0218628, WO0177361, WO0031235, US9891233, US9754505, US9512148, US9493540, US9359289, US9322026, US9272986, US9255273, US9249207, US9169210, US9163256, US9140692, US9127024, US9102648, US9081024, US9063140, US9029152, US8969018, US8883433, US8865425, US8865424, US8822754, US8748125, US8728808, US8715959, US8691527, US8680249, US8669051, US8598409, US8524948, US8524462, US8497093, US8461308, US8412460, US8283128, US8236556, US8221995, US8211035, US8202718, US8168426, US8114612, US8105825, US8093043, US8088382, US8084224, US8076454, US8053232, US8030067, US8021878, US7985560, US7935510, US7919269, US7914460, US7875278, US7851220, US7842472, US7829676, US7829294, US7820108, US7807417, US7776587, US7740801, US7723059, US7713705, US7666584, US7657379, US7608406, US7604952, US7604946, US7601508, US7579159, US7563928, US7563879, US7531326, US7524635, US7476513, US7456315, US7390627, US7381407, US7378250, US7361473, US7358055, US7229776, US7229775, US7223395, US7201900, US7166469, US7104963, US7052854, US7052468, US7005101, US6981947, US6962981, US6921846, US6815175, US6727102, US6451545, US6406874, US6309888, US6294173, US6187593, US6083902, US6025148, US5938595, US5871737, US5869044, US5843690, US5840256, US5837540, US5821068, US5817768, US5792742, US5789183, US5750652, US5723126, US5670329, US5487892, US5453359, US5443827, US5441869, US5187064, US2013149793, US2013143243, US2012070855, US2011104726, US2011028696, US2011014629, US2010240078, US2010167307, US2010086944, US2009060908, US2009004755, US2008254485, US2008118924, US2008101985, US2008050832, US2008045444, US2008009077, US2007259388, US2007224643, US2007196880, US2007190586, US2007128671, US2006019871, US2005255484, US2005181451, US2005164317, US2005164238, US2005148024, US2005084917, US2005054942, US2004253637, US2004219509, US2004209307, US2004203083, US2004176914, US2004121350, US2004121343, US2004110687, US2004024188, US2003199000, US2003176804, US2003175839, US2003132019, US2003109420, US2003013127, KR101536704, FR2813395, EP2963059, EP2204654, EP2058334, EP1870712, EP1867734, EP1832654, EP1368049, EP1144600, EP1100913, EP0879286, EP0871884, EP0871884, EP0749320, EP0706656, EP0706656, CN104024858, CN103954758, AU708897,

Abstract:
Source: US5091512A The subject invention relates to a fibrinogen-specific monoclonal antibody wherein said monoclonal

antibody: (a) binds to the isolated A alpha chain of fibrinogen, (b) does not prolong the conversion time of fibrinogen to fibrin by thrombin, (c) binds to fibrin and (d) does not crossreact with plasmin derived fibrinogen degradation products. The subject invention also covers the use of such a monoclonal antibody in an immunoassay for the determination of plasma fibrinogen levels in vitro.

PatBase - WO9501568_A1

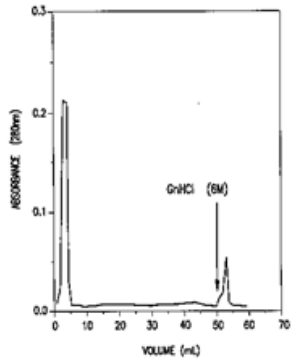


FIG.1A

143) Family number: 10097821 (US4890340A)

Title: Self-contained hand-held bidet

Priority: CA19890611859 19890919 US19880249053 19880926 WO1990US06876 19901130 WO1989US04077 19890919 US19890444465 19891201

Family:

Publication number	Publication date	Application number	Application date
AT114961 E	19941215	AT19890911414T	19890919
AU199169649 A1	19910626	AU19910069649	19901130
CA1277103 A1	19901204	CA19890611859	19890919
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WO9003159 A1	19900405	WO1989US04077	19890919
WO9107940 A1	19910613	WO1990US06876	19901130

Probable Assignee: LOVITT FILMS INC A CA CORP

Assignee(s):(std)**:** HAROLD B LOVITT ; LOVITT HAROLD B

Assignee(s): LOVITT HAROLD B LOS ANGELES CALIF US ; LOVITT FILMS INC ; LOVITT FILMS INC A CA CORP ; LOVITT FILMS INC A CORP OF DE

Inventor(s):(std)**:** LOVITT HAROLD B

Inventor(s): LOVITT HAROLD B LOS ANGELES CALIF US ; HAROLD B LOVITT

Agent(s): OYEN WIGGS GREEN AND MUTALA LLP; WOLFF BREGMAN AND GOLLER

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

International class (IPC 8-9): A61H35/00 A61M3/00 A61M3/02 (Advanced/Invention); A61H35/00 A61M3/00 (Advanced/Non-invention); A61M3/00 (Core/Invention)

International class (IPC 1-7): A47K3/22 A61H35/00 A61H9/00 A61M3/00 A61M3/02

CPC: A61M3/0254 A61M3/0258 A61M2205/8225

European class: A61M3/02D8 A61M3/02D8B K61M205/82C3 K61M3/02D8B

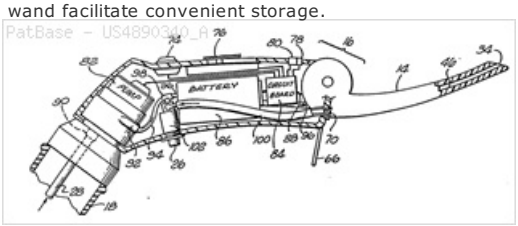
US class: 4/443 4/448

Classification Explorer

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Forward Citations: WO9820722, WO9820722, WO9625188, WO9107940, WO05016219, WO05016101, USD708703, US9809966, US9714507, US9132438, US9101490, US8281423, US8171575, US7824351, US7815130, US7490783, US7188785, US7155754, US7065802, US6955662, US6918896, US6751813, US6503220, US6272716, US6059754, US5991937, US5941851, US5864895, US5792108, US5746721, US5409167, US5335855, US5097540, US2014263711, US2014259352, US2014107409, US2013240575, US2013046259, US2012223160, US2012110726, US2011302709, US2009218417, US2009076468, US2009025133, US2008091060, US2008065001, US2007131793, US2006241209, US2006207007, US2006097076, US2005027241, US2005022295, US2004231041, US2004164182, US2003220620, EP2608173, EP0502980, DE10121508, CN105050449, CN105050449, AU2012223314,

Abstract:
Source: US4890340A A self-contained hand-held bidet **device**, for providing lavaging action with portability and convenience. The **device** comprises a housing having a motorized pump with a power source and switch for activating the pump. The pump draws **fluid** from a reservoir mounted at one end of the housing and pumps the **fluid** through a pivotal conduit to exit as a spray. Lightweight construction, a collapsible reservoir and the pivotally mounted wand facilitate convenient storage.



144) Family number: 7299142 (US5098545A)

Title: PRECALIBRATED, DISPOSABLE ELECTROCHEMICAL SENSING **DEVICE**

Priority:
AU19890035077 19890523 AU19900058943 19900713 EP19900250091 19900405
US19880220246 19880718 CA19890599611 19890512 CA19902016826 19900515
US19900626411 19901214 US19890401786 19891011 US19890401786 19890901
US19890401786 19890901

Family:

Publication number	Publication date	Application number	Application date
AU198935077 A1	19900118	AU19890035077	19890523
AU199058943 A1	19910418	AU19900058943	19900713
AU199215296 A1	19920709	AU19920015296	19920430
AU199456419 A1	19940505	AU19940056419	19940225
AU625758 B2	19920716	AU19890035077	19890523
BRPI8903536 A	19900313	BR1989PI03536	19890718
BRPI9004183 A	19910903	BR1990PI04183	19900823
CA1316572 A1	19930420	CA19890599611	19890512
CA2016826 AA	19910411	CA19902016826	19900515
DK242189 A	19900119	DK19890002421	19890518
DK242189 A0	19890518	DK19890002421	19890518
EP0351516 A2	19900124	EP19890108694	19890513
EP0351516 A3	19910925	EP19890108694	19890513
EP0450202 A1	19911009	EP19900250091	19900405
FI892351 A	19900119	FI19890002351	19890516
FI892351 A0	19890516	FI19890002351	19890516
FI901822 A0	19900410	FI19900001822	19900410
IE902763 A1	19910327	IE19900002763	19900731
IL90419 A0	19900118	IL19890090419	19890526
IL90419 A1	19930221	IL19890090419	19890526
IL93591 A0	19901223	IL19900093591	19900301
JP2147050 A2	19900606	JP19890185857	19890718
JP3134554 A2	19910607	JP19900114979	19900427
KR19910003373 A	19910227	KR19890010146	19890718
KR19910006716 A	19910429	KR19900013578	19900831
NO891994 A	19900119	NO19890001994	19890518
NO891994 A0	19890518	NO19890001994	19890518
NO901640 A	19910304	NO19900001640	19900410
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PT90646 A	19900208	PT19890090646	19890524
US5098545 A	19920324	US19900626411	19901214
ZA9002799 A	19911127	ZA19900002799	19900411

Probable Assignee: STAT CHEM INC

Assignee(s):(std)**:** MAATEIN JIEI PATOKO ; MARTIN J PAKTO ; PATKO MARTIN J ; PORTON INT INC ; PORTON INTERNATIONAL INC

Assignee(s): STAT CHEM INC ; MARTIN J PATKO

Inventor(s):(std)**:** MAATEIN JIEI PATOKO ; PATKO MARTIN J C O PORTON INTE ; PATKO MARTIN J ; MARTIN J PATKO

Inventor(s): PATKO MARTIN J C O PORTON INT INC ; PATKO MARTIN J C O PORTON INTERNATIONAL INC

Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD; BLAKE CASSELS AND GRAYDON LLP; REINHOLD COHN AND PARTNERS

Designated states: BE CH DE DK ES FR GB GR IT LI NL SE

International class (IPC 8-9): A61B5/145 A61B5/1473 A61B5/1495 G01N27/00 G01N27/26 G01N27/27 G01N27/28 G01N27/30 G01N27/31 G01N27/333 G01N27/40 G01N27/403 G01N27/416 (Advanced/Invention);
A61B5/145 G01N27/27 G01N27/403 (Advanced/Non-invention);
A61B5/145 G01N27/00 G01N27/26 G01N27/27 G01N27/28 G01N27/30 G01N27/333 G01N27/40 G01N27/403 G01N27/416 (Core/Invention);
G01N (Subclass/Invention)

International class (IPC 1-7): A61B5/14 G01N27/00 G01N27/26 G01N27/27 G01N27/28 G01N27/30 G01N27/31 G01N27/333 G01N27/40 G01N27/403 G01N27/416 G01N30/96 G01V1/40

CPC: G01N33/492 G01N27/307

European class: G01N27/28 G01N27/30G

US class: 204/403 204/403.03 204/403.06 204/412 204/414 204/415 204/416 204/433

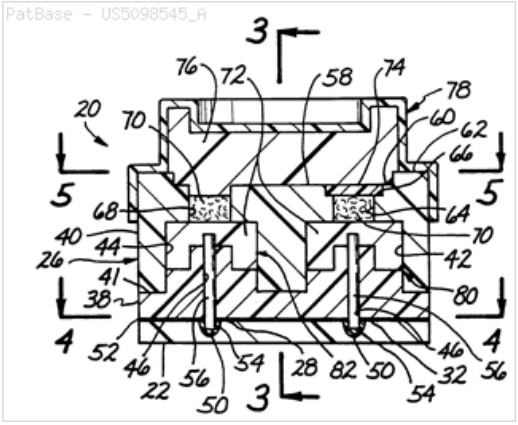
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Abstract:
Source: US5098545A Precalibrated, disposable electrochemical sensing **devices** can be constructed so as to utilize a housing shaped so as to internally include at least two separate half cells, one of which is capable of serving as a reference half cell and

the other of which is capable of serving as a sensing half cell. The housing is shaped so as to include a top depression capable of being used as a container which is in communication with the interiors of the half cells. The depression is capable of holding for a sample to be analyzed using the **device**. The housing is preferably mounted on a board which is capable of being plugged into a female socket. This board carries electrodes which are **connected** to electrodes in the half cells.



145) Family number: 30996446 (US2002099332A)

Title: BIODEGRADABLE POLYMERIC ENDOLUMINAL SEALING PROCESS, **APPARATUS** AND POLYMERIC PRODUCTS FOR USE THEREIN

Priority:

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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: GENZYME CORP

Assignee(s):(std)**:** ENDOLUMINAL THERAPEUTICS INC ; FAIRCHILD IND ; REXNORD HOLDINGS INC ; FOCAL INC ; MASSIA STEPHEN P ; MARVIN SLEPIAN ; STEPHEN P MASSIA ; REXNORD INC ; SLEPIAN MARVIN J ; SCHINDLER ANTON ; VSI CORP ; SLEPIAN MARVIN

Assignee(s): VSI A CORP OF DE CORP ; WILMINGTON TRUST CO A DE BANKING CORP ; CITICORP USA INC ; SLEPIAN MARVIN J CLEVELAND HEIGHTS OHIO US ; SURIPIAN MAABIN JEI ; VSI CORP CHANTILLY VA US ; WILMINGTON TRUST CO ; REXNORD HOLDINGS INC A DE CORP ; MARVIN J SLEPIAN ; REXNORD HOLDINGS INC BROOKFIELD WIS US ; RETSUKUSUNORUDO INC ; GENZYME CORP ; HUCK PATENTS INC ; FAIRCHILD IND INC ; ENDORUMINARU SERAPYUUTEITSUKUSU INC ; FAIRCHILD HOLDING CORP

Inventor(s):(std)**:** MARVIN SLEPIAN ; MASSIA STEPHEN ; MASSIA STEPHEN P ; ROBIN W ELCOCK ; SCHINDLER ANTON ; SLEPIAN MARVIN J ; STEPHEN P MASSIA ; ROBIN DABURIYUU ERUKOTSUKU ; GUEVARA BELEN A ; ENDOLUMINAL THERAPEUTICS INC ; ELCOCK ROBIN W ; BEREN EI GUEBARA ; BELEN A GUEVARA ; SLEPIAN MARVIN

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Agent(s): FB RICE; FB RICE PTY LTD; CASSAN MACLEAN; BERESKIN AND PARR; MILES JOHN STEPHEN ET AL; PILKINGTON STEPHANIE JOAN; NAKAMURA GIHEI; NODA HISATO; SAKAI MASAYUKI; HORII YUTAKA; MORITA TOSHIO; FUKAMI HISAO

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

International class (IPC 8-9): A61F2/00 A61F2/02 A61F2/04 A61F2/06 A61F2/82 A61F2/84 A61F2/88 A61F2/958 A61K38/04 A61K38/17 A61K47/30 A61L24/00 A61L24/04 A61L24/06 A61L26/00 A61L27/00 A61L27/16 A61L27/18 A61L27/34 A61L27/52 A61L27/54 A61L27/58 A61L29/00 A61L29/08 A61L31/00 A61L31/06 A61L31/10 A61L31/14 A61L31/16 A61M25/00 A61M25/10 A61M29/00 A61M29/02 A61M31/00 A61M35/00 A61M37/00 A61P9/14 B82B1/00 F16B37/04 F16B37/12 F16B39/06 (Advanced/Invention);
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Abstract:

Source: US2002099332A A novel process for paving or sealing the interior surface of a tissue lumen by entering the interior of the tissue lumen and applying a polymer to the interior surface of the tissue lumen. This is accomplished using a catheter which delivers the polymer to the tissue lumen and causes it to conform to the interior surface of the lumen. The polymer can be delivered to the lumen as a monomer or prepolymer solution, or as an at least partially preformed layer on an expansile member.



146) Family number: 29443374 (US2003122954A)

Title: VIDEO CAMERA AND METHOD AND **DEVICE** FOR CAPTURING VIDEO, AUDIO AND DATA SIGNALS

Priority:
CA19902007964 19900117 CA19922070529 19920604 US19880258722 19881017
US19930017030 19930212 US19890308826 19890210 US19890308826 19890210
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US19960703480 19960827 US20020304597 20021126 US19980004162 19980101
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Family:

Publication number	Publication date	Application number	Application date
CA2007964 AA	19900810	CA19902007964	19900117
CA2007964 C	19950307	CA19902007964	19900117
CA2070529 AA	19930728	CA19922070529	19920604
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US6847391 BA	20050125	US20000546901	20000410
WO9012472 A1	19901018	WO1989US05713	19891219

Probable Assignee: ORBSAK LLC

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Inventor(s):(std)**:** KASSATLY L SAMUEL A ; KASSATLY L SAMUEL ANTHONY ; KASSATLY LORD S A ; KASSATLY LORD SAMUEL A ; KASSATLY LORD SAMUEL ANTHONY ; KASSATLY SALIM A ; KASSATLY SALIM ANTOINE ; KASSATLY SAMUEL A ; KASSATLY SAMUEL ANTHONY ; SAMIYUERU EI KASATORII

Agent(s): NA; SAMUEL A

Designated states: AT BE CH DE ES FR GB IT JP LU NL SE SU

International class (IPC 8-9):
H04J3/17 H04J3/22 H04N21/2365 H04N21/2385 H04N21/432 H04N21/433 H04N21/434 H04N21/485 H04N21/658 H04N5/00 H04N5/225 H04N7/08 H04N7/12 H04N7/15 H04N7/26 H04N7/30 H04N7/50 H04N7/58 H04N9/04 H04N9/804 (Advanced/Invention);
H04N9/82 (Advanced/Non-invention);
H04J3/17 H04J3/22 H04N5/00 H04N5/225 H04N7/08 H04N7/12 H04N7/15 H04N7/26 H04N7/30 H04N7/50 H04N7/52 H04N9/04 H04N9/804 (Core/Invention);
H04N9/82 (Core/Non-invention)

International class (IPC 1-7): A61K9/22 A61M1/10 G02B13/16 H04J3/17 H04J3/22 H04L12/00 H04L12/18 H04N11/02 H04N5/225 H04N7/015 H04N7/04 H04N7/08 H04N7/12 H04N7/13 H04N7/133 H04N7/14 H04N7/15 H04N7/16 H04N7/173 H04N7/26 H04N7/50 H04Q11/00 H04W7/14

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European class: H04N21/2365 H04N21/236R H04N21/4335 H04N21/434 H04N21/434V H04N21/438T H04N5/00M6 H04N5/225C4 H04N7/08 H04N7/08C H04N7/12 H04N7/15 H04N7/30 H04N9/04B H04N9/804B T04N9/82N4

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Classification Explorer

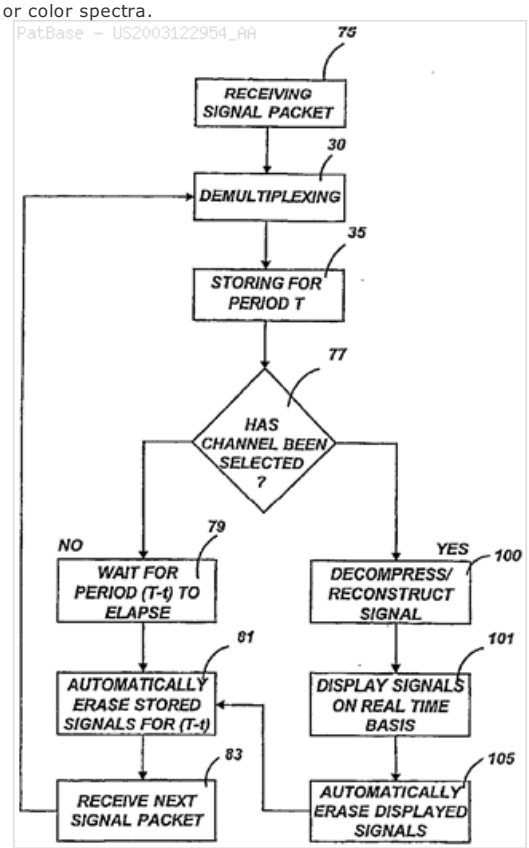
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Forward Citations: WO9859489, WO9851080, WO9714222, WO9712447, WO9712447, WO9427388, WO9424773, WO9414138, WO9316557, WO9311617, WO08067108, WO07123915, WO02067571, WO02067571, WO0167637, WO0120467, WO0104766, WO0008848, USRE45870, USRE44685, USRE44087, USRE42148, US9906828, US9902069, US9854199, US9849593, US9842192, US9826197, US9813641, US9800945, US9800823, US9788049, US9788029, US9785149, US9776327, US9769528, US9766624, US9715337, US9686578, US9648358, US9641873, US9610685, US9610417, US9602765, US9535563, US9521356, US9516369, US9510058, US9498886, US9496922, US9495969, US9483405, US9469030, US9438856, US9433387, US9429934, US9407891, US9392321, US9380346, US9375843, US9361664, US9361021, US9355681, US9326047, US9323250, US9296109, US9294785, US9288520, US9286294, US9264664, US9258592, US9251313, US9247260, US9240956, US9240917, US9219922, US9204203, US9198728, US9193065, US9174342, US9167178, US9160783, US9138891, US9130898, US9123084, US9099097, US9098611, US9089972, 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Abstract:
Source: US2003122954A An optical **apparatus** for capturing digital images, and for use, for example, as a video camera includes a lens system for providing at least one derivative of an impinging light signal with respect to at least one predetermined frequency. The lens system samples the light signal as a function of the amplitude of the light signal, and rotates at an angular speed proportional to a predetermined frequency for providing a derivative of the light signal with respect to a predetermined frequency. The lens system includes three lens systems for providing three derivatives of the impinging light signal with respect to three predetermined frequencies corresponding to the three lens systems. Each of the three lens systems samples the light signal as a function of the amplitudes of the light signal relative to its predetermined frequency. In one embodiment, these predetermined frequencies correspond to the red, green and blue colors or color spectra.



147) Family number: 3193874 (US5041087A)

Title: NEEDLE-LESS PARENTERAL **FLUID** **INJECTOR**

Priority: US19880231090 19880811 US19900503278 19900402 WO1989US03308 19890731 US19900531864 19900531

Family:

Publication number	Publication date	Application number	Application date
AU198939848 A1	19900305	AU19890039848	19890731
US5041087 A	19910820	US19900531864	19900531
US5127904 A	19920707	US19900503278	19900402
WO9001352 A1	19900222	WO1989US03308	19890731

Probable Assignee: GEORGE DH LOO

Assignee(s):(std)**:** GEORGE D H LOO ; LOO GEORGE D H ; WONG GORDON A

Assignee(s): LOO GEORGE DH ; GEORGE DH LOO ; LOO GEORGE D

Inventor(s):(std)**:** LOO GEORGE D H ; WONG GORDON A

Inventor(s): GORDON A WONG ; GEORGE D H LOO ; LOO GEORGE DH ; GEORGE DH LOO ; LOO GEORGE D

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

International class (IPC 8-9): A61M39/02 (Advanced/Invention); A61M39/02 (Core/Invention)

International class (IPC 1-7): A61M31/00 A61M5/00

CPC: Y10T137/7909 A61M39/02

European class: A61M39/02

US class: 137/533 251/149.6 604/247 604/83

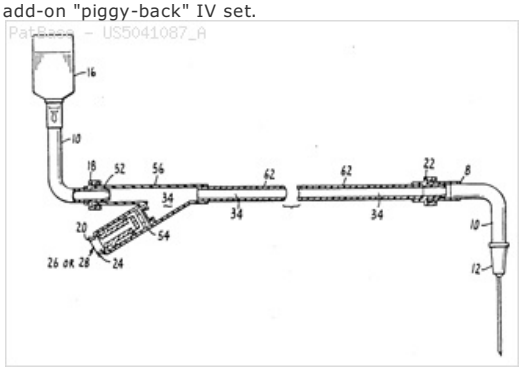
Classification Explorer

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Forward Citations: WO9617646, WO9404218, WO14183272, USRE43142, USRE35841, USD793551, USD786427, USD644731, US9884176, US9849274, US9750926, US9604047, US9533137, US9440060, US9415200, US9278206, US9259565, US9238129, US9205243, US9192753, US9186494, US9138572, US8968261, US8968238, US8876784, US8870850, US8864725, US8758306, US8647312, US8628515, US8568371, US8454579, US8444628, US8398607, US8377039, US8221391, US8105314, US8100869, US8002755, US7947032, US7914502, US7887519, US7879012, US7857284, US7837658, US7824393, US7815168, US7789864, US7766897, US7763199, US7753892, US7713250, US7635357, US7628774, US7571750, US7513890, US7497849, US7396348, US7384783, US7357792, US7285110, US7100890, US7025744, US7014169, US6964798, US6883778, US6881790, US6869426, US6755391, US6669681, US6650929, US6539248, US6528173, US6485454, US6399704, US6391404, US6371942, US6344033, US6297046, US6261282, US6039302, US6024220, US5976300, US5957898, US5935847, US5854347, US5827244, US5785693, US5755709, US5743894, US5738662, US5697904, US5693387, US5686527, US5655541, US5618268, US5575767, US5549577, US5533983, US5512043, US5433705, US5431185, US5407269, US5401245, US5380306, US5358490, US5356375, US5354272, US5301686, US5242432, US5215538, US5163922, US2015157844, US2012143150, US2011178468, US2009221975, US2009198209, US2008094020, US2007238337, US2007235674, US2007156118, US2007069406, US2006264899, US2006264841, US2006212003, US2006212002, US2006211999, US2006200088, US2006058741, US2005222541, US2005038397, US2004254529, US2004221904, US2004206924, US2004181192, US2004176738, US2004138626, US2004133171, US2004068239, US2004068238, US2003232800, US2003050610, US2002143300, FR2676121, EP2646137, EP1090650, EP1090650, EP0630661, CN105209089, CN105163773,

Abstract:

Source: US5041087A A **fluid** **injector** for use with a needle-less syringe or needle-less add-on IV **line** is disclosed. The **injector** is **connected** to a main IV **line** and has a **fluid** passageway from the syringe or the add-on IV set to the main IV **line**. The **injector** comprises an anti-backflow valve member where the member is movable under **fluid** pressure alone between a first position where the **fluid** can flow through the **injector** and a second position where the **fluid** cannot flow through the **injector**. The **injector** also comprises a valve located near the syringe end of the **injector** for receiving the **fluid** from the syringe or the add-on IV **line** for **injection** into the main IV **line** and for preventing air embolus entering into the IV **line**. The **injector** permits leaving a single or a group of drug filled syringes on **line** at all times with a continuously, rapidly flowing IV **line** and provides instantaneous "on demand" delivery of drugs or **fluids** from the syringe. The **injector** also prevents backflow of IV **fluid** into the syringe and automatically prevents air embolus from entering into the IV **line** whenever a syringe is removed from it for refilling it or replacing it with one containing another medication. The **injector** also permits addition of **fluids** to a continually flowing main IV stream manually, by pushing the plunger of the syringe by hand, mechanically, by using a programmed electronic infusion pump, or simply, by gravity drip from an add-on "piggy-back" IV set.



148) Family number: 18839092 (US5157112A)

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Title: ANTIBODIES IMMUNOREACTIVE WITH THE T-CELL GROWTH FACTOR, P40

Priority: CA19890611819 19890918 US19880246482 19880919 WO1991US00145 19910108
US19900462158 19900108 US19890408155 19890915 US19950447805 19950523

Family:

Publication number	Publication date	Application number	Application date
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DK458889 A0	19890918	DK19890004588	19890918
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WO9110738 A1	19910725	WO1991US00145	19910108

Probable Assignee: LUDWIG INST FOR CANCER RESEARCH

Assignee(s):(std)**:** LUDWIG INST CANCER RES ; LUDWIG INST FOR CANCER RESEARCH ; RES CORP TECHNOLOGIES INC ; RESEARCH CORP TECHNOLOGIES INC ; RESEARCH TECHNOLOGIES INC CORP

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Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; MCFADDEN FINCHAM; OSLER HOSKIN AND HARCOURT LLP; WOLFF BREGMAN AND GOLLER

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

International class (IPC 8-9): A61K31/7088 A61K38/00 A61K38/18 A61K38/20 A61K39/395 A61K48/00 A61P37/00 A61P37/04 A61P43/00 C07H21/00 C07H21/04 C07K1/20 C07K14/00 C07K14/435 C07K14/47 C07K14/475 C07K14/52 C07K14/54 C07K16/00 C07K16/22 C07K16/24 C07K19/00 C07K9/00 C12N1/21 C12N15/09 C12N15/18 C12N15/19 C12N15/24 C12N5/10 C12P21/02 C12P21/08 G01N33/53 G01N33/577 (Advanced/Invention);
A61K38/00 A61K39/395 A61P37/00 A61P43/00 C07K14/00 C07K14/435 C07K16/00 C07K19/00 C07K9/00 C12N1/21 C12N15/09 C12N5/10 C12P21/02 C12P21/08 C12R1/91 G01N33/53 G01N33/577 (Advanced/Non-invention)

International class (IPC 1-7): A61K31/565 A61K31/58 A61K31/585 A61K31/70 A61K31/7088 A61K37/02 A61K37/36 A61K38/00 A61K38/18 A61K38/20 A61K39/395 A61K48/00 A61P37/04 C07H21/00 C07H21/04 C07K1/00 C07K1/14 C07K1/18 C07K1/20 C07K13/00 C07K14/00 C07K14/47 C07K14/475 C07K14/52 C07K14/54 C07K15/00 C07K15/06 C07K15/14 C07K15/28 C07K16/22 C07K16/24 C07K3/22 C07K9/00 C12N1/00 C12N1/21 C12N15/00 C12N15/09 C12N15/12 C12N15/18 C12N15/19 C12N15/24 C12N15/63 C12N15/85 C12N15/86 C12N5/06 C12N5/10 C12P19/34 C12P21/00 C12P21/02 C12P21/08 C12R1/91 G01N33/50 G01N33/53 G01N33/577

CPC: Y10S530/808 Y10S930/14 Y10S930/141 C07K14/5425 A61K38/00 C07K16/244

European class: C07K14/54H C07K16/24F K61K38/00 M07K203/00 M07K207/00

US class: 424/85.1 424/85.8 435/172.2 435/252.31 435/252.33 435/320.1 435/325 435/348 435/419 435/69.5 435/69.52 435/70.21 435/70.3 514/12 514/13.5 514/21 514/7.6 514/8 530/351 530/387.9 530/388.23 530/389.2 530/395 530/397 530/399 530/412 530/416 530/417 530/808 536/23.1 536/23.5 536/23.51 930/140 930/141 935/89

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Cited documents: WO9114767 A1, WO9014362 A1, US5414071 A, US5208218 A, US5157112 A, US5006459 A, US4965195 A, US4935343 A, US4745051 A, US4636463 A, US4623622 A, US4401756 A, US4390623 A, EP0361284 A2, AU621661 B2,

Forward Citations: WO9708321, WO9406906, WO09086516, US9808512, US7919248, US7704710, US7700088, US7384767, US7371383, US7208292, US7192578, US7056698, US6645492, US6602850, US6261559, US6037149, US5908839, US5750377, US5643881, US5565349, US5565330, US5414071, US5250295, US5208218, US2011224406, US2009238817, US2009105453, US2008299134, US2008039401, US2007190609, US2006205035, US2004219149, US2004076607, EP1632248, EP1622568, EP1007093, EP0903150, EP0553198, EP0553198, EP0473724, EP0466854, AU645054, AU2007202406,

Abstract:
Source: US5157112A The present invention relates generally to a T cell growth factor. More particularly, the present invention relates to a T cell growth factor which comprises a glycoprotein which supports interleukin 2- and interleukin 4-independent growth of helper T cells especially from murine and human sources and further which is capable of augmenting proliferation of IL3- or IL4-responsive cells. Even more particularly, the present inventin relates to the helper T cell growth factor P40, pharmaceutical compositions thereof, antibodies thereto and recombinant DNA clones thereof. The present invention also contemplates a method for inducing the proliferation of helper T cells as well as IL3- and Il4-responsive cells. The helper T cells growth factor contemplated herein is useful in the stimulation of specific cells in the immune system, either alone or in combination with IL3 or IL4.

PatBase - US5157112_A

FIG. 1

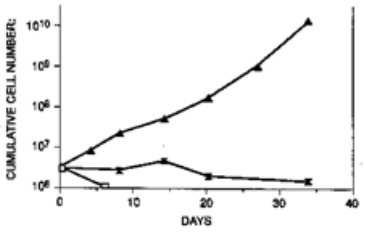
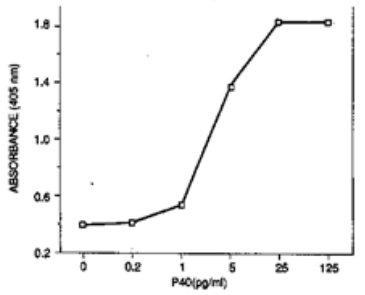


FIG. 3



149) Family number: 30116196 (US2002173045A)

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Title: METHOD FOR DETERMINING THE SIZE OF A SPHERICAL OR ELIPSOIDAL MOLECULE

Priority:

EP19960912538	19960403	JP19950510898	19940929	JP19960530444	19960403
US19950415710	19950403	US19930162379	19931207	US19890333531	19890405
US19920879551	19920504	US19880244897	19880915	US19930128996	19930930
WO1996US04550	19960403	US20030341576	20030113	US20020713898	20021018
US20020419884P	20021018	US20020132243	20020426	US20000713016	20001116
US20000710824	20001113	US19950415839	19950403	US20010962802	20010924
US19970855410	19970513	US20020238407	20020909	WO1994US11037	19940929

Family:

Publication number	Publication date	Application number	Application date
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AU199655321 A1	19961023	AU19960055321	19960403
AU698688 B2	19981105	AU19940078461	19940929
CA2173156 AA	19960329	CA19942173156	19940929
CA2173156 C	20071218	CA19942173156	19940929
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DE69025969 T2	19960808	DE19906025969T	19900403
EP0359589 A2	19900321	EP19890309423	19890915
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US2003124611 AA	20030703	US20030341576	20030113
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US6713263 BB	20040330	US20020238407	20020909
US7049074 BB	20060523	US20030341576	20030113
US8142708 BB	20120327	US20020713898	20021018
WO9510034 A2	19950413	WO1994US11037	19940929
WO9510034 A3	19950608	WO1994US11037	19940929
WO9631522 A1	19961010	WO1996US04550	19960403

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Assignee(s):(std)**:** DE PABLO JUAN J ; DIMALANTA EILEEN T ; KAANEGII INST OBU WASHINTON ; UNIV NEW YORK ; WISCONSIN ALUMNI RES FOUND ; SCHWARTZ DAVID C ; WISCONSIN ALUMNI ; WISCONSIN ALUMNI RESEARCH FOUNDATION ; NEW YORK UNIVERSITY ; CARNEGIE INST OF WASHINGTON

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Agent(s): FB RICE; FB RICE PTY LTD; GOWLING LAFLEUR HENDERSON LLP; SCHUESSLER ANDREA ET AL; QUARLES AND BRADY LLP; DEWITT ROSS AND STEVENS SC; JOSEPH T

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

International class (IPC 8-9): B29C33/40 C07H19/00 C07H21/00 C12M1/00 C12N15/09 C12Q1/68 G01B11/08 G01N1/10 G01N15/02 G01N15/10 G01N15/14 G01N21/64 G01N27/447 G01N33/44 G01N33/50 G02B21/00 H05B6/00 (Advanced/Invention);
C12M1/00 C12N15/09 G01B11/08 G01J3/42 G01N15/02 G01N15/10 G01N15/14 G01N21/76 G01N27/447 G01N33/50 (Advanced/Non-invention);
B29C33/40 C07H19/00 C07H21/00 C12M1/00 C12N15/09 C12Q1/68 G01N1/10 G01N15/02 G01N15/10 G01N15/14 G01N27/447 G01N33/50 H05B6/00 (Core/Invention);
G01N15/02 G01N15/10 G01N15/14 (Core/Non-invention)

International class (IPC 1-7): B01J19/08 B01L3/00 C07H19/00 C07H21/00 C07H21/02 C07H21/04 C12M1/00 C12M1/34 C12N15/00 C12N15/09 C12P19/34 C12Q1/68 C25B1/00 G01B11/08 G01J3/42 G01N1/30 G01N15/02 G01N15/06 G01N15/10 G01N15/14 G01N21/00 G01N21/31 G01N21/41 G01N21/62 G01N21/64 G01N21/76 G01N21/77 G01N21/84 G01N27/26 G01N27/447 G01N31/00 G01N31/22 G01N33/00 G01N33/48 G01N33/50 G02B21/00 G02B27/28 G06F19/00

CPC: C12Q1/6806 C12Q1/6834 G01N2015/1043 G01N2015/105 Y10S435/82 Y10S435/968 Y10S436/80 Y10S977/853 Y10T436/143333 C12Q1/6869 G01N21/6408 G01N21/6458 G01N21/76 G01N27/4473 G01N1/40 G01N1/30 G01N1/405 Y10T436/25 C12Q1/683 C12Q1/68 C12Q1/6841 G01N15/02 G01N15/10 G01N27/44704 G01N27/44721 G01N27/44773 G01N2015/0038 G01N2015/0288 G01N2015/1062 G01N2015/1081 G01N2015/1486 G01N2015/149 G01N2015/1495 G01N2015/1497

European class: C12Q1/68 C12Q1/68A4 C12Q1/68B10 C12Q1/68B14 C12Q1/68B6A G01N1/40 G01N15/02 G01N21/64P6 G01N21/64R G01N27/447B G01N27/447B3A G01N27/447C4 M12Q1/68E S01N1/30 S01N1/40D S01N1/40P S01N15/00N S01N15/02T S01N15/10G S01N15/10H S01N15/10P S01N15/10T S01N15/14P S01N15/14T S01N15/14W1 S01N15/14Y S01N21/76

US class: 204/299R 204/450 204/456 204/600 204/606 204/609 204/612 204/616 264/219 264/219S 264/435 264/435S 356/300 356/300S 356/317 356/317S 422/100 422/100S 422/129 422/186 422/400 422/400S 422/504 422/55 422/58 422/99 435/172.3 435/270 435/287.2 435/287.200S 435/6 435/6.1 435/6.100S 435/6.12 435/6.120P 435/6.16 435/6.160P 435/6.19 435/6P 435/6S 435/820 435/91.1 435/968 436/164 436/164P 436/174 436/174P 436/2 436/2S 436/543 436/545 436/546 436/800 436/94 536/23.1 536/23.100S 536/24.3 536/25.3 702/2 702/20 702/20S 935/76 935/77 977/853

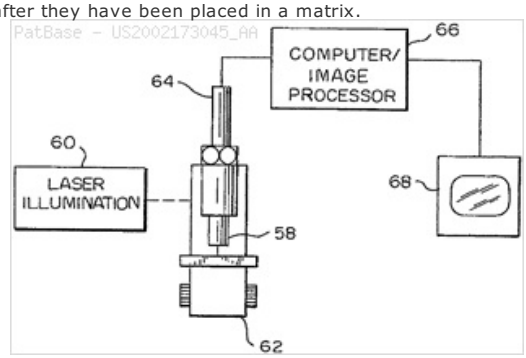
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Abstract:
Source: US2002173045A A method for observing and determining the size of individual molecules and for determining the weight distribution of a sample containing molecules of varying size, which involves placing a deformable or nondeformable molecule in a medium, subjecting the molecule to an external force, thereby causing conformational and/or positional changes, and then measuring these changes. Preferred ways to measure conformational and positional changes include: (1) determining the rate at which a deformable molecule returns to a relaxed state after termination of the external force, (2) determining the rate at which a molecule becomes oriented in a new direction when the direction of the perturbing force is changed, (3) determining the rate at which a molecule rotates, (4) measuring the length of a molecule, particularly when it is at least partially stretched, or (5) measuring at least one diameter of a spherical or ellipsoidal molecule. Measurements of relaxation, reorientation, and rotation rates, as well as length and diameter can be made using a light microscope **connected** to an image processor. Molecule relaxation, reorientation and rotation also can be determined using a microscope combined with a spectroscopic **device**. The invention is particularly useful for measuring polymer molecules, such as nucleic acids, and can be used to determine the size and map location of restriction digests. Breakage of large polymer molecules mounted on a microscope slide is prevented by condensing the molecules before mounting and unfolding the molecules after they have been placed in a matrix.



150) Family number: 29182077 (US4957108A)

Title: Method and **apparatus** for determination of chemical species in body **fluid**

Priority:

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Family:

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Probable Assignee: SUDORMED INC

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Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SIM AND MCBURNEY

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

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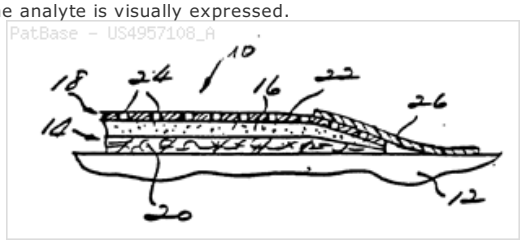
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Forward Citations:	WO9958190, WO9958051, WO9958050, WO9945140, WO9821578, WO9748441, WO9728772, WO9613193, WO9613193, WO9502357, WO9425945, WO9414062, WO9203731, WO17184705, WO17109464, WO17087852, WO17079758, WO17070641, WO17070640, WO17019573, WO17005537, WO16096520, WO15184084, WO15066459, WO14164842, WO14145904, WO14106595, WO14040090, WO14040090, WO13142211, WO13057470, WO13049380, WO12130488, WO12057673, WO12056729, WO11144900, WO11086486, WO11080427, WO11028965, WO11028965, WO10030609, WO09014700, WO09014700, WO08147347, WO06131931, WO06111748, WO06026020, WO06018166, WO06018166, WO05068016, WO05052543, WO05052543, WO04020983, WO04020983, WO04015539, WO03080791, WO03080791, WO03035167, WO03035166, WO03015636, WO0214832, WO02095401, WO02095401, WO0191626, WO0175444, WO0103576, WO0015102, WO0013713, WO0004822, WO0004822, USRE43399, US9901307, US9883823, US9877673, US9875340, US9874554, US9839395, US9804114, US9789005, US9775565, US9775551, US9752932, US9741139, US9730624, US9724028, US9717895, US9717449, US9710607, US9700245, US9693721, US9682186, US9642986, US9642602, US9636034, US9610034, US9603993, US9603992, US9597027, US9579496, US9576694, US9572527, US9572523, US9566026, US9551701, US9549699, US9549693, US9539318, US9513298, US9510778, US9504826, US9504405, US9498159, US9492091, US9480431, US9477811, US9474888, US9451913, US9439589, US9421352, US9420969, US9414777, US9339856, US9339238, US9339223, US9339222, US9332937, US9328371, US9327105, US9326716, US9326714, US9295417, US9265912, US9253987, US9248268, US9240965, US9226730, US9198609, US9192443, US9173607, US9173606, US9155713, US9149234, US9149233, US9135402, US9133024, US9119578, US9113836, US9110052, US9101311, US9079004, US9078607, US9072477, US9066697, US9066695, US9066694, US9042953, US9041541, US9039967, US9037229, US9033898, US9020573, US9014773, US9011419, US9011332, US9011331, US8998860, US8979724, US8974816, US8974386, US8968743, US8954128, US8941059, US8939947, US8932271, US8929968, US8920319, US8915850, US8915849, US8909314, US8880137, US8870810, US8846009, US8846008, US8840553, US8827971, US8821412, US8812071, US8808202, US8805478, US8792953, US8790583, US8788007, US8778387, US8774887, US8771613, US8765059, US8744546, US8744545, US8738109, US8734348, US8734346, US8712495, US8688188, US8682408, US8676288, US8672844, US8670815, US8668645, US8666469, US8660627, US8652043, US8649841, US8641688, US8641619, US8622906, US8617071, US8612159, US8608713, US8603052, US8597591, US8597189, US8585663, US8583204, US8569691, US8568315, US8562558, US8561795, US8560039, US8543184, US8538703, US8535711, US8527025, US8509871, US8480580, US8475837, US8473021, US8465425, US8448532, US8445010, US8417312, US8409510, US8409131, US8391945, US8386027, US8380273, US8372581, US8372005, US8366614, US8364228, US8357091, US8353829, US8346337, US8346336, US8337493, US8333874, US8329212, US8306598, US8290559, US8287483, US8287454, US8281675, US8277713, US8275439, US8273370, US8273022, US8268243, 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US5076273, US2017065231, US2016220161, US2015335287, US2015119756, US2014276220, US2014257064, US2014155780, US2014025104, US2013253295, US2013245577, US2013157380, US2013006066, US2012283529, US2012046529, US2012041338, US2012016999, US2011270127, US2011214482, US2011105952, US2011105871, US2011066130, US2011052664, US2010310596, US2010297213, US2010292551, US2010260821, US2010256524, US2010256465, US2010236341, US2010234702, US2010222753, US2010221313, US2010210932, US2010206746, US2010136707, US2010121169, US2010106097, US2010068250, US2010063372, US2010055162, US2010049021, US2010049016, US2010004524, US2009308742, US2009306610, US2009292183, US2009281404, US2009249958, US2009209828, US2009180936, US2009131778, US2009099427, US2009069651, US2009028208, US2008312518, US2008306362, US2008294069, US2008292499, US2008286874, US2008274495, US2008274014, US2008264810, US2008234562, US2008190411, US2008154149, US2008154107, US2008152592, US2008139964, US2008086060, US2007289360, US2007277147, US2007256679, US2007256678, US2007256677, US2007255197, US2007196622, US2007179371, US2007142721, US2007142263, US2007134740, US2007118070, US2007048361, US2007043538, US2007038053, US2007032721, US2007027383, US2007027380, US2007027379, US2007027378, US2007021663, US2007021662, US2007021661, US2007021660, US2007021659, US2007015982, US2007003993, US2006287215, US2006189856, US2006105420, US2006084888, US2006024757, US2006024723, US2006004271, US2005266577, US2005264815, US2005214892, US2005208677, US2005182307, US2005180881, US2005176136, US2005171413, US2005170448, US2005163717, US2005137469, US2005106713, US2005049157, US2005043648, US2005027179, US2004267189, US2004254546, US2004236268, US2004225206, US2004210184, US2004193030, US2004171980, US2004171968, US2004133090, US2004132171, US2004111697, US2004096957, US2004087873, US2004087671, US2004068680, US2004062759, US2004060661, US2004047902, US2004030228, US2004009580, US2003233055, US2003225362, US2003212317, US2003199788, US2003199745, US2003199743, US2003195403, US2003191376, US2003153821, US2003153820, US2003149377, US2003127508, US2003108542, US2003105391, US2003069482, US2003054026, US2002161323, US2002099308, US2002058902, US2002010414, JP5894078, JP2016136152, JP2015513104, JP2014512538, JP2014163845, JP2013517091, JP2013516203, JP2013509589, JP2013003040, JP2012193992, JP2010266203, JP2010053065, JP2006147472, JP2003014762, JP2003014761, GB2350190, GB2350190, FR2955024, FR2954911, ES2229915, EP3020398, EP2973536, EP2634556, EP2561347, EP2561347, EP2335598, EP2327359, EP2322092, EP2299275, EP2158885, EP2124053, EP1956371, EP1935347, EP1911488, EP1888001, EP1448263, EP1274999, EP1262559, EP1037687, EP1016433, EP0879036, EP0871393, EP0737442, EP0467695, EP0467695, DE19605028, DE102004039570, DE102004039570, CN103002811, CN102781381, CN102781381, CN102625686, AU767851, AU767851, AU752450, AU747324, AU677036, AU654823, AU2010289415, AU2007317418,

Abstract:
Source: US4957108A Disclosed is a method and **apparatus** for the non-invasive determination of one or more preselected analytes in a body **fluid** expressed through the skin. The **fluid** is collected in a dermal concentration patch and concentrated by driving off a portion of the substantial water fraction under the influence of body heat. The analyte is optimally complexed with an immobilized specific binding partner and an indicium of the presence of the analyte is visually expressed.



151) Family number: 4991809 (US5097841A)

Title: DISPOSABLE PRESSURE TRANSDUCER AND DISPOSABLE PRESSURE TRANSDUCER **APPARATUS**

Priority: CA19890612400 19890921 JP19880236484 19880922 US19890409015 19890918
JP19880236485 19880922 JP19890196512 19890731

Family:

Publication number	Publication date	Application number	Application date
AU198941603 A1	19900614	AU19890041603	19890920
AU611324 B2	19910606	AU19890041603	19890920
CA1326968 A1	19940215	CA19890612400	19890921
EP0360286 A2	19900328	EP19890117578	19890922
EP0360286 A3	19930303	EP19890117578	19890922
JP2086515 A2	19900327	JP19880236484	19880922
JP2167441 A2	19900627	JP19890196512	19890731
US5097841 A	19920324	US19890409015	19890918
US5105820 A	19920421	US19900605252	19901029

Probable Assignee: TERUMO CORP

Assignee(s):(std)**:** TERUMO CORP ; TOKAI RIKA CO LTD ; TOYOTA CENTRAL RES AND DEV ; TOYODA CHUO KENKYUSHO KK ; TONEN CORP

Assignee(s): TOYOTA CENTRAL RES AND DEV LAB INC ; TOYOTA CHUO KENKYUSHO KK ; TOKAI RIKA DENKI SEISAKUSHO KK ; GOTO YASUHIRO ; HASHIMOTO MASASHI ; HIROSE FUMIHISA ; IGARASHI ISEMI ; INAGAKI HAZIME ; TERUMO KK ; KABUSHIKI KAISHA TOKAI RIKA DENKI SEISAKUSHO ; KABUSHIKI KAISHA TOYOTA CHUO KENKYUSHO ; TERUMO KABUSHIKI KAISHA ; MINAMI KATSUHIRO ; NAKASHIMA ATSUSHI ; SUZUKI RITSUO ; MORIUCHI YOUSUKE

Inventor(s):(std)**:** GOTO YASUHIRO ; HASHIMOTO MASASHI ; HIROSE FUMIHISA ; IGARASHI ISEMI ; INACAKI HAZIME ; SUZUKI RITSUO C O KABUSHIKI KA ; NAKASHIMA ATSUSHI KABUSHIKI KA ; MORIUCHI YOUSUKE C O TERUMO KA ; MINAMI KATSUHIRO C O KABUSHIKI ; INAGAKI HAZIME KABUSHIKI KAISH ; IGARASHI ISEMI KABUSHIKI KAISH ; HIROSE FUMIHISA C O TERUMO KAB ; HASHIMOTO MASASHI C O KABUSHIK ; GOTO YASUHIRO C O KABUSHIKI KA ; SAKATE HIDEHIRO ; ISHIKAWA KIYOE ; FUJIMOTO JUNJI ; NAKASHIMA ATSUSHI ; INAGAKI HAZIME ; NAKAJIMA ATSUSHI ; MORIUCHI YOSUKE ; INAGAKI MASARU ; HASHIMOTO TADASHI ; MORIUCHI YOUSUKE ; MINAMI KATSUHIRO ; NAKASHIMA ATSUSI ; SUZUKI RITSUO

Inventor(s): SUZUKI RITSUO C O KABUSHIKI KAISHA TOKAI RIKA ; SUZUKI RITSUO C O TOKAI RIKA KK ; YASUHIRO GOTO ; YOUSUKE MORIUCHI ; RITSUO SUZUKI ; MINAMI KATSUHIRO C O KABUSHIKI KAISHA TOKAI RIKA ; MINAMI KATSUHIRO C O TOKAI RIKA KK ; MORIUCHI YOUSUKE C O TERUMO KABUSHIKI KAISHA ; MORIUCHI YOUSUKE C O TERUMO KK ; NAKASHIMA ATSUSHI KABUSHIKI KAISHA TOYOTA ; NAKASHIMA ATSUSHI TOYOTA KK ; INAGAKI HAZIME KABUSHIKI KAISHA TOYOTA ; INAGAKI HAZIME TOYOTA KK ; ISEMI IGARASHI ; KATSUHIRO MINAMI ; MASASHI HASHIMOTO ; IGARASHI ISEMI KABUSHIKI KAISHA TOYOTA ; IGARASHI ISEMI TOYOTA KK ; HIROSE FUMIHISA C O TERUMO KABUSHIKI KAISHA ; HIROSE FUMIHISA C O TERUMO KK ; HASHIMOTO MASASHI C O KABUSHIKI KAISHA TOKAI RIKA ; HASHIMOTO MASASHI C O TOKAI RIKA KK ; HAZIME INAGAKI ; GOTO YASUHIRO C O KABUSHIKI KAISHA TOKAI RIKA ; GOTO YASUHIRO C O TOKAI RIKA KK ; ATSUSHI NAKASHIMA ; FUMIHISA HIROSE

Agent(s): FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD; MACRAE AND CO

Designated states: BE DE FR GB IT NL SE

International class (IPC 8-9): A61B5/02 A61B5/021 A61B5/0215 A61B5/03 B65G27/00 B65G65/44 G01L9/00 G01L9/06 (Advanced/Invention);
A61B5/02 A61B5/0215 B65G27/00 B65G65/00 G01L9/00 (Core/Invention)

International class (IPC 1-7): A61B5/02 A61B5/021 A61B5/0215 A61B5/03 B65G27/00 B65G65/44 G01L9/00 G01L9/06

CPC: G01L19/148 A61B5/0215 G01L19/003 G01L19/0038 G01L19/0084 G01L19/142 A61B2562/0247

European class: A61B5/0215 G01L19/00B6 G01L19/00B8 G01L19/00E4 G01L19/14C G01L19/14F

US class: 128/673 128/675 128/748 600/486 600/488 600/561 73/708

Classification Explorer

Cited documents: US4970900 A, US4949723 A, US4947856 A, US4873986 A, US4834108 A, US4825876 A, US4819653 A, US4779625 A, US4776343 A, US4686764 A, US4683894 A, US4679567 A, US4658829 A, US4648868 A, US4644797 A, US4610256 A, US4576181 A, US4545389 A, US4517844 A, US4444198 A, US4431009 A, US4335729 A, US3581733 A, JP63195537 A2, JP62197730 A2, JP59097029, EP0328105 A2, EP0241294 B1, EP0232142 A2, EP0124308 A2, EP0120137 A1, EP0115548 A1, DE3227703 A1, AU606579 B2,

Forward Citations: WO9739679, WO9739679, WO9604846, WO15040619, WO13033524, WO11051903, WO07098893, WO06096136, WO06093819, WO03050491, WO0205710, USD424192, US9895527, US9855100, US9598280, US9488459, US9339337, US9295821, US9289173, US9285250, US9220834, US9066742, US8968345, US8817480, US8764668, US8591477, US8590555, US8302496, US8147463, US7905246, US7861608, US7617837, US7607355, US7604602, US7469582, US7389788, US7373826, US7267011, US7159465, US6986742, US6973836, US6673022, US6635020, US6378378, US6300778, US6279402, US6254815, US6117086, US6058934, US5993395, US5935083, US5897337, US5889212, US5823967, US5581038, US5573007, US5551300, US5540100, US5473937, US5459351, US5404125, US5382823, US5302933, US5279308, US5218965, US5147336, US2015202426, US2014103913, US2013324863, US2012152391, US2011146425, US2011114197, US2011031703, US2010200076, US2010114063, US2010113967, US2010056932, US2010019178, US2009240273, US2009125007, US2008229840, US2008053255, US2008022766, US2007074575, US2006288573, US2006195043, US2006180202, US2006075822, US2006009699, US2005205142, US2004173027, US2003122095, JP2014081351, JP2014068739, JP2008504522, EP2278868, EP0904008, EP0904008, EP0522567, EP0492837, DE4400941, DE102006008752, DE102006008752, CN105547532, CN105517485, CN103110414, CN103070677, CN103040456, CN103040456,

Abstract:
Source: US5097841A A disposable pressure transducer for measuring **fluid** pressure, which includes a sensor assembly (12) in a housing (11). The housing includes a **fluid** chamber (15) and a sensor-accommodating chamber (17) which are formed integrally with each other. The sensor assembly comprises: a sensor chip (18) for converting pressure into an electrical signal; an insulating board (19) on which the sensor chip is mounted and which is provided with an integrated-circuit for processing an output signal of the sensor chip so that an external measuring **device** can read the signal; a cylindrical **coupling** lid (20) which is bonded to the board in such a manner as to surround the sensor chip and which is fitted into a communication through-hole which provides communication between the **fluid** chamber and the sensor-accommodating chamber of the housing; a pressure-transmitting medium (21) charged into the interior of the **coupling** lid so as to provide electrical insulation between the **fluid** chamber and the sensor chip; and an electrical cable (22) **connected** to the board and electrically **connected** to the external measuring **device**.

PatBase - US5097841_A

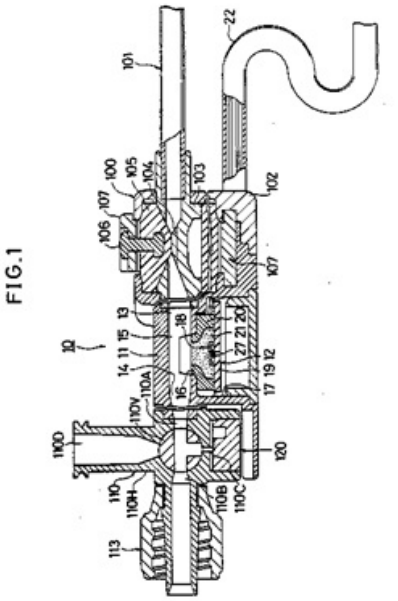


FIG.1

152) Family number: 3681693 (US4982466A)

Title: BODY SUPPORT SYSTEM

Priority:
AU19890044091 19891011 CA19892000534 19891012 EP19890911732 19891011
US19880256902 19881012 CA19892004338 19891130 CA19892127722 19891012
US19880278191 19881130 WO1989US04512 19891011 US19900631371 19901220

Family:

Publication number	Publication date	Application number	Application date
AT140371 E	19960815	AT19890200519T	19891011
AU198944091 A1	19900501	AU19890044091	19891011
AU199222880 A1	19921224	AU19920022880	19920909
AU626598 B2	19920806	AU19890044091	19891011
AU637954 B2	19930610	AU19920022880	19920909
CA2000534 AA	19900412	CA19892000534	19891012
CA2000534 C	19941213	CA19892000534	19891012
CA2004338 AA	19900531	CA19892004338	19891130
CA2004338 C	19961001	CA19892004338	19891130
CA2127722 AA	19900413	CA19892127722	19891012
CA2127722 C	19950725	CA19892127722	19891012
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DE68926863 T2	19970227	DE19896026863T	19891011
EP0440690 A1	19910814	EP19890911732	19891011
EP0440690 A4	19920311	EP19890911732	19891011
EP0606126 A2	19940713	EP19940200519	19891011
EP0606126 A3	19940810	EP19940200519	19891011
EP0606126 B1	19960717	EP19940200519	19891011
ES2016524 AF	19901101	ES19890003437	19891011
ES2017048 AF	19901216	ES19890003581	19891024
JP2823289 B2	19981111	JP19890510930T	19891011
JP4501074 T2	19920227	JP19890510930T	19891011
MX173145 B	19940202	MX19890017949	19891013
US4982466 A	19910108	US19880256902	19881012
US4986738 A	19910122	US19880278191	19881130
US5129115 A	19920714	US19910724850	19910702
WO9003750 A1	19900419	WO1989US04512	19891011

Probable Assignee: L AND P PROPERTY MANAGEMENT CO

Assignee(s):(std)**:** L AND P PROPERTY MANAGEMENT CO ; L AND P PROPERTY MANAGEMENT COMP ; LEGGETT AND PLATT

Assignee(s): LEGGETT AND PLATT INC ; LEGGETT AND PLATT INC CARTHAGE MO US ; LEGGETT AND PLATT INC NO 1 LEGGETT RD CARTHAGE MO ; SCOTT TERENCE A ; LEGGETT AND PLATT INC NO 1 LEGGETT RD CARTHAGE MO 64836 A CORP OF MO ; LEGGETT AND PLATT INC NO 1 LEGGETT ROAD CARTHAGE M ; LEGGETT AND PLATT INC NO 1 LEGGETT ROAD CARTHAGE MO 64836 A CORP OF MO ; HIGGINS LARRY ; KAWASAKI NOZOMU

Inventor(s):(std)**:** DAVIS WILTON J ; HIGGINS LARRY ; KENNEDY EARL W ; LARRY HIGGINS ; NOZOMU KAWASAKI ; SCOTT TERENCE ; TERENCE SCOTT ; SCOTT TERENCE A ; KAWASAKI NOZOMU

Inventor(s): TERENCE A SCOTT ; HIGGINS LARRY CARTHAGE MISSOURI 64836 US ; KAWASAKI NOZOMU TAKATSUKI CITY OSAKA JP

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; MACRAE AND CO

Designated states: AT AU BB BE BF BG BJ BR 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

International class (IPC 8-9): A47C27/08 A47C27/10 A61G7/05 F04B45/04 F04B49/08 G05D16/06 (Advanced/Invention); A47C27/08 A61G7/05 (Advanced/Non-invention)

International class (IPC 1-7): A47C27/08 F04B45/04 F04B49/08 G05D9/00

CPC: Y10T137/2607 Y10T137/7785 Y10T137/7794 A47C27/10 A47C27/082 A47C27/083 F04B49/08 G05D16/0605 G05D16/0655

European class: A47C27/08A4 A47C27/08A6 A47C27/10 F04B49/08 G05D16/06C G05D16/06H8D

US class: 137/116.3 137/498 137/505.11 417/304 5/446 5/453 5/455 5/470 5/713

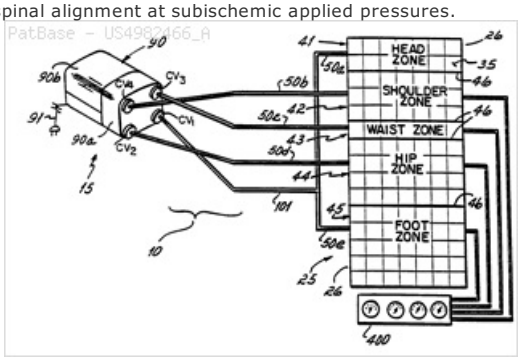
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Abstract:
Source: US4982466A An air bed comprising an air mattress having a plurality of interconnected rows and columns of air cells divided into longitudinally isolated zones, and an airflow control system for supplying air at differing pressures to the zones such that a person reclining atop the mattress is supported and maintained in spinal alignment at subischemic applied pressures.



153) Family number: 30541252 (US4938763A)

Title: BIODEGRADABLE IN-SITU FORMING IMPLANTS AND METHODS OF PRODUCING THE SAME

Priority:

AU19890045017 19890927	CA19890613406 19890927	EP19890912158 19890927
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Family:

Publication number	Publication date	Application number	Application date
AT151257 E	19970415	AT19890912158T	19890927
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USRE37950 E	20021231	US20000536579	20000328
WO9003768 A1	19900419	WO1989US04239	19890927
ZA8907511 A	19910626	ZA19890007511	19891003

Probable Assignee: TOLMAR THERAPEUTICS INC

Assignee(s):(std)**:** ATORITSUKUSU LAB INC ; ATRIX LAB ; ATRIX LAB INC ; DUNN RICHARD L ; ENGLISH JAMES P ; COWSAR DONALD R ; SOUTHERN RES INST ; SOUTHERN RESEARCH INST ; QUADRA LOGIC TECH INC ; VANDERBILT DAVID P ; ATRIX LABORATORIES INC

Assignee(s): ATRIX LABORATORIES INC FORT COLLINS COL US ; TOLMAR THERAPEUTICS INC ; SOUTHERN RESEARCH INST 2000 NINTH AVENUE SOUTH BIRMINGHAM AL 35205 ; TIPTON ARTHUR J ; SOUTHERN RESEARCH INST 2000 NINTH AVENUE SOUTH BIR ; QLT USA INC ; FUJITA SHAWN M ; ATRIX LOBORATORIES INC ; QLT INC ; ATRIX LABORATORIES

Inventor(s):(std)**:** COWSAR DONALD R ; DAVID P VANDERBILT ; DONALD R COWSAR ; DUNN RICHARD L ; ENGLISH JAMES P ; JAMES P ENGLISH ; RICHARD L DUNN ; SHAWN M FUJITA ; VANDERBILT DAVID D ; VANDERBILT DAVID P ; VANDERBILT DAVID ; ENGLISH JAMES ; DUNN RICHARD ; COWSAR DONALD ; ARTHUR J TIPTON ; TIPTON ARTHUR J ; SHIYOUN EMU FUJITA ; RICHIYAADO ERU DAN ; FUJITA SHAWN M ; DAN RICHAADO ERU ; COWSAR DONAL R ; AASAA JIEI TEIPUTON

Inventor(s): BANDAABIRUTO DEIBITSUDO PII ; KAUSAA DONARUDO AARU ; INGURITSUSHU JEIMUSU PII

Agent(s): GRIFFITH HACK; FINLAYSON AND SINGLEHURST; GOUDREAU GAGE DUBUC; REINHOLD COHN AND PARTNERS

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

International class (IPC 8-9): A61B19/00 A61D7/00 A61F2/00 A61F2/02 A61F2/30 A61K39/00 A61K39/395 A61K47/14 A61K47/30 A61K47/34 A61K9/00 A61K9/12 A61K9/20 A61K9/22 A61K9/48 A61K9/52 A61K9/70 A61L15/44 A61L15/62 A61L24/00 A61L24/04 A61L24/06 A61L26/00 A61L27/00 A61L27/16 A61L27/18 A61L27/26 A61L27/34 A61L27/50 A61L27/54 A61L27/58 A61L31/00 A61M31/00 A61M37/00
C08J3/02 (Advanced/Invention);
A61B19/00 A61F2/00 A61F2/02 A61F2/30 A61K39/00 A61K39/395 A61K9/22 A61L27/00 (Advanced/Non-invention);
A61B19/00 A61D7/00 A61F2/00 A61K9/00 A61K9/20 A61K9/22 A61K9/48 A61K9/52 A61L15/16 A61L24/00 A61L26/00 A61L27/00 A61L31/00 A61M31/00 A61M37/00 C08J3/02 (Core/Invention);
A61F2/02 A61F2/30 (Core/Non-invention);
C08J (Subclass/Invention)

International class (IPC 1-7): A61B19/00 A61D7/00 A61F13/00 A61F15/00 A61F2/00 A61F2/02 A61K31/74 A61K39/00 A61K39/395 A61K47/08 A61K47/30 A61K9/00 A61K9/08 A61K9/12 A61K9/20 A61K9/22 A61K9/48 A61K9/52 A61L15/22 A61L25/00 A61L27/00 A61L31/00 A61M31/00 A61M35/00 A61M37/00 C08J3/02 C08J3/24 C08L67/00 C08L69/00 C08L77/00

CPC: A61K9/7015 A61L26/00 A61L26/0085 A61L2300/402 A61L2300/412 A61L2300/414 A61K9/0019 A61K47/14 A61L2300/602 Y10S525/937 Y10S602/90 Y10S602/904 A61K9/0024 A61F2002/30062 A61F2002/30583 A61F2210/0004 A61F2210/0085 A61K47/34 A61L15/44 A61L15/62 A61L24/0015 A61L24/0026 A61L24/0042 A61L24/046 A61L24/06 A61L26/0019 A61L26/0066 A61L26/0076 A61L26/009 A61L27/16 A61L27/18 A61L27/26 A61L27/34 A61L27/50 A61L27/54 A61L27/58 A61L2300/25 A61L2300/252 A61L2300/404 A61L2300/406 A61L2300/41 A61L2300/604

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US class: 424/422 424/423 424/424 424/426 424/427 424/430 424/434 424/437 424/45 424/78.06 424/78.26 424/78.27 424/78.37 424/78.38 523/105 523/113 523/115 524/113 524/173 524/233 524/361 524/386 524/391 524/601 524/96 525/190 525/408 525/411 525/412 525/413 525/415 525/439 525/450 525/937 526/320 526/321 60/489.11 602/43 602/47 602/52 602/900 602/904 604/187 604/218 604/290 604/49 604/500 604/506 604/507 604/51 604/54 604/56 604/890.1 604/891.1

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Abstract:
Source: US4938763A A biodegradable polymer is provided for use in providing syringeable, in-situ forming, solid biodegradable implants for animals. The polymer is placed into the animal in liquid form and cures to form the implant in-situ. A thermoplastic system to form said implant comprises the steps of dissolving a non-reactive polymer in biocompatible solvent to form a liquid, placing the liquid within the animal, and allowing the solvent to dissipate to produce the implant. An alternative, thermosetting system comprises mixing together effective amounts of a liquid acrylic ester terminated, biodegradable prepolymer and a curing agent, placing the liquid mixture within an animal and allowing the prepolymer to cure to form the implant. Both systems provide a syringeable, solid biodegradable delivery system by the addition of an effective level of biologically active agent to the liquid before **injection** into the body.

FDA Data:

Application number	Active ingredient	Proprietary name	Applicant	Date of approval
021343	LEUPROLIDE ACETATE □□	ELIGARD □□	TOLMAR THERAP	Jan 23, 2002

021379	LEUPROLIDE ACETATE □□	ELIGARD □□	TOLMAR THERAP	Jul 24, 2002
021488	LEUPROLIDE ACETATE □□	ELIGARD □□	TOLMAR THERAP	Feb 13, 2003
021731	LEUPROLIDE ACETATE □□	ELIGARD □□	TOLMAR THERAP	Dec 14, 2004

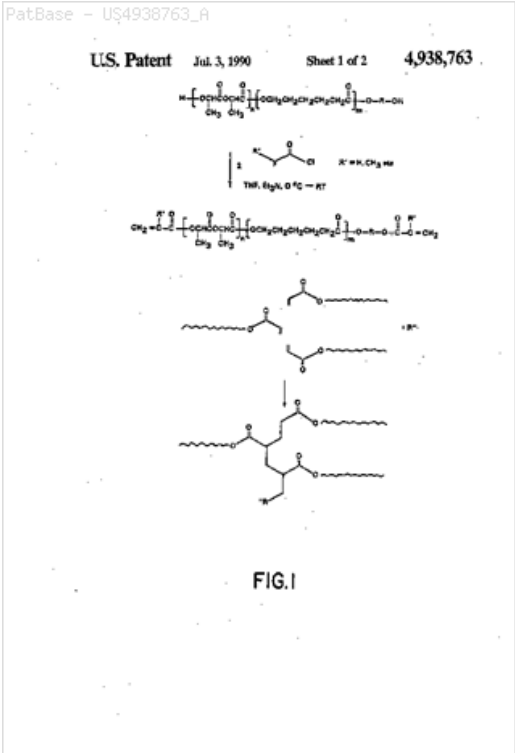


FIG.1

154) Family number: 2863918 (US5993813A)

Title: FAMILY OF HIGH AFFINITY, MODIFIED ANTIBODIES FOR CANCER TREATMENT

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Publication number	Publication date	Application number	Application date
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Probable Assignee: REPRESENTED BY SECRETARY OF DEPARTMENT OF HEALTH AND HUMAN SERVICES AS US GOV

Assignee(s):(std)**:** DOW CHEMICAL CO US ; DOW CHEMICAL CO

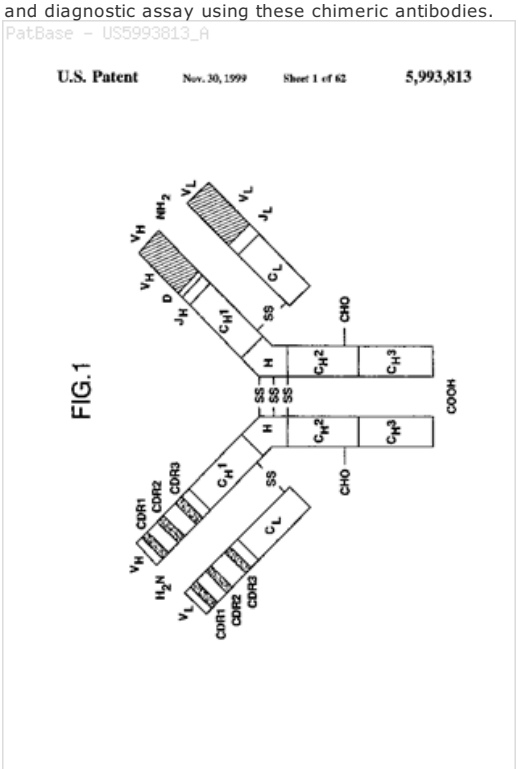
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Inventor(s):(std)**:** GOURLIE BRIAN ; GOURLIE BRIAN B ; GOURLIER BRIAN B ; KAPLAN DONALD A ; ANDERSON W H KERR ; MEZES PETER ; MEZES PETER S ; RICKSON MARK W ; RIXON MARK ; RIXON MARK W ; SCHLOM JEFFREY ; RIXON MARK US ; MEZES PETER US ; MARK RIXON ; GOURLIE BRIAN US ; BRIAN GOURLIE ; PETER MEZES

Inventor(s): MEZESU PIITAA ; RIXON MARK MIDLAND MICHIGAN 48640 US ; MEZES PETER MIDLAND MICHIGAN 48640 US ; GOURLIE BRIAN MIDLAND MICHIGAN 48640 US ; GOORII BURAIAN ; RIKUSON MAAKU ;

	PETER S MEZES ; BRIAN B GOURLIE ; BRIAN B GOURLIER ; MARK W RICKSON ; MARK W RIXON
Agent(s):	PHILLIPS ORMONDE FITZPATRICK; SMART AND BIGGAR; EITAN PEARL LATZER AND COHEN ZEDEK
Designated states:	AT AU BE BR CH DE DK ES FI FR GB GR HU IT JP KR LI LU NL NO SE
International class (IPC 8-9):	A61K31/495 A61K31/70 A61K38/00 A61K38/16 A61K39/00 A61K39/395 A61K39/44 A61K45/00 A61K47/48 A61K51/00 A61K51/10 A61P35/00 C07H15/12 C07H17/00 C07H21/04 C07K1/00 C07K14/00 C07K16/00 C07K16/30 C07K16/46 C07K19/00 C12N15/09 C12N15/13 C12N15/14 C12N15/85 C12N5/10 C12P21/00 C12P21/08 G01N33/531 G01N33/574 G01N33/577 (Advanced/Invention); A61K31/495 A61K31/70 A61K38/00 A61K39/395 A61K45/00 A61K51/00 A61P35/00 C07K14/00 C07K16/00 C07K19/00 C12N15/09 C12N15/13 C12N5/10 C12P21/00 C12P21/08 C12R1/91 G01N33/531 G01N33/574 G01N33/577 (Advanced/Non-invention); A61K31/495 A61K31/70 A61K38/00 A61K38/16 A61K39/00 A61K39/395 A61K39/44 A61K45/00 A61K47/48 A61K51/00 A61K51/02 A61P35/00 C07H15/00 C07H17/00 C07H21/00 C07K1/00 C07K14/00 C07K16/00 C07K16/18 C07K16/46 C07K19/00 C12N15/09 C12N15/13 C12N15/85 C12N5/10 C12P21/00 C12P21/08 G01N33/531 G01N33/574 G01N33/577 (Core/Invention); A61K38/00 (Core/Non-invention); C12N (Subclass/Invention)
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US class:	424/130.1 424/133.1 424/138.1 424/155.1 435/326 435/328 435/6 435/6.11 435/69.1 435/7.92 435/70.21 530/387.1 530/387.3 530/388.8 530/388.85 530/391.1 530/391.3 530/391.7 536/23.53
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Abstract:
Source: US5993813A This invention concerns a family of chimeric antibodies with high affinities to a high molecular weight, tumor-associated sialylated glycoprotein antigen (TAG-72) of human origin. These antibodies have (1) high affinity animal VH and VL sequences which mediate TAG-72 binding and (2) human CH and CL regions. They are thought to produce significantly fewer side-effects when administered to human patients by virtue of their human CH and CL antibody domains. The nucleotide and amino acid sequences of VH alpha TAG VH, CC46 VH, CC49H, CC83 VH, and CC92 VH, and CC49L, CC83 VL, and CC92 VL idiotype sequences are disclosed, as well as in vivo methods of treatment and diagnostic assay using these chimeric antibodies.



155) Family number: 9333611 (US4955377A)

Title: **Device** and method for heating tissue in a patient's body

Priority:

CA19892001628	19891027	US19880263815	19881028	US19900589346	19900927
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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: BOSTON SCIENTIFIC SCIMED INC

Assignee(s):(std)**:** LENNOX CHARLES D ; NODDIN RICHARD A ; SAHATJIAN RONALD ; PRUTECH RES AND DEV ; BO SUTON SAIENTEI FUITSUKU COR ; BOSTON SCIENT CORP

Assignee(s): BOSTON SCIENTIFIC A CORP OF DE CORP ; BOSTON SCIENTIFIC CORP ; BO SUTON SAIENTEI FUITSUKU CORP ; ABELE JOHN E ; R AND D FUNDING CORP ; PRUTECH RESEARCH AND DEVELOPMENT PARTNERSHIP II ; BOSTON SCIENTIFIC SCIMED INC ; BOSTON SCIENTIFIC TECHNOLOGY INC ; BOSTON SCIENTIFIC CORP NATICK MASS US ; BOSTON SCIENTIFIC CORP NATICK ; NARDELLA PAUL C ; JOSHI SHARAD H ; SCIMED LIFE SYSTEMS INC

Inventor(s):(std)**:** JOSHI SHARAD H ; LENNOX CHARLES ; LENNOX CHARLES E ; NARDELLA PAUL C ; SAHATJIAN RONALD ; NODDIN RICHARD A ; LENNOX CHARLES D ; ABELE JOHN E ; ABELE JOHN ; ABELE JOHN W

Inventor(s): EIBERU JOON II ; RENOTSUKUSU CHAARUZU DEII

Agent(s): SMART AND BIGGAR; BARRIGAR AND MOSS

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

International class (IPC 8-9): A61B17/22 A61B18/04 A61B18/08 A61F7/12 A61M25/00 A61M25/10 A61M29/02 A61N5/02 (Advanced/Invention);
A61B17/00 A61B17/22 A61B18/04 A61B19/00 A61F2/958 A61M25/00 (Advanced/Non-invention)

International class (IPC 1-7): A61B17/00 A61B17/22 A61B17/36 A61B17/38 A61B19/00 A61F7/12 A61M25/00 A61M25/10 A61M29/02 A61M29/02 A61N5/02

CPC: A61F7/123 A61M25/10 A61M2205/366 A61B2090/063 A61B2090/064 A61B17/22 A61B2017/00022 A61B2017/00084 A61B2017/00088 A61B2017/00132 A61B2017/00274 A61B2017/00482 A61B2017/22002 A61B2017/22062 A61B2018/0022 A61B2018/00547 A61B2018/00559 A61B2018/00577 A61B2018/00791 A61B2018/044 A61M25/104 A61B18/08 A61B18/082 A61M2025/0002 A61M25/10185 A61M25/10184 A61M25/10186 A61M25/10188

European class: A61B17/22 A61B18/08 A61B18/08B A61F7/12B A61M25/10P K61B17/00C1 K61B17/00C1T K61B17/00C1T2 K61B17/00C3 K61B17/00E1P K61B17/00K2 K61B17/22 K61B17/22A2 K61B17/22H6 K61B18/00B14A K61B18/00F13 K61B18/00F16 K61B18/00G1 K61B18/00H12B K61B18/04C K61B19/46F K61B19/46H K61M205/36L K61M25/00A1 K61M25/10 K61M25/10E

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Classification Explorer

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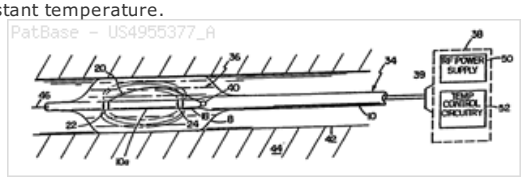
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Abstract:
Source: US4955377A **Device** and method for heating tissue, the **device** having a catheter shaft for insertion into a patient's body, a chamber formed by a collapsible balloon mounted on the catheter shaft and filled with an electrically conductive **fluid**, two or more electrical contacts enclosed within the chamber, a power supply for applying an electrical potential to the contacts, and a two or more conductors for **connecting** each of the contacts to the power supply. The **fluid** is heated on the basis of I2R losses by a radio frequency electric current flowing between the electrodes, and the **fluid** in turn heats the surrounding tissue by heat transfer through the wall of the chamber. According to the method, the **apparatus** is inserted into the patient's body, the chamber is filled with an electrically conductive **fluid**, and an electrical potential is applied to the contacts. The **apparatus** functions as a temperature source. A thermister sensor in the balloon or in contact with tissue responds to the heating effect to control the application of the current. Advantageously, by periodic sensing of temperature, and application of controlled rf power, a preset constant temperature is maintained at the selected sensing point, either at the internal body site or the liquid within the balloon. In this way carefully controlled therapy can be conducted at constant temperature.



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Title: PRODUCTS AND METHODS FOR CONTROLLING THE SUPPRESSION OF THE NEOPLASTIC PHENOTYPE

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Probable Assignee: CANJI INC

Assignee(s):(std)**:** CANJI INC ; CATERPILLAR PAVING PROD ; UNIV CALIFORNIA ; THE REGENTS OF THE UNIVERSITY OF CALIFORNIA ; THE UNIV OF CALIFORNIA ; REGENST OF UNIV OF C ; REGENTS OF THE UNIVERSITY OF CALIFORNIA THE ; REGENST OF THE UNIVERSITY OF C ; UNIVESITY OF CALIFORNIA THE

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Inventor(s):(std)**:** DAVID W GOODRICH ; DUANE JOHNSON ; EBUA WAI EICHI PII RII ; CHEN PHANG LANG ; EVA Y H P LEE ; EVA YHP LEE ; FRIEDMANN THEODORE ; FUAN RAN CHEN ; FUAN RAN CHIEN ; GOODRICH DAVID ; GOODRICH DAVID W ; GOODRICH W ; GREGORY RICHARD J ; H MICHAEL SHEPARD ; H P LEE EVA Y ; HUANG HUEI JEN ; HUANG HUEI JEN S ; HUANG HUEI JEN SU ; JOHNSON DUANE ; LEA WEN HWA ; LEE EVA ; HUANG HUEI JEN SUE ; LEE EVA Y H P ; LEE EVA Y P ; LEE EVA YHP ; LEE WEN HAW ; LEE WEN HWA ; LEE Y ; LENT KEVIC ; LENT KEVIC C ; SHEPARD H MICHAEL ; SHEPARD H MICHAEL AND ; UEN HOA RII ; UEN HOUA RII ; WANG NAN PING ; WANG NANG PING ; WEN HAW LEE ; WEN HWA LEE ; WEN HWO LEE ; WILLS KEN N ; YEE JIING KUAN ; LENT KEVIN C ; MANEVAL DANIEL C ; NAN P WANG ; NAN PING WANG ; NANG PING WANG ; PHANG LANG CHEN

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Designated states: AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK ES FI FR GA GB GN GR HU IE IT JP KP KR KZ LI LK LU LV MC MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SK SN SU TD TG UA UZ VN

International class (IPC 8-9): A01K67/027 A61K31/70 A61K35/00 A61K37/02 A61K38/00 A61K38/17 A61K38/22 A61K48/00 A61K49/00 A61P35/00 A61P43/00 C07K14/00 C07K14/435 C07K14/47 C07K14/52 C07K16/18 C12N15/09 C12N15/12 C12N15/85 C12N15/86 C12N15/866 C12N15/89 C12N5/00 C12N5/02 C12N5/06 C12N5/10 C12N7/00 C12N9/16 C12P21/02 C12P21/04 C12Q1/00 C12Q1/68 E01C23/08 E01C23/088 G01N33/567 G01N33/574 (Advanced/Invention);
A01K67/027 A61K38/00 A61K38/22 A61K48/00 A61K49/00 A61P35/00 A61P43/00 C07K14/00 C07K14/435 C12N15/09 C12N15/12 C12N5/10 C12N7/00 C12P21/02 C12Q1/00

C12R1/91 (Advanced/Non-invention);
A01K67/027 A61K35/00 A61K38/00 A61K38/22 A61K48/00 A61P35/00 A61P43/00 C07K14/00 C07K14/435 C07K16/18 C12N15/09 C12N15/12 C12N15/85 C12N15/86 C12N15/866 C12N15/87 C12N5/00 C12N5/06 C12N5/10 C12N7/00 C12N9/16 C12P21/02 C12P21/04 C12Q1/68 E01C23/00 G01N33/567 G01N33/574 (Core/Invention);
A61K38/00 A61K48/00 (Core/Non-invention);
C07K C12N (Subclass/Invention)

International class (IPC 1-7): A01K67/00 A01K67/027 A61K31/70 A61K37/02 A61K38/00 A61K38/16 A61K38/17 A61K38/22 A61K39/395 A61K45/05 A61K48/00 C12N15/00 C12N15/10 C12N15/86 C12N5/06 C12N5/08

CPC: A01K2267/01 C07K14/4738 C12N5/00 C12N2501/998 C12N2510/00 E01C23/088 A61K38/1709 A61K48/005 C12N2710/10043 Y10S436/813 Y10S530/828 C12Q2600/156 C12Q2600/158 A01K2207/15 A01K2217/00 C12N15/86 C12N2710/14143 C07K14/4736 C12N15/8509 A01K67/0271 A01K67/0276 A01K2217/05 A01K2217/075 A01K2227/105 A01K2267/0331 A61K48/00 C07K14/47 C07K14/4746 C07K16/18 G01N33/567 G01N33/574 G01N33/5748 C12Q1/6876 A61K38/00 C12N9/16 C12N2799/026 C12Q1/6883 C12Q1/6886

European class: A01K67/027A3C A01K67/027B A01K67/027M2 A61K48/00 C07K14/47 C07K14/47A24 C07K14/47A26 C07K14/47A32 C07K16/18 C12N15/85A C12N15/86 C12N5/00 C12N9/16 C12Q1/68M C12Q1/68M6 C12Q1/68M6B E01C23/088 G01N33/567 G01N33/574 G01N33/574T K01K207/15 K01K217/00 K01K217/05 K01K217/07B K01K227/10M K01K267/01 K01K267/03C K61K38/00 K61K48/00 M07K203/00 M07K205/00 M07K207/00 M12N207/00 M12N501/998 M12N510/00 M12N710/10043 M12N710/14143 M12N799/02A66

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Classification Explorer

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Forward Citations: WO9950287, WO9950287, WO9921967, WO9911817, WO9837091, WO9837091, WO9832866, WO9821228, WO9813489, WO9747745, WO9742377, WO9737014, WO9620207, WO9616676, WO9614877, WO9514101, WO9511301, WO9507708, WO9507708, WO9421115, WO9416066, WO9412202, WO9406910, WO9401467, WO9324525, WO9216656, WO9213103, WO17011160, WO13096094, WO04094996, WO04094996, WO04016776, WO03064770, US9879391, US9879390, US9782437, US9523176, US9493498, US9464391, US9428768, US9416501, US9404228, US9289451, US9231220, US9180909, US9115374, US9096976, US8973688, US8906893, US8888194, US8835614, US8809350, US8809020, US8690474, US8632132, US8551970, US8524500, US8511932, US8506947, US8440396, US8431119, US8308395, US8292371, US8168587, US8163524, US8128177, US8043835, US8030031, US7972817, US7946788, US7910545, US7905682, US7888097, US7888096, US7785842, US7767423, US7732129, US7709233, US7678570, US7534769, US7510875, US7468425, US7445930, US7422391, US7384735, US7273854, US7267955, US7241876, US7238523, US7235391, US7223842, US7208313, US7138378, US7125706, US7109179, US7105156, US7070943, US7060688, US7033750, US6998117, US6965009, US6905873, US6902731, US6861506, US6830749, US6828431, US6805858, US6800617, US6797702, US6740320, US6726907, US6713457, US6677312, US6660830, US6656480, US6638762, US6627189, US6569833, US6551587, US6521455, US6511847, US6489105, US6476206, US6410029, US6410010, US6403766, US6384299, US6379927, US6348352, US6331524, US6326483, US6251398, US6184038, US6160106, US6152648, US6143290, US6140058, US6103877, US6069134, US6063567, US6054467, US6017735, US6017524, US5912236, US5879056, US5858771, US5851991, US5847083, US5830676, US5821070, US5811299, US5756668, US5747650, US5747469, US5744303, US5726024, US5721340, US5710255, US5693536, US5688918, US5679641, US5578701, US5576422, US5573925, US5571905, US5569824, US5550020, US5496731, US5445938, US5330892, US5093261, US2015137577, US2013261708, US2012200138, US2011266858, US2011206456, US2011193397, US2011142818, US2011130444, US2011104118, US2010324126, US2010159464, US2010065290, US2009311045, US2009291438, US2009233276, US2009136942, US2009111097, US2009035064, US2008286784, US2008261292, US2008096217, US2008057502, US2008050783, US2008032284, US2007280925, US2007190040, US2007154458, US2007026427, US2007009934, US2006228729, US2006204989, US2006182718, US2006166229, US2006035857, US2006018880, US2005207841, US2005095226, US2005089511, US2005079163, US2005069906, US2005042694, US2005003440, US2004235039, US2004014709, US2003216758, US2003181403, US2003166603, US2003077250, US2003012770, US2002111502, RU2468141, JP6141882, JP4677333, JP2006131639, FR2843526, FR2817922, FR2774402, FR2712602, EP2886719, EP2698475, EP2354310, EP2354310, EP2181704, EP1741777, EP1526174, EP1276860, EP1161262, EP0960941, EP0891423, EP0836659, EP0804613, EP0685493, EP0682698, EP0682698, EP0666312, EP0652232, EP0580596, EP0577028, EP0569527, EP0529160, EP0527804, EP0440744, CN102304891, CN102304891, CN102191744, CN102191744, AU2013204694,

Abstract:
Source: US2003181403A A method for gene therapy for cancers wherein chromosomal location of an inactive or defective cancer suppressing gene is established, a replacement gene which is preferably cloned is then used to replace the inactive or defective cancer suppressing gene in the chromosome. In addition to its uses in therapy, the present invention provides a means for prophylactically treating individuals having a genetic predisposition to cancer and provides an animal model for testing for carcinogenicity of environmental substances.

PatBase - US2003181403_AA

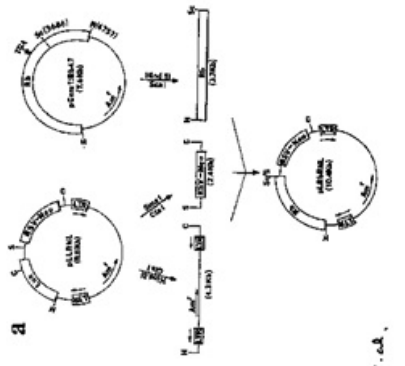


Fig. 1
Huang et al.

157) Family number: 12522527 (US4946445A)

Title: INTRAVENOUS **LINE COUPLING DEVICE**

Priority:
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US19880240539 19880906 US19900509638 19900417 US19900509639 19900417
US19940361694 19941222 US19920982644 19921201 US19900515466 19900427

Family:

Publication number	Publication date	Application number	Application date
AU199175102 A1	19911024	AU19910075102	19910417
AU650448 B2	19940623	AU19910075102	19910417
CA2001732 AA	19900430	CA19892001732	19891030
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Probable Assignee: LARKIN MARK E

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Inventor(s): MARK E LARKIN ; LAWRENCE A LYNN

Agent(s): FB RICE; FB RICE PTY LTD; GOUDREAU GAGE DUBUC

Designated states: AT BE CH DE DK ES FR GB GR IT LI LU NL SE

International class (IPC 8-9):
A61J1/05 A61M39/02 A61M39/04 A61M39/10 A61M39/14 A61M5/158 A61M5/32 F16L37/133 (Advanced/Invention);
A61J1/00 A61J1/05 A61J1/10 A61J1/20 A61M39/02 A61M5/31 (Advanced/Non-invention);
A61M39/00 A61M39/02 A61M5/14 A61M5/32 F16L37/00 (Core/Invention);
A61J1/00 A61J1/05 A61J1/10 A61J1/14 A61M5/31 (Core/Non-invention)

International class (IPC 1-7): A61M25/00 A61M39/00 A61M39/02 A61M39/04 A61M5/00 A61M5/32 F16L37/12

CPC: Y10S604/905 A61M39/105 A61M2039/1033 A61M2039/1083 A61M5/158 A61J1/2096 A61M5/3213 A61M39/04 A61M39/14 A61M2005/3109 A61M39/1011 A61J1/10 A61J1/1475 A61M2039/1027 A61M2039/1066 A61M2039/1072 A61J1/201 A61J1/2058

European class: A61M39/04 A61M39/10B A61M39/10M A61M39/14 A61M5/158 A61M5/32C2B F16L37/133 K61J1/00M6 K61J1/05B2 K61J1/10 K61J1/14P K61J1/20A2A K61J1/20A6C K61J1/20F K61M39/10F K61M39/10G K61M39/10U K61M39/10V K61M39/10X K61M5/31A3E2

US class: 604/192 604/251 604/263 604/283 604/414 604/533 604/535 604/536 604/86 604/905

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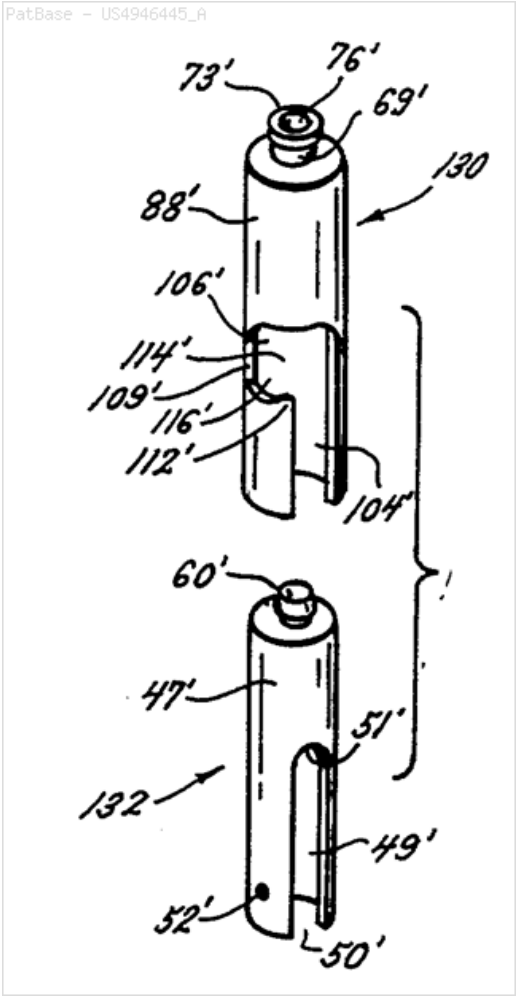
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Forward Citations: WO9736636, WO9705921, WO9700702, WO9324095, WO9303787, WO9221163, WO9219314, WO9204063, WO9107206, WO17165779, WO17056477, WO15108495, WO09038505, WO09035383, WO08150671, WO07069907, WO03092787, WO0002618, WO0002618, USD793551, USD786427, USD682415, USD655807, USD644731, USD637713, USD611144, USD579541, USD576267, USD554253, USD506256, US9884176, US9814652, US9750926, US9731097, US9724127, US9700700, US9694130, US9682196, US9669180, US9604034, US9585647, US9585646, US9579452, US9579091, US9566384, US9555221, US9555180, US9554786, US9533137, US9533092, US9532927, US9498196, US9486191, US9456811, US9440060, US9440051, US9415200, US9415159, US9414824, US9414820, US9402625, US9398914, US9393353, US9375552, US9364209, US9348975, US9332976, US9320869, US9320522, US9314230, US9309020, US9295764, US9295469, US9282965, US9278206, US9278173, US9271707, US9254373, US9241696, US9238129, US9211379, US9205243, US9192753, US9186494, US9186480, US9173644, US9168203, US9149621, US9149276, US9125980, US9089674, US9089311, US9072829, US9060769, US9050087, US9050068, US9039672, US9017290, US8956388, US8956330, US8945057, US8939938, US8926656, US8926633, US8926583, US8926563, US8920442, US8905937, US8893947, US8882725, US8882700, US8870850, US8858594, US8852168, US8834422, US8821534, US8820602, US8808310, US8790330, US8790311, US8784447, US8777504, US8771254, US8771234, US8758400, US8758399, US8758398, US8758396, US8758306, US8728119, US8715250, US8690910, US8679067, US8672953, US8657852, US8657803, US8657788, US8647301, US8636721, US8636706, US8628515, US8628497, US8622985, US8617184, US8617138, US8608705, US8603136, US8603116, US8597325, US8597237, US8590760, US8585836, US8585655, US8579932, US8562583, US8562567, US8556932, US8556930, US8545475, US8529587, US8523840, US8523838, US8518057, US8511352, US8500716, US8491544, US8486108, US8486092, US8486024, US8486003, US8480646, US8469995, US8454650, US8454579, US8444628, US8439838, US8430850, US8398676, US8398656, US8398607, US8381776, US8377012, US8337484, US8337475, US8336587, US8328772, US8323312, US8313497, US8303624, US8303572, US8303549, US8287516, US8287513, US8273061, US8257390, US8257345, US8246588, US8236026, US8235971, US8226681, US8225826, US8221391, US8221363, US8221355, US8206376, US8202294, US8202293, US8202283, US8192459, US8182497, US8177772, US8177771, US8177770, US8177756, US8172805, US8172803, US8167864, US8162892, US8162013, US8152771, US8152769, US8128644, US8114046, US8105314, US8083729, US8083728, US8075550, US8066630, US8062250, US8052649, US8048108, US8043280, US8043249, US8029747, US8012126, US8002765, US7998131, US7988683, US7985199, US7981090, US7975733, US7967792, US7942860, US7931669, US7931627, US7931615, US7918873, US7905900, US7901428, US7892216, US7887563, US7887555, US7887548, US7887515, US7883502, US7879071, US7875020, US7875019, US7867249, US7867215, US7867200, US7867199, US7857828, US7854810, US7854731, US7850797, US7850709, US7842068, US7841502, US7824393, US7819895, US7806910, US7806904, US7802824, US7763199, US7753338, US7744572, US7744570, US7744568, US7722576, US7722575, US7717887, US7717886, US7717885, US7717884, US7717883, US7713249, US7713248, US7713247, US7708714, US7670322, US7658734, US7654484, US7651481, US7648494, US7635357, US7632243, US7628782, US7628774, US7628772, US7621395,

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Abstract:
Source: US4946445A A **medical** intravenous **line** **coupling** **device** can be secured to standard "y" shaped junction tube. The **device** can comprise a single member which fits with the junction tube and has passages shaped to receive and secure with the junction arm. A "b" shaped slot can be provided in the member for that purpose. The container can have a menas for receiving a liquid for **injection** into the intravenous system, such as a receptacle, and a means for allowing liquid flow from the receiver into the junction tube, such as a needle. The **device** may include a second member which has a passage to interact with the junction arm. One member can fit about the other and be rotatably mounted hereto. The junction arm can be received by the two members when they are in a first position relative to one another, and can be secured when the members are moved relative to each other. With the two member assembly, the receiver, such as the receptacle, and the liquid flow means, such as the needle, can be mounted to the first or second member. Structure, such as a nib projecting into a slot, can be provided to resist movement of the arm out of a secure relationship. Means, such as an interacting projection and a recess, can hold the two members in the more secure position.

PatBase - US4946445_A



158) Family number: 8837843 (US5120501A)

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Title: INTEGRATED MEMBRANE BLOOD OXYGENATOR/HEAT EXCHANGER

Priority: CA19890614661 19890929 US19880260164 19881020 US19920971717 19921104
US19930024998 19930302 US19920848897 19920310 US19900516960 19900430
WO1989US04526 19891010 WO1991US03058 19910430

Family:

Publication number	Publication date	Application number	Application date
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CA1333554 A1	19941220	CA19890614661	19890929
CA2081206 AA	19921022	CA19912081206	19910430
CN1042082 A	19900516	CN19891008518	19891019
DE68913755 D1	19940414	DE19896013755	19891010
DE68913755 T2	19941027	DE19896013755T	19891010
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JP1898147 C3	19950123	JP19890511269	19891010
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WO9116967 A1	19911114	WO1991US03058	19910430

Probable Assignee: JOSTRA BENTLEY INC

Assignee(s):(std)**:** BAXTER INT

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Inventor(s):(std)**:** BRINGHAM RICHARD ; BRINGHAM RICHARD L ; KARSHMER DAVID ; KARSHMER DAVID L ; MATHEWSON WIFRED ; MATHEWSON WIFRED F ; MATHEWSON WILFRED ; MATHEWSON WILFRED F ; RITGER PHILIP ; RITGER PHILIP L

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Agent(s): SIM AND MCBURNEY

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

International class (IPC 8-9): A61M1/14 A61M1/16 A61M1/18 A61M1/36 B01D63/02 B01D63/04 (Advanced/Invention);
A61M1/14 A61M1/36 (Advanced/Non-invention);
A61M1/16 A61M1/36 B01D63/02 B01D63/04 (Core/Invention)

International class (IPC 1-7): A61M1/14 A61M1/16 A61M1/18 A61M1/20 A61M1/36 B01D63/02 F28F21/06

CPC: Y10S128/03 Y10S261/28 B01D2313/105 B01D2313/125 B01D2313/38 B01D63/026 B01D2313/14 B01D69/084 B01D63/04 A61M1/1625 A61M1/1629 A61M1/1698 B01D63/02

European class: A61M1/16S B01D63/02 B01D63/04 B01D69/08E K61M1/16B1C K61M1/16B2

US class: 128/DIG.3 165/101 165/141 165/154 165/179 165/182 165/183 210/321.6 210/321.8 210/321.81 210/321.9 210/492 210/496 210/499 210/500.23 261/DIG.28 422/46 422/47 422/48 95/46 96/6

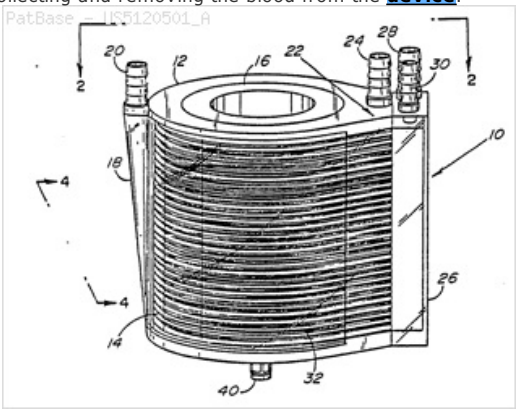
Classification Explorer

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Forward Citations: WO9819721, WO9719714, WO9534373, WO9526488, WO9516174, WO9423828, WO9408640, WO9305828, WO9305828, WO9116967, WO15095334, WO15038502, WO13014276, USRE36774, USD652900, USD648426, US9738860, US9595206, US9541302, US9498320, US9468557, US9452383, US9427699, US9408960, US9402943, US9320844, US9278168, US9190344, US9181082, US9162022, US8980176, US8951302, US8906300, US8889084, US8865466, US8865090, US8795220, US8777832, US8685320, US8652406, US8647569, US8642336, US8609022, US8591597, US8585968, US8545754, US8491561, US8480971, US8480970, US8357528, US8266791, US8176630, US8173361, US8147562, US8097456, US7960166, US7927544, US7776021, US7759113, US7749435, US7670797, US7122151, US6776820, US6723284, US6613279, US6508983, US6423269, US6423268, US6348175, US6312647, US6217826, US6113782, US6106776, US6001306, US5997816, US5922201, US5900142, US5888611, US5876667, US5830370, US5817278, US5779897, US5762868, US5753173, US5747138, US5718869, US5706889, US5640995, US5634892, US5609632, US5591404, US5514335, US5480553, US5429184, US5421405, US5411705, US5395468, US5358689, US5338512, US5297234, US5263924, US5255734, US5236665, US2015174311, US2015107455, US2013341264, US2013004386, US2012304862, US2012121463, US2011206558, US2011186165, US2011140300, US2011135817, US2011132535, US2011082563, US2010290947, US2010274353, US2010267136, US2010252528, US2010252235, US2010234678, US2010224559, US2010101657, US2009274585, US2009274584, US2009274582, US2009274581, US2009269245, US2009234332, US2009181200, US2008124242, US2008026464, US2008014115, US2007281353, US2007183933, US2007166190, US2007020142, US2006136182, US2006019326, US2005202557, US2005163656, US2004219061, US2004000232, JP4825796,

EP0876171, EP0598909, EP0465506, CN105899245, CN103842002, CN103381277, CN102753211, CN102753211,

Abstract:
Source: US5120501A A **device** including an integrally formed membrane oxygenator and heat exchange **device** positioned in a single housing. The **device** includes a thermally conductive body formed with a plurality of blood pathways on its surface, and a gas permeable membrane, or membranes positioned in the housing in substantial contact with the heat exchange body to cover or lie within a portion of each of the pathways. The membrane defines a gas pathway separate from the blood pathway through which a gas is directed. The blood is directed through the individual blood pathways. The **device** also includes various ports and passageways for delivering the blood to the individual channels, and for collecting and removing the blood from the **device**.



159) Family number: 30132453 (US2002090738A)

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Title: SYSTEM AND METHOD OF MICRODISPENSING AND ARRAYS OF BIOLAYERS PROVIDED BY SAME

Priority:

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JP19900500757 19891113	US19900567870 19900815	US19890432714 19891107
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Family:

Publication number	Publication date	Application number	Application date
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WO9005910 A3	20040422	WO1989US05227	19891113

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Agent(s): OSLER HOSKIN AND HARCOURT LLP; KATTEN MUCHIN ROSENMAN LLP

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

International class (IPC 8-9): B01D61/00 B01L3/00 B01L3/02 C07K17/02 C12M1/40 C12M3/00 C12N11/00 C12Q1/00 C12Q1/68 G01N1/28 G01N27/07 G01N27/26 G01N27/327 G01N27/333 G01N27/414 G01N27/416 G01N33/53 G01N33/543 G01N35/00 G01V9/00 G10K11/00 H04R1/02 H04R1/44 H04R15/00 (Advanced/Invention); G01N35/10 (Advanced/Non-invention); G01N27/26 G01N27/333 G01N27/403 G01N27/416 (Core/Invention); B01D B67D C12Q G01N H04R (Subclass/Invention)

International class (IPC 1-7): B01D B01D61/00 B01D63/00 B05C17/00 B67D B67D5/00 C07D471/04 C07K17/02 C12M1/00 C12M1/40 C12N11/00 C12Q C12Q1/00 C12Q1/68 G01N G01N1/28 G01N21/00 G01N21/01 G01N27/07 G01N27/26 G01N27/327 G01N27/333 G01N27/414 G01N27/416 G01N30/00 G01N33/50 G01N33/53 G01N33/543 G01N33/545 G01N33/68 G03C5/00 H01L21/00

CPC: Y10S435/817 Y10S436/806 Y10S435/81 Y10S436/809 B01L2300/0877 G01V9/00 G10K11/006 B01L3/5027 B01L3/0268 B01L3/502707 B01L3/5088 B01L2200/12 B01L2300/0636 B01L2300/0645 B01L2300/0819 B01L2300/089 C12Q1/001 G01N33/5438 G01N35/0099 G01N35/109 G01N2035/00059 G01N2035/00237 G01N2035/00455 G01N2035/00534 G01N2035/1034 G01N2035/1076

European class: B01L3/00C2S B01L3/02D10 B01L3/5027 B01L3/5027A B01L3/5088 C12Q1/00B G01N33/543K2B G01N35/00R G01V9/00 G10K11/00G2 L01L200/12 L01L3/02D10 L01L3/5088 L01L300/06B2 L01L300/06B4 L01L300/08B6 L01L300/08E10 L01L300/08G S01N35/00C1V S01N35/00D5 S01N35/00E5 S01N35/00F5 S01N35/00R S01N35/10F4 S01N35/10M7 S01N35/10T2

US class: 204/153.12 204/153.17 204/400 204/403 204/403.06 204/403.07 204/403.09 204/403.1 204/403.11 204/403.12 204/403.13 204/411 204/412 204/413 204/414 204/415 204/416 204/417 204/418 204/419 204/430 204/431 204/432 205/778 205/782.5 257/253 422/417 422/50 422/504 422/57 422/63 422/68.1 422/69 422/78 422/79 422/82.01 422/82.05 422/82.08 422/930 427/2 427/2.11 427/2.13 427/407.1 427/414 427/58 427/96 427/96.6 427/97.3 427/97.5 430/127 430/14 430/16 430/311 430/313 430/315 430/320 430/325 430/326 430/328 430/330 430/4 430/5 430/56 430/96 430/97 435/14 435/174 435/177 435/180 435/25 435/287.1 435/287.2 435/287.9 435/288 435/288.7 435/291 435/4 435/5 435/6 435/6.11 435/6.19 435/7.1 435/810 435/817 436/149 436/150 436/151 436/501 436/518 436/518P 436/524 436/525 436/527 436/528 436/531 436/532 436/806 436/809 438/1 438/107 438/110 438/49 438/67 600/345 935/88

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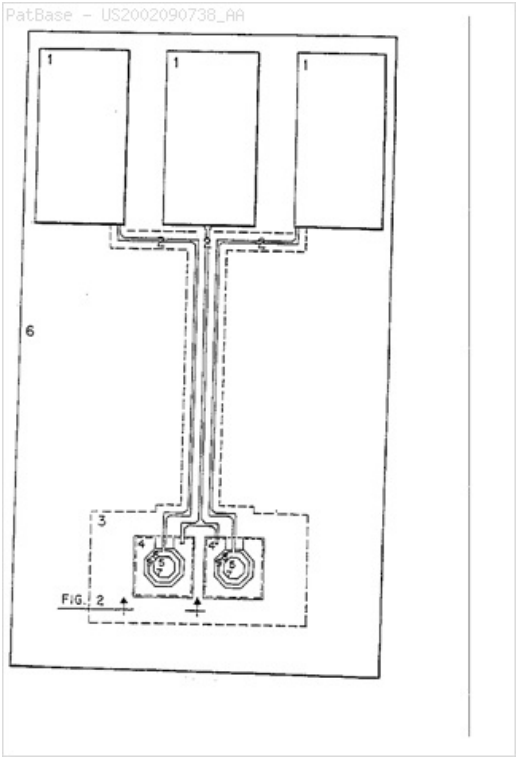
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Abstract:
Source: US2002090738A An efficient method for the microfabrication of electronic **devices** which have been adapted for the analyses of biologically significant analyte species is described. The techniques of the present invention allow for close control over the dimensional features of the various components and layers established on a suitable substrate. Such control extends to those parts of the **devices** which incorporate the biological components which enable these **devices** to function as biological sensors. The materials and methods disclosed herein thus provide an effective means for the mass production of uniform wholly microfabricated biosensors. Various embodiments of the **devices** themselves are described herein which are especially suited for real time analyses of biological samples in a clinical setting. In particular, the present invention describes assays which can be performed using certain ligand/ligand receptor-based biosensor embodiments. The present invention also discloses a novel method for the electrochemical detection of particular analyte species of biological and physiological significance using an substrate/label signal generating pair which produces a change in the concentration of electroactive species selected from the group consisting of dioxygen and hydrogen peroxide.



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Title: COLLAGEN-POLYMER CONJUGATES

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Publication number	Publication date	Application number	Application date
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Agent(s):	FB RICE; FB RICE PTY LTD; WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; BATTISON WILLIAMS DUPUIS; BERESKIN AND PARR; ADE AND CO; EITAN PEARL LATZER AND COHEN ZEDEK
Designated states:	AT AU BE CH DE DK ES FR GB GR IE IT JP LI LU MC NL PT SE
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Forward Citations:	WO9957301, WO9943271, WO9935978, WO9921588, WO9856290, WO9835653, WO9835631, WO9830141, WO9830141, WO9826789, WO9816255, WO9816255, WO9802189, WO9802189, WO9746267, WO9746226, WO9746226, WO9741842, WO9738729, WO9737002, WO9727183, WO9722372, WO9722371, WO9718829, WO9714376, WO9703106, WO9639125, WO9625961,

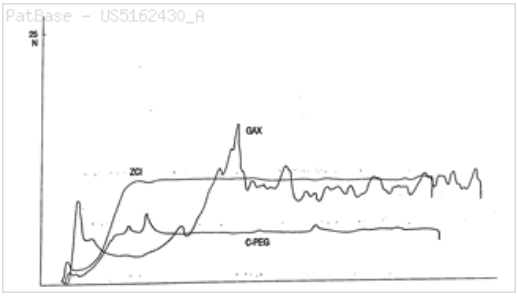
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Abstract:
Source: US5162430A Collagen, particularly atelopeptide collagen, exhibits improved handling characteristics when chemically conjugated and/or crosslinked with a synthetic hydrophilic polymer.



161) Family number: 30419999 (US5234004A)

Title: METHOD AND **APPARATUS** FOR THE SURGICAL TREATMENT OF TISSUES BY THERMAL EFFECT, AND IN PARTICULAR THE PROSTATE, USING A URETHRAL MICROWAVE-EMITTING PROBE MEANS

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Probable Assignee: AUSLO RESEARCH LLC

Assignee(s):(std)**:** CATHAUD MURIEL ; DEVONEC MARIAN ; HASCOET GERARD ; PERRIN PAUL ; TECHNOMED MEDICAL SYSTEMS ; TECHNOMED INT SA ; LACOSTE FRANCOIS ; TECHNOMED INTERNATIONAL ; TEKUNOMETSUDO INTERN SA ; TECHNOMED INT ; UROLOGIX INC

Assignee(s): TECHNOMED INTERNATIONAL S A ; AUSLO RESEARCH LLC ; TECHNOMED INT A FRENCH CORP ; TECHNOMED INTERNATIONAL S A PARIS FR ; PROJECT TROJAN INTELLECTUAL PROPERTY ACQUISITION LLC ; TECHNOMED INTERNATIONALFR ; TECHNOMED MEDICAL SYSTEMS BRON FR ; MEDTRONIC INC ; TECHNOMED MEDICAL SYSTEMS VAULX EN VELIN FR ; TEKUNOMETSUDO INTERNATL SA ; JACOMINO JEAN MARIE

Inventor(s):(std)**:** FURANSOWA RAKOSUTO ; HOORU PERAN ; JANNMARII JAKOMINO ; JEAN MARIE JACOMINO ; JERAARU ASUKO ; MARIAN DEUONETSUKU ; MYURIERU KATOO ; POORU PERAN ; PERRIN PAUL ; PAUL PERRIN ; MURIEL CATHAUD ; MIYURIERU KATOO ; MARIAN DEVONEC ; MARIAN DEBUONETSUKU ; LACOSTE FRANCOIS ; JIYANNMARII JIYAKOMINO ; JIERAARU ASUKO ; JACOMINO JEAN MARIE ; HASCOET GERARD ; GERARD HASCOET ; FURANSOWA RAKOSUTOU ; FRANCOIS LACOSTE ; DEVONEC MARIAN ; CATHAUD MURIEL

Inventor(s): PERRIN PAUL F 69007 LYON FR ; LACOSTE FRANCOIS F 69006 LYON FR ; JACOMINO JEAN MARIE F 69100 VILLERBANNE FR ; HASCOET GERARD F 75016 PARIS FR ; DEVONEC MARIAN F 01700 MIRIBEL FR ; CATHAUD MURIEL F 69780 VENISSIEUX FR

Agent(s): SIM AND MCBURNEY; HERMANN GERHARD ET AL

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

International class (IPC 8-9): A61B17/00 A61B17/22 A61B18/00 A61B18/18 A61B19/00 A61F7/12 A61N5/00 A61N5/01 A61N5/02 A61N5/04 A61N5/10 G01K13/00 H05B6/72 (Advanced/Invention);
A61B17/00 A61B17/22 A61B18/00 (Advanced/Non-invention);
A61B18/18 A61B19/00 A61N5/00 A61N5/01 A61N5/02 A61N5/10 G01K13/00 (Core/Invention);
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A61B (Subclass/Invention)

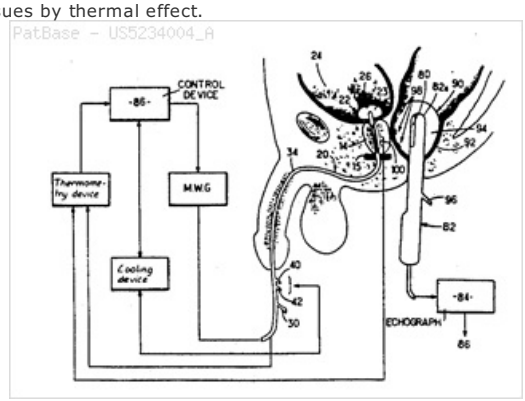
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AU2004206975, AU2004206975, AU2002326376,

Abstract:

Source: US5234004A An **apparatus** for the surgical treatment of tissues by thermal effect, in particular the prostate, is disclosed comprising a urethral emitting probe having a front end capable of being inserted in the urethra, provided with a microwave antenna located intermediate or in the vicinity of the front end, the microwave antenna being **connected** to an external microwave generating **device**, and working at a frequency and at a power effective to heat the tissues to a predetermined temperature for a period of time sufficient to treat the tissues by thermal effect.



162) Family number: 30860145 (US4933638A)

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Title: BOREHOLE MEASUREMENT OF NMR CHARACTERISTICS OF EARTH FORMATIONS, AND INTERPRETATIONS THEREOF

Priority: AU19900055111 19900516 EP19900401475 19900601 EP19940115560 19900601 US19890368916 19890619 US19860901084 19860827 US19890431368 19891205 US19890431256 19891205 US19890452903 19891219

Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: SCHLUMBERGER DOLL RESEARCH

Assignee(s):(std)**:** SCHLUMBER TECHNOLOGY CORP ; SCHLUMBERGER DOLL RESEARCH ; SCHLUMBERGER HOLDINGS ; D PROSPECTION ELECTR SCHLU SOC ; SCHLUMBERGER SERVICES PETROL ; SCHLUMBERGER TECHNOLOGY BV ; SCHLUMBERGER PROSPECTION ; SCHLUMBERGER LTD ; SCHLUMBERGER TECHNOLOGY CORP

Assignee(s): SCHLUMBERGER TECHNOLOGY A CORP OF TX CORP ; SCHLUMBERGER TECHNOLOGY DEN HAAG NL BV ; SCHLUMBERGER TECHNOLOGY DEN HAAG S GRAVENHAGE NL BV ; SERVICES PETROLIERS SCHLUMBERGER ; DE PROSPECTION ELECTRIQUE SCHLUMBERGER SOC ; SCHLUMBERGER HOLDINGS LTD

Inventor(s):(std)**:** WILLIAM E KENYON ; WENG C CHEW ; SEZGINER ABDURRANHMAN ; SEZGINER ABDURRAHMAN ; ROBERT L KLEINBERG ; PETER I DAY ; MAX LIPSICAS ; MASAFUMI FUKUHARA ; LIPSICAS MAX ; KLEINBERG ROBERT L ; KENYON WILLIAM E ; GRIFFIN DOUGLAS D ; FUKUHARA MASAFUMI ; DOUGLAS D GRIFFIN ; DAY PETER I ; CHEW WENG C ; ABDURRAHMAN SEZGINER

Inventor(s): SEZGINER ABDURRAHMAN BROOKFIELD CONNECTICUT 06804 ; SEZGINER ABDURRAHMAN BROOKFIELD CONNECTICUT ; LIPSICAS MAX REDDING CONNECTICUT 06896 US ; FUKUHARA MASAFUMI SAGAMIHARA CITY KANAGAWA KEN 229 ; FUKUHARA MASAFUMI SAGAMIHARA CITY KANAGAWA KEN ; FUKUHARA MASAFUMI SAGAMIHARA CITY KANAGAWA KEN 229 JP ; SEZGINER ABDURRAHMAN BROOKFIELD CONNECTICUT 06804 US

Agent(s): GRIFFITH HACK

Designated states: AT DE DK FR GB IT NL

International class (IPC 8-9): G01R33/34 G01R33/38 G01R33/44 G01V3/18 G01V3/32 (Advanced/Invention);
G01V3/18 (Advanced/Non-invention);
G01R33/34 G01R33/38 G01R33/44 G01V3/18 (Core/Invention)

International class (IPC 1-7): E21B49/00 G01N24/08 G01R33/20 G01R33/32 G01R33/50 G01R33/54 G01V3/14 G01V3/18 G01V3/32

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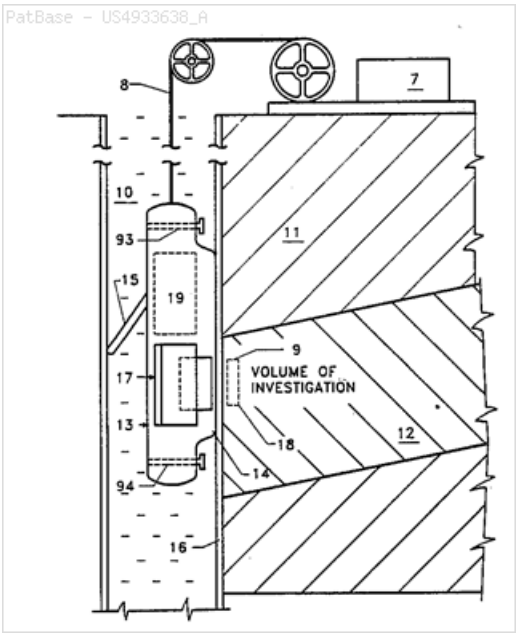
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Abstract:
Source: US4933638A Borehole NMR logging **apparatus** and methods, and methods for the interpretation thereof. A logging tool is provided which produces a strong, static and homogeneous magnetic field B0 in a Volume of an adjacent formation on one side of the tool to measure nuclear magnetic resonance characteristics thereof. In the preferred embodiment, the tool has an RF antenna mounted on the outside of the metal body of the tool, directing focussed oscillating magnetic fields B1 at said Volume to polarize or tip the magnetic moments of hydrogen nuclei of **fluids** within rock pores. The same antenna can be used to receive signals of proton precession in the Volume of interest immediately after transmission of the RF polarizing field B1. Extremely rapid damping of the antenna between the transmitting and receiving modes of operation is accomplished by a Q-switch disclosed herein. The invention provides for the direct measurement of NMR decay having transverse relaxation time T2 behavior, and further provides for the fast repetition of pulsed measurements from within a borehole. An additional magnet array may be mounted offset from the first magnet configuration to prepolarize a formation before it is measured in order to pre-align a larger number of protons than the single magnet configuration could do by itself. Additional features of the invention are disclosed which increase the Signal/Noise ratio of the measured data, and improve the quality and quantity of borehole NMR measurements, per unit of time spent. Disclosed interpretation methods determine **fluid** flow permeability and longitudinal relaxation time T1-type parameters by directly comparing the measured decay signals (such as T2 and T2ss type decay) to a representation which responds to both the decay time tdec and the imposed polarization period prior to such decay, tpol. The parameters of amplitude and T1 are determined and combined with certain preferred methods to generate robust values of formation characteristics such as **fluid** flow permeability. Other related methods are disclosed.



163) Family number: 15328994 (US5034229A)

Title: Dispenser for increasing feed conversion of hog

Priority:

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Publication number	Publication date	Application number	Application date
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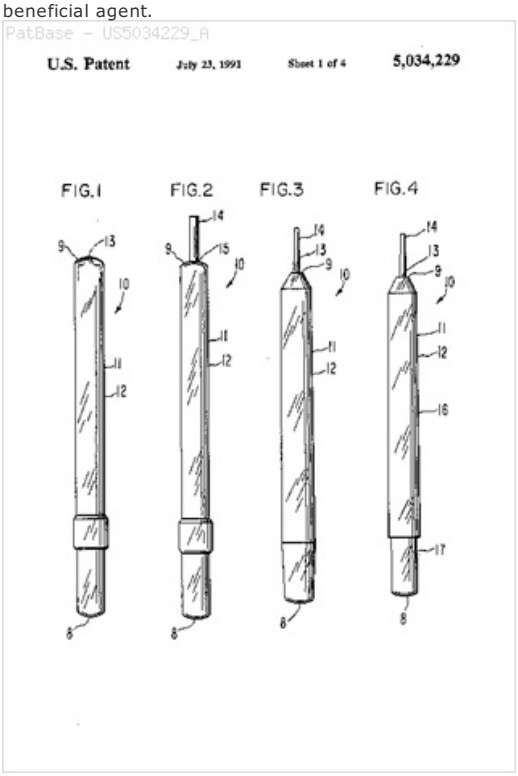
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Agent(s):	SHELSTON IP; SHELSTON IP PTY LTD; SMART AND BIGGAR; REINHOLD COHN AND PARTNERS; LUZZATTO AND LUZZATTO
Designated states:	AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IT JP KE KG KP KR KZ LI LK LR LT LU LV MC MD MG ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SI SK SN SZ TD TG TJ TT UA UG US UZ VN
International class (IPC 8-9):	A61D7/00 A61K9/00 A61K9/22 A61K9/52 A61M31/00 A61M37/00 (Advanced/Invention); A61D7/00 A61M31/00 (Advanced/Non-invention); A61M37/00 (Core/Invention)
International class (IPC 1-7):	A23K1/18 A61D7/00 A61F13/00 A61F2/00 A61J3/10 A61K37/26 A61K37/36 A61K47/00 A61K9/00 A61K9/14 A61K9/22 A61K9/52 A61M31/00 A61M37/00 A61M37/00 A61M7/00
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US class:	424/422 424/423 424/424 424/426 424/430 424/431 424/433 424/436 424/438 424/472 424/473 424/484 424/486 604/518 604/890.1 604/891.1 604/892.1
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Abstract:
Source: US5034229A A delivery system is disclosed for delivering a beneficial agent to an animal. The delivery system comprises a wall that surrounds a lumen, said wall comprising a composition that limits the passage of **fluid** into the system and a composition that permits the passage of **fluid** into the system. The lumen comprises a beneficial agent and an expandable member. The delivery system comprises an exit means for delivering the beneficial agent.



164) Family number: 20271849 (US5223426A)

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Title: MONOCLONAL ANTIBODIES REACTIVE WITH DEFINED REGIONS OF THE T-CELL ANTIGEN RECEPTOR

Priority:

AU19900048382 19891214	CA19892005121 19891211	IL19890092670 19891213
US19880284141 19881214	EP19900901370 19891214	EP19940908854 19930827
US19920938906 19920831	US19930083408 19930625	US19950450275 19950525
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Family:

Publication number	Publication date	Application number	Application date
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AU199048382 A1	19900710	AU19900048382	19891214
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US5223426 A	19930629	US19890449692	19891211
US5766947 A	19980616	US19920938906	19920831
US5976533 A	19991102	US19950449890	19950525
US5980892 A	19991109	US19950450425	19950525
US6048526 A	20000411	US19930083408	19930625
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WO9006758 A1	19900628	WO1989US05601	19891214
WO9405801 A1	19940317	WO1993GB01827	19930827

Probable Assignee: ASTRA AB

Assignee(s):(std)**:** T CELL SCIENCES INC ; MERCER CHRISTOPHER PAUL ; ASTRA AB ; ASTRA AB SOEDERTAELJE ; ASTRA SOEDERTAELJE AB

Assignee(s): ASTRA VASTRA MALAREHAMNEN AB ; ASTRA AKTIEBOLAG ; AKTIEBOLAGET ASTRA ; IP STEPHEN H ; KUNG PATRICK C ; SNIDER MARY ELLEN ; SKIBBENS ROBERT V ; HENRY LARRY D ; RITTERSHAUS CHARLES W ; TIAN WEI TAO ; KO JONE LONG ; KUNG PATRICK ; JONES NANCY ; WOOD NANCY L

Inventor(s):(std)**:** JONES NANCY ; KUNG PATRICK ; RITTERHAUS CHARLES W ; RITTERSHAUS CHARLES WILLIAM ; RITTERSHAUS WILLIAM ; SNIDER MARY E ; WOOD NANCY L ; WEI TAO TIAN ; TIAN WEI TAO ; STEPHEN H IP ; SNIDER MARY ELLEN ; SKIBBENS ROBERT V ; ROBERT V SKIBBENS ; PATRICK KUNG ; PATRICK C KUNG ; NANCY L WOOD ; NANCY JONES ; MARY ELLEN SNIDER ; LARRY D HENRY ; KO JONE LONG ; JONE LONG KO ; IP STEPHEN H ; HENRY LARRY D ; CHARLES WILLIAM RITTERSHAUS ; CHARLES W RITTERSHAUS ; RITTERSHAUS CHARLES W ; RITTERAHAUS CHARLES WILLIAM ; KUNG PATRICK C

Inventor(s): CHARLES WILLIAM RITTERAHAUS

Agent(s): PHILLIPS ORMONDE FITZPATRICK; FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD; OSLER HOSKIN AND HARCOURT LLP; KIRBY EADES GALE BAKER; DR SHLOMO COHEN AND CO

Designated states: AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CZ DE DK ES FI FR GA GB GN GR HU IE IT JP KP KR KZ LI LK LU MC MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SK SN TD TG UA VN

International class (IPC 8-9): A61K35/12 A61K35/18 A61K38/00 A61K39/395 A61K51/00 A61P29/00 A61P37/00 A61P37/02 A61P37/06 C07K14/705 C07K16/00 C07K16/28 C07K16/46 C12N15/02 C12N15/09 C12N5/00 C12N5/12 C12N5/18 C12N5/20 C12P21/08 C12Q1/68 G01N33/53 G01N33/563 G01N33/564 G01N33/566 G01N33/577 (Advanced/Invention);
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A61K39/395 C12N5/12 C12N5/18 C12Q1/68 (Core/Invention);
C12N (Subclass/Invention)

International class (IPC 1-7): A61K35/12 A61K35/14 A61K35/16 A61K35/18 A61K39/00 A61K39/395 A61K49/00 A61K51/00 C07K13/00 C07K15/00 C07K15/28 C07K16/28 C07K16/46 C07K3/00 C12N15/02 C12N15/06 C12N15/09 C12N5/00 C12N5/02 C12N5/08 C12N5/12 C12N5/16 C12N5/18 C12N5/20 C12P21/08 C12Q1/68 G01N33/53 G01N33/563 G01N33/564 G01N33/566 G01N33/574 G01N33/577

CPC: Y10S436/804 Y10S436/811 Y10S514/825 Y10S530/809 C07K2317/74 C07K16/2809 A61K38/00 A61K2039/505

European class: C07K16/28A12 K61K38/00 K61K39/505 M07K203/00 M07K205/00 M07K207/00 M07K209/00 M07K317/740

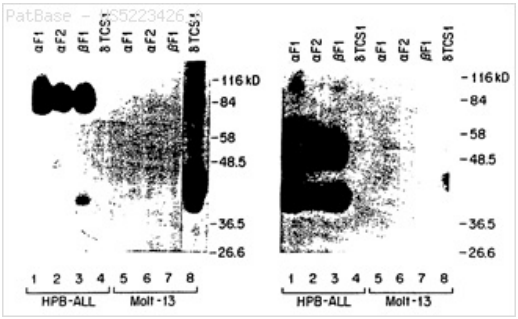
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Classification Explorer

Cited documents: WO9212996 A2, WO9202629 A1, WO8905309 A1, WO8902899 A1, WO8800209 A1, WO8402848 A1, US5223426 A, US5179018 A, US4923799 A, US4886743 A, US4845026 A, US4634586 A, US4550086 A, US4367221 A, JPS6330500, JPS61254529, JP63030500 A2, JP61254529 A2, GB2197323 A1, EP0340109 A2, EP0289252 A2, EP0200350 A2, EP0180878 A2, EP0180171 A2, DE2503331 A1, DE250333, DD250333 Z, DD250333 A1, AU643195 B2, AU615233 B2, AU4416189 A1,

Forward Citations: WO9516038, WO9516038, WO9213950, WO9213950, WO9213949, WO17048902, WO16193301, WO15119841, WO10107380, WO10027797, WO06065894, WO0056860, WO0056860, US9528088, US9205141, US9205139, US9125850, US8709426, US8647628, US8642726, US8642043, US8617884, US8609605, US8470768, US8357669, US8178098, US8053197, US7951374, US7829536, US7811570, US7731973, US7585953, US7579006, US7572631, US7541184, US7462486, US7371385, US7294712, US6764820, US6596536, US6589756, US6451571, US6392020, US6379909, US6252055, US6221352, US6197298, US6159470, US6146836, US6129916, US6117982, US6106835, US6090387, US6020170, US5985552, US5872222, US5861155, US5853721, US5830758, US5786159, US5776708, US5766947, US5766570, US5747036, US5643549, US5616472, US5612035, US5552300, US5445940, US2014234268, US2013071320, US2010272739, US2010215738, US2009297531, US2009191166, US2009148404, US2009010885, US2008248025, US2008227761, US2008207580, US2008069770, US2007141609, US2006147373, US2006127502, US2006121005, US2005169927, US2005084967, US2004241162, US2004175373, US2004151704, US2004063656, US2004001830, US2003190665, US2003176409, US2003068628, US2002143150, US2002098516, FR2675155, FR2672616, EP1393750, EP1286664, EP1124568, EP0556272, EP0516953, CN102439035, AU733165, AU660660, AU651931,

Abstract:
Source: US5223426A The present invention relates to monoclonal antibodies which recognize defined regions of the T-cell receptor (TCR). In a specific embodiment, the invention provides monoclonal antibodies which are reactive with a constant region of the alpha chain of the TCR. In particular embodiments, the invention relates to two monoclonal antibodies, termed alpha F1 and alpha F2, which react with two different epitopes on the framework region of the alpha monomer of the TCR molecule. In another specific embodiment, the invention is directed to monoclonal antibodies reactive with a variable region of the beta chain of the TCR. In particular, the invention provides two monoclonal antibodies, termed W112 and 2D1, which react with beta chain variable regions V beta 5.3 and V beta 8.1, respectively. In another specific embodiment, the invention is directed to monoclonal antibodies reactive with a variable region of the delta chain of the TCR. In particular, the invention provides monoclonal antibody delta TCS1, isotype IgG2a. The monoclonal antibodies of the invention have value in diagnosis and therapy and are useful tools for study of the immune system.



165) Family number: 28672409 (US5830670A)

© PatBase

Title: NEURAL THREAD PROTEIN GENE EXPRESSION AND DETECTION OF ALZHEIMER'S DISEASE

Priority:

AU19900048379 19891221	CA19892006332 19891221	EP19940915396 19940420
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Family:

Publication number	Publication date	Application number	Application date
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WO9615272 A1	19960523	WO1995US17111	19951114

Probable Assignee: GENERAL HOSPITAL CORP

Assignee(s):(std)**:** GEN HOSPITAL COPORATION ; GEN HOSPITAL CORP ; GENERAL HOSPITAL CORP

Assignee(s): GENERAL HOSPITAL CORP BOSTON MASS US ; OZTURK MEHMET ; WANDS JACK R ; GROSS JEROME ; GENERAL HOSPITAL THE CORP ; GENERAL HOSPITAL COPORATION ; DE LA MONTE SUZANNE ; DE LA MONTE SUZANNE M

Inventor(s):(std)**:** DE LA MONTE SUZANNE ; DE LA MONTE SUZANNE M ; GROSS JEROME ; JACK R WANDS ; JEROME GROSS ; MEHMET OZTURK ; MONTE SUZANNE DE LA ; MONTE SUZANNE M DE LA ; OZTURK MEHMET ; SUZANNE DE LA MONTE ; SUZANNE M DE LA MONTE ; WANDS JACK R

Inventor(s): OZTURK MEHMET BROOKLINE MA 02146 US ; GROSS JEROME WABAN MA 02168 US ; DE LA MONTE SUZANNE CAMBRIDGE MA 02140 US

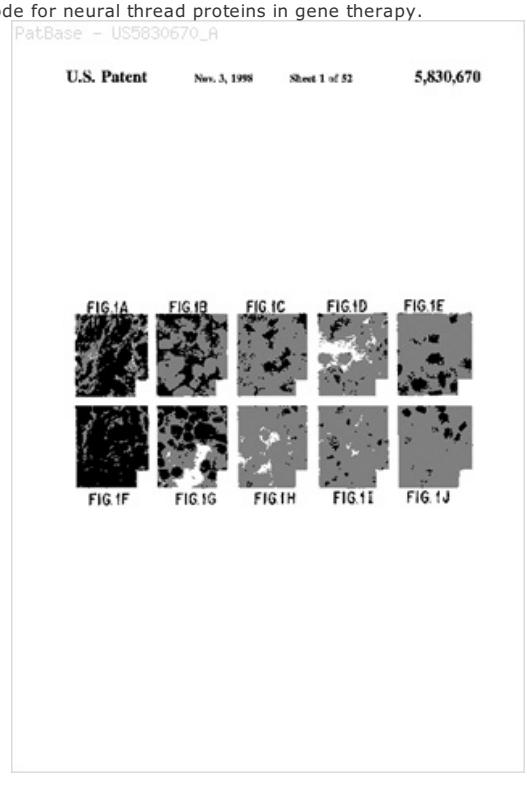
Agent(s): PETER MAXWELL AND ASSOCIATES; GOWLING LAFLEUR HENDERSON LLP; MBM INTELLECTUAL PROPERTY LAW LLP; CHAPMAN PAUL WILLIAM; SHIMIZU HATSUSHI

Designated states: AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK ES FI FR GA GB GE GN GR HU IE IT JP KG KP KR KZ LI LK LU LV MC MD MG ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SI SK SN TD TG TJ TT UA UZ VN

International class (IPC 8-9): A61K31/70 A61K35/74 A61K38/00 A61K39/395 A61K48/00 A61K49/00 A61K51/00 A61P25/28 C07H15/12 C07H21/00 C07H21/04 C07K1/22 C07K14/435 C07K14/47 C07K16/00 C07K16/18 C12N1/15 C12N1/19 C12N1/21 C12N15/00 C12N15/09 C12N15/12 C12N15/70 C12N5/00 C12N5/10 C12N7/00 C12P21/00 C12P21/02 C12Q1/00 C12Q1/68 G01N33/53 G01N33/566 G01N33/574 G01N33/577 G01N33/68 (Advanced/Invention);

	A61K31/70 A61K38/00 A61K39/395 A61K48/00 A61K51/00 C07K14/435 C07K16/00 C12N15/09 C12N5/10 C12P21/00 G01N33/53 G01N33/577 (Advanced/Non-invention); A61K31/70 A61K35/66 A61K48/00 A61K49/00 A61K51/00 A61P25/00 C07H15/00 C07H21/00 C07K14/435 C12N1/15 C12N1/19 C12N1/21 C12N15/00 C12N15/09 C12N15/12 C12N5/00 C12N5/10 C12N7/00 C12P21/02 C12Q1/00 C12Q1/68 G01N33/53 G01N33/577 G01N33/68 (Core/Invention)
International class (IPC 1-7):	A61K31/70 A61K35/74 A61K38/00 A61K38/17 A61K39/395 A61K48/00 A61K49/00 A61K49/02 A61K51/00 C07H15/12 C07H21/00 C07H21/02 C07H21/04 C07K1/00 C07K13/00 C07K14/00 C07K14/435 C07K14/47 C07K15/06 C07K3/00 C12N1/00 C12N1/15 C12N1/19 C12N1/20 C12N1/21 C12N1/22 C12N15/00 C12N15/09 C12N15/12 C12N15/63 C12N15/70 C12N5/00 C12N5/10 C12N5/18 C12N7/00 C12P21/00 C12P21/02 C12P21/06 C12P21/08 C12Q1/00 C12Q1/08 C12Q1/68 G01N33/48 G01N33/53 G01N33/543 G01N33/564 G01N33/566 G01N33/567 G01N33/574 G01N33/577 G01N33/68
CPC:	Y10S530/839 Y10S436/804 Y10S436/811 A61K38/00 A61K49/0008 C07K14/47 C07K16/18 G01N33/6878 C12Q2600/158 C12Q1/6883 C07K14/4711 C07K14/474 G01N33/6896 G01N2800/2821
European class:	A61K49/00H6 C07K14/47 C07K14/47A27 C07K14/47A3 C07K16/18 C12Q1/68M6 C12Q1/68M6+563/131+545/101 G01N33/68K G01N33/68V2 K61K38/00 M07K203/00 M07K205/00 M07K207/00 M07K209/00 M07K213/00 M07K213/04 M07K215/00 S01N800/28B1
US class:	435/252.3 435/252.33 435/252.8 435/320.1 435/40.52 435/69.1 435/7.1 435/7.2 435/7.21 435/7.92 435/7.93 435/7.94 435/7.95 435/71.2 436/503 436/544 436/545 436/548 436/63 436/804 436/811 530/350 530/839 536/23.1 536/23.5
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Cited documents:	WO9210590 A1, WO9207065 A1, WO9206693 A1, WO9106626 A2, WO9009180 A1, WO9006993 A1, WO8909835, WO8903849 A1, WO8810315, US5501979 A, US5436169 A, US5168053 A, US5082670, US4897355 A, US4866042 A, US4816388 A, US4735210 A, US4683202, US4683195, US4666829 A, US4624846 A, US4394448 A, US4376110, US4358535, US08050559, EP336731, EP320308, EP04076254, EP0263740 A1,
Forward Citations:	WO9838204, WO9721807, WO9423756, WO09030456, WO08014603, WO07098588, WO03044053, WO03044053, WO03008444, WO03008444, WO03008443, WO03008443, WO03006481, WO03006481, WO0234915, WO0234915, WO02099036, WO02097030, WO02097030, WO02092115, WO02092115, WO02089841, WO02089841, WO02074323, WO02074323, WO0046237, US9857381, US9758786, US9713646, US9675796, US9416361, US9365634, US9233245, US9221867, US9173891, US9161988, US8969310, US8958881, US8954149, US8921314, US8895722, US8853353, US8828949, US8828925, US8754191, US8716247, US8710013, US8569446, US8436163, US8435755, US8406869, US8293703, US8229571, US8067378, US8055347, US7943046, US7902156, US7860569, US7745572, US7684859, US7640062, US7636597, US7572450, US7563778, US7557182, US7544771, US7408021, US7319094, US7317077, US7309589, US7300927, US7291454, US7259232, US7241738, US7226730, US7192929, US7189822, US7189532, US7186801, US7138380, US7045616, US7025962, US6972171, US6924266, US6878515, US6781029, US6770797, US6607886, US6528297, US6515118, US6352723, US6342350, US6153171, US6111090, US6051684, US5948888, US5948634, US5936078, US5830670, US2012053228, US2011171128, US2011160623, US2011112036, US2010297120, US2010256055, US2010049230, US2009299418, US2009286742, US2009210026, US2009082277, US2009022743, US2009016959, US2008299039, US2008033509, US2007237780, US2006240633, US2006195169, US2006189515, US2006188935, US2006182684, US2006160186, US2006127401, US2005266099, US2005233351, US2005159790, US2005032704, US2003181684, US2003181656, US2003166569, US2003129626, US2003109437, US2003096756, US2003096350, US2003054990, US2003050262, US2003033621, US2003004107, US2003003445, US2002129391, US2002104108, KR101005130, KR100966232, KR100945383, KR100843792, JP5622885, JP4717349, JP2013215191, JP2011152133, JP2011135876, JP2005521383, JP2005507647, JP2005506061, JP2004534533, EP1857115, EP1847550, EP1714979, EP1702985, EP1564293, EP1541166, EP1541166, EP1417228, EP1390403, EP1387698, EP1368054, EP1346999, EP1006794, EP0903147, EP0903147, AU749348, AU674581, AU2008295046, AU2002342463, AU2002308327,

Abstract:
Source: US5830670A The present invention is directed to recombinant hosts expressing novel proteins associated with Alzheimer's Disease, neuroectodermal tumors, malignant astrocytomas, and glioblastomas. This invention is specifically directed to the recombinant hosts and vectors which contain the genes coding for the neuronal thread proteins. This invention is also directed to substantially pure neural thread protein, immunodiagnostic and molecular diagnostic methods to detect the presence of neural thread proteins, and the use of nucleic acid sequences which code for neural thread proteins in gene therapy.



166) Family number: 3043054 (US4969872A)

Title: Intravenous system for delivering a beneficial agent with delivery rate control via permeable surface area variance

Priority: CA19902011629 19900307 EP19900905134 19900308 WO1990US01297 19900308
US19890320732 19890308 EP19900905134 19900308 EP19900905134 19900308

Family:

Publication number	Publication date	Application number	Application date
AT88361 E	19930515	AT19900905134T	19900308
AU199053346 A1	19901009	AU19900053346	19900308
AU629926 B2	19921015	AU19900053346	19900308
CA2011629 AA	19900908	CA19902011629	19900307
DE69001432 D1	19930527	DE19906001432	19900308
DE69001432 T2	19930729	DE19906001432T	19900308
DK0462213 T3	19930517	DK19900905134T	19900308
EP0462213 A1	19911227	EP19900905134	19900308
EP0462213 B1	19930421	EP19900905134	19900308
ES2040117 T3	19931001	ES19900905134T	19900308
GR1000434 B	19920730	GR19900100162	19900308
GR900100162 A	19900731	GR19900100162	19900308
JP4504970 T2	19920903	JP19900505077T	19900308
PT93376 A	19901107	PT19900093376	19900308
US4969872 A	19901113	US19890320732	19890308
WO9010467 A1	19900920	WO1990US01297	19900308

Probable Assignee: ALZA CORP

Assignee(s):(std)**:** ALZA CORP

Assignee(s): ALZA CORP PALO ALTO CALIF US ; THEEUWES FELIX ; URQUHART JOHN

Inventor(s):(std)**:** THEEUWES FELIX ; URQUHART JOHN

Inventor(s): URQUHART JOHN PALO ALTO CA 94301 US ; THEEUWES FELIX LOS ALTOS CA 94022 US ; FELIX THEEUWES ; JOHN URQUHART

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; SMART AND BIGGAR

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

International class (IPC 8-9): A61M39/00 A61M5/14 A61M5/168 (Advanced/Invention);
A61M39/00 (Advanced/Non-invention);
A61M39/00 A61M5/14 (Core/Invention)

International class (IPC 1-7): A61M37/00 A61M39/00 A61M5/14 A61M5/168

CPC: A61M5/1409

European class: A61M5/14B2

US class: 604/251 604/85 604/892.1

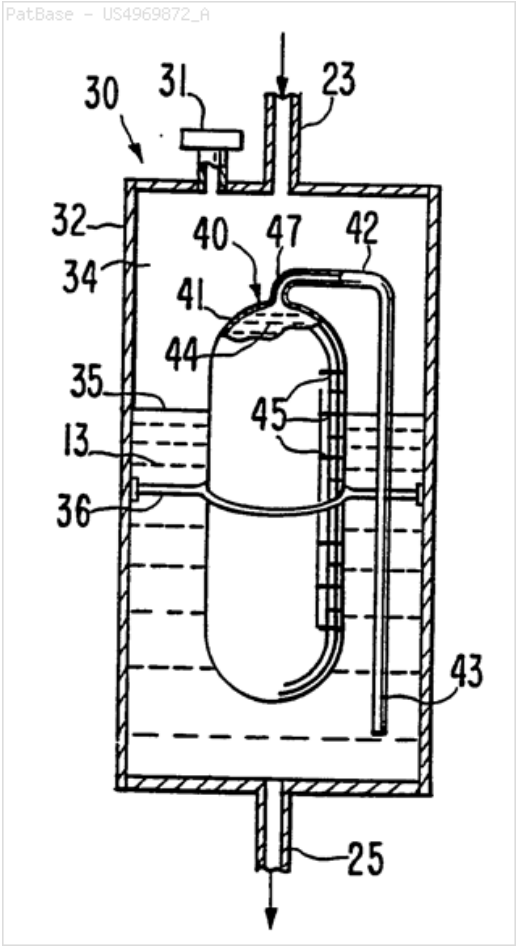
Classification Explorer

Cited documents: US4865845 A, US4740201 A, US4740200 A, US4740103 A, US4715850 A, US4596555 A, US4552555 A, US4539004 A, US4511353 A, US4505703 A, US4478818 A, US4474575 A, US4432964 A, US4424056 A, US4317473 A, US4304765 A, US4303637 A, US4281654 A, US4246397 A, US4190642 A, US4136692 A, US4111202 A, US4093708 A, US4070347 A, US4066747 A, US3995631 A, US3987790 A, US3921636 A, US3845770 A, US3760984 A,

Forward Citations: WO14160319, US9597449, US8672876, US8231566, US8226597, US6641556, US6436069, US5845633, EP0783896,

Abstract:
Source: US4969872A A drug formulation chamber for an intravenous administration set is provided. The intravenous administration set includes a container of an IV **fluid**, a drip chamber, a drug formulation chamber, and an adapter-needle assembly. The drug formulation chamber houses a diffusional or an osmotically driven drug delivery **device**. The osmotically driven delivery **device** has a semipermeable, microporous or diffusional wall which surrounds a compartment containing the drug. Drug is delivered through an orifice in the semipermeable/microporous wall or through the diffusional wall itself, into the IV **fluid**. The **device** delivers drug into the IV **fluid** at a rate that is independent of the flow rate of IV **fluid** through the formulation chamber. The rate of drug delivery is controlled by variably adjusting the surface area of the semipermeable/microporous/diffusional wall that is exposed to the IV **fluid** flowing through the drug formulation chamber.

PatBase - US4969872_A



167) Family number: 29239899 (US5116615A)

Title: METHOD FOR TREATING BENIGN PROSTATIC HYPERTROPHY

Priority: US19890303809 19890127 US19890429966 19891031 US19910707628 19910530
WO1990US00423 19900119 US19930154158 19931117 US19910707662 19910530

Family:

Publication number	Publication date	Application number	Application date
AT121946 E	19950515	AT19900902952T	19900119
AU199050456 A1	19900824	AU19900050456	19900119
DE69019141 D1	19950608	DE19906019141	19900119
DE69019141 T2	19960118	DE19906019141T	19900119
DK0456724 T3	19951002	DK19900902952T	19900119
EP0456724 A1	19911121	EP19900902952	19900119
EP0456724 B1	19950503	EP19900902952	19900119
ES2072424 T3	19950716	ES19900902952T	19900119
HK1003981 A1	19981113	HK19980103224	19980417
JP3054190 B2	20000619	JP19900503414T	19900119
JP4503071 T2	19920604	JP19900503414T	19900119
US5116615 A	19920526	US19910707628	19910530
US6296847 BA	20011002	US19930154158	19931117
WO9008555 A1	19900809	WO1990US00423	19900119

Probable Assignee: IMMUNOLYTICS INC

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

Assignee(s): IMMUNOLYTICS INC MINNEAPOLIS MINN US

Inventor(s):(std)**:** GUY TERRY ; GUY TERRY J ; MUHARREM GOKCEN ; TERRY J GUY ; GOKCEN MUHARREM

Inventor(s): GOKCEN MUHARREM MINNEAPOLIS MN 55427 US

Designated states: AT AU BE BG BR CA CH DE DK ES FR GB IT JP LI LU NL RO SE SU

International class (IPC 8-9): A61K31/165 A61K31/415 A61K31/43 A61K31/47 A61K31/505 A61K31/545 A61K31/635 A61K31/65 A61K31/70 A61K31/765 A61K38/46 A61K38/47 A61K38/48 A61K38/54 A61K39/395 A61K47/14 A61K47/34 A61K9/107 A61P13/02 A61P13/08 A61P15/00 (Advanced/Invention);
A61K31/165 A61K31/415 A61K31/47 A61K31/505 A61K31/545 A61K31/65 A61K31/70 A61K39/395 A61K47/14 A61K47/34 A61K9/107 A61P15/00 (Advanced/Non-invention);
A61K38/43 (Core/Invention)

International class (IPC 1-7): A61K31/165 A61K31/415 A61K31/43 A61K31/47 A61K31/505 A61K31/545 A61K31/635 A61K31/65 A61K31/70 A61K31/71 A61K31/765 A61K37/54 A61K37/547 A61K37/62 A61K38/46 A61K38/48 A61K38/54 A61K39/395 A61K47/14 A61K47/34 A61K9/107 A61P13/08

CPC: A61K38/4886 Y10S514/968 Y10S514/975 C12Y302/01035 A61K31/43 A61K45/06 A61K38/47

European class: A61K38/46 A61K38/47 A61K38/48 A61K38/54

US class: 424/94.2 424/94.21 424/94.6 424/94.61 424/94.62 424/94.63 424/94.64 424/94.65 424/94.67 514/968 514/975

Classification Explorer

Cited documents: US5116615 A, US4678668 A, US4659695 A, US4645668 A, US4568543 A, US4524065 A, US4485095 A, US4446129 A, US4440749 A, US4338300 A, US4329430 A, US4317818 A, US4317817 A, US4310523 A, US4276284 A, US4276281 A, US4224313 A, US4224179 A, US4174389 A, US4005194 A, US3977408 A, US3792161 A, US3691090 A, US3678158 A,

Forward Citations: WO9705901, WO9703693, WO9600283, WO9508949, WO9419005, WO9320803, WO13072902, WO09070818, WO08140500, WO08083407, WO08016897, WO08016897, WO07140963, WO06036804, WO04026335, WO04014398, WO03066088, WO03066088, WO02074329, WO0134176, USRE38490, USRE38392, US9616204, US9566369, US9566317, US9511126, US9510853, US9381157, US9364250, US9333244, US9284543, US9241980, US9237902, US9232960, US9232959, US9086580, US8936027, US8927249, US8877228, US8841110, US8814921, US8697066, US8679521, US8568716, US8562983, US8562793, US8475831, US8449512, US8388952, US8383103, US8298187, US8268133, US8231870, US8226702, US8167866, US8133491, US7927465, US7883699, US7882841, US7863040, US7807618, US7704976, US7666412, US7632494, US7572613, US7462491, US7437194, US7361335, US7345030, US7307166, US7153505, US7063838, US7037495, US7029859, US7018365, US7015253, US6997926, US6992073, US6913744, US6815170, US6730691, US6726712, US6719706, US6678391, US6545139, US6464661, US6428785, US6384017, US6379669, US6296847, US6280726, US6277391, US6252058, US6211153, US6206847, US6180609, US6177404, US6153586, US6130204, US6060459, US6054441, US6037144, US6022334, US5997863, US5989888, US5952215, US5936256, US5895370, US5879711, US5874079, US5860950, US5858399, US5858017, US5846532, US5843902, US5843472, US5830741, US5820583, US5804188, US5800385, US5783182, US5782848, US5780435, US5776452, US5753485, US5720719, US5720718, US5672153, US5670358, US5630794, US5612057, US5607389, US5605796, US5599686, US5599295, US5599294, US5556377, US5554110, US5542915, US5514669, US5514131, US5470309, US5470308, US5456662, US5435805, US5424208, US5422261, US5421819, US5409453, US5385544, US5370675, US5366490, US2012109044, US2010249746, US2010159564, US2010143457, US2010111780, US2010096295, US2010092350, US2010075918, US2010036471, US2010025304, US2009248034, US2009246866, US2009232786, US2009228092, US2009227998, US2009203792, US2009060897, US2009060893, US2009045056, US2009018533, US2008317736, US2008275080, US2008199453, US2008199452, US2008027554, US2008021107, US2007207198, US2007122529, US2007122450, US2007102279, US2007060652, US2007014782, US2007014781, US2006247311, US2006228347, US2006188575, US2006142243, US2006122281, US2006104968, US2006094785, US2006093639, US2006084700, US2005287134, US2005239890, US2005228049, US2005202407, US2005119224, US2005096709, US2005079562, US2005054725, US2005036986, US2004265294, US2004247619, US2004198822, US2004142034, US2004138174, US2004018173, US2003224464, US2003215432, US2003149442, US2003130649, US2003097039, US2003092689, US2003050686, US2001012890, RU2485971, JP2017141228, JP2014520881, JP2014510045, JP2011505385, JP2003523319, GB2352173, ES2385239, EP2810613, EP2559439, EP2363142, EP2332568, EP1923068, EP1242110, EP1220830, AU684822,

Abstract:
Source: US5116615A The invention provides a composition and method for treating benign prostatic hypertropy in mammals so as to cause the dissolution and regression of hypertrophied prostatic tissue and thereby provide relief from the obstructive symptoms associated with the disease. The present composition preferably comprises a sterile pyrogen-free solution of the hydrolytic enzymes collagenase and hyaluronidase, a nonionic surfactant, and an antibiotic; all provided, in a pharmaceutically acceptable, buffered, isotonic, aqueous carrier. The present method preferably comprises the direct intraprostatic **injection** of a safe and therapeutically effective dose of the composition via the transurethral route of administration.

168) Family number: 2992514 (US4969871A)

Title: Intravenous system for delivering a beneficial agent

Priority:
CA19902009984 19900214 EP19900903659 19900214 US19890311906 19890215
US19900568457 19900815 EP19900903659 19900214 EP19900903659 19900214
WO1990US00880 19900214 US19910741413 19910812

Family:

Publication number	Publication date	Application number	Application date
AT90000 E	19930615	AT19900903659T	19900214
AU199051517 A1	19900905	AU19900051517	19900214
AU623983 B2	19920528	AU19900051517	19900214
CA2009984 AA	19900815	CA19902009984	19900214
DE69001812 D1	19930708	DE19906001812	19900214
DE69001812 T2	19930923	DE19906001812T	19900214
DK0458879 T3	19930823	DK19900903659T	19900214
EP0458879 A1	19911204	EP19900903659	19900214
EP0458879 B1	19930602	EP19900903659	19900214
ES2041174 T3	19931101	ES19900903659T	19900214
GR1000496 B	19920730	GR19900100104	19900214
GR900100104 A	19910628	GR19900100104	19900214
JP4503466 T2	19920625	JP19900503793T	19900214
MX9203738 A1	19920901	MX19920003738	19920629
NZ232524 A	19950328	NZ19900232524	19900214
PT93152 A	19900831	PT19900093152	19900214
US4969871 A	19901113	US19890311906	19890215
US5045059 A	19910903	US19900568457	19900815
US5160320 A	19921103	US19910741413	19910812
WO9009201 A1	19900823	WO1990US00880	19900214

Probable Assignee: ALZA CORP

Assignee(s):(std)**:** ALZA CORP

Assignee(s): ALZA CORP PALO ALTO CALIF US ; THEEUWES FELIX ; YUM SU IL

Inventor(s):(std)**:** YUM SU ; YUM SU I ; YUM SU IL ; SU IL YUM ; THEEUWES FELIX

Inventor(s): THEEUWES FELIX LOS ALTOS CA 94022 US ; FELIX THEEUWES ; YUM SU IL LOS ALTOS CA 94021 US

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; SMART AND BIGGAR

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

International class (IPC 8-9): A61M5/14 (Advanced/Invention);
A61M5/14 (Core/Invention)

International class (IPC 1-7): A61J1/05 A61M37/00 A61M5/00 A61M5/14

CPC: A61M5/1407

European class: A61M5/14B

US class: 604/80 604/82 604/83 604/85 604/890.1 604/892.1

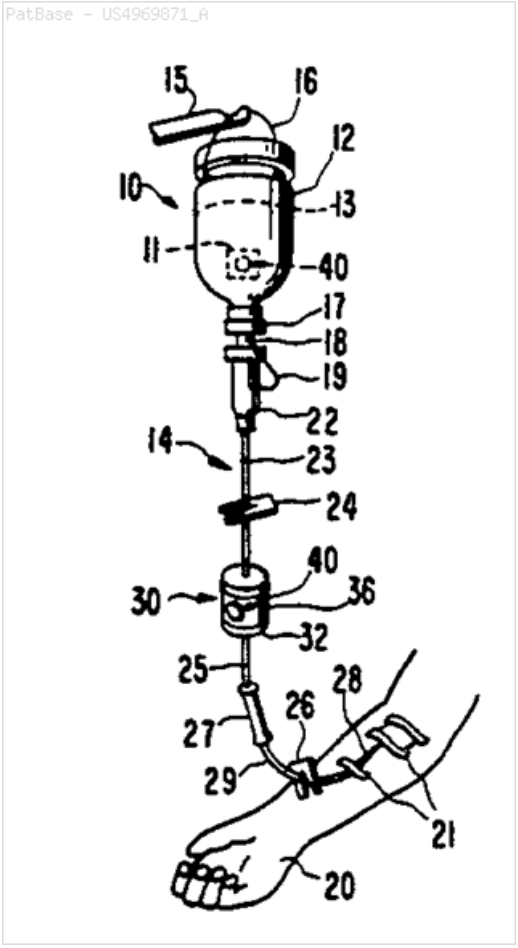
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Cited documents: WO8905167 A1, WO8404036 A1, US4969871 A, US4871352 A, US4857052 A, US4741734 A, US4740201 A, US4740200 A, US4740197 A, US4740103 A, US4552555 A, US4534757 A, US4533348 A, US4511353 A, US4439183 A, US4144317 A, US4060084 A, US4031894 A, US3996934 A, US3964482 A, US3797494 A, US3787571 A, US3742951 A, US3734097 A, US3731683 A, US3699963 A, US3598123 A, US3598122 A, US3536809 A, EP0249343 A1, EP0100296 A1,

Forward Citations: WO9426348, WO9310851, WO0185233, US9514518, US9029144, US8888738, US8775196, US8696632, US8672876, US8567235, US8496613, US8382447, US8234128, US8231566, US8226627, US8226597, US8172385, US8137083, US8105269, US8048419, US8022375, US7641851, US7608060, US7425209, US7358505, US7074216, US7018361, US6997905, US6890328, US6875203, US6852103, US6723076, US6659982, US6641556, US6629949, US6610040, US6582415, US6539248, US6349232, US6332467, US6159192, US6113583, US6090092, US6090091, US6071270, US6063068, US6022339, US6019750, US5989237, US5841638, US5836935, US5575779, US5492533, US5411480, US5360415, US5334170, US5250028, US5160320, US5104390, US2010103232, US2009234214, US2007225639, US2005277887, US2002090388, US2002065479, EP0671959,

Abstract:
Source: US4969871A A drug formulation chamber for an intravenous administration set is provided. The intravenous administration set includes a container of an IV **fluid**, a drip chamber, a drug formulation chamber, and an adapter-needle assembly. The drug formulation chamber has a **fluid** inlet and a **fluid** outlet for maintaining a flow of IV **fluid** through the chamber. A portion of the chamber wall is comprised of a window material which allows the drug to diffuse therethrough but which prevents convective loss of the IV **fluid**. A flow distributor is provided within the chamber for distributing the flow of IV **fluid** along the interior surface of the window. A transdermal-type drug delivery **device** is adhered to the exterior surface of the window. Drug is delivered by the delivery **device** through the window and into the flowing IV **fluid**. The **device** delivers drug into the IV **fluid** at a rate that is independent of the flow rate of IV **fluid** through the formulation chamber. The rate of drug delivery from the **device** into the IV **fluid** is controlled by either the window itself or by a membrane layer in the drug delivery **device**. A plurality of drug delivery **devices** may be adhered to the window to deliver a plurality of drugs or to deliver a single drug at a higher dosage rate. A similar window may be placed in an IV bag to deliver a drug into the IV **fluid** therein.

PatBase - US4969871_A



169) Family number: 31159585 (US4985016A)

Title: Intravenous system for delivering a beneficial agent

Priority: CA19902009930 19900214 US19890311905 19890215 US19910741477 19910809 WO1990US00871 19900214

Family:

Publication number	Publication date	Application number	Application date
AU199051691 A1	19900905	AU19900051691	19900214
AU635005 B2	19930311	AU19900051691	19900214
CA2009930 AA	19900815	CA19902009930	19900214
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GR900100103 A	19910628	GR19900100103	19900214
JP4504369 T2	19920806	JP19900504053T	19900214
MX9203555 A1	19920701	MX19920003555	19920626
NZ232523 A	19950224	NZ19900232523	19900214
PT93151 A	19900831	PT19900093151	19900214
US4985016 A	19910115	US19890311905	19890215
US5250028 A	19931005	US19910741477	19910809
WO9009200 A1	19900823	WO1990US00871	19900214

Probable Assignee: ALZA CORP

Assignee(s):(std)**:** ALZA CORP

Assignee(s): THEEUWES FELIX ; YUM SU I

Inventor(s):(std)**:** YUM SU IL ; THEEUWES FELIX ; SU IL YUM ; FELIX THEEUWES ; YUM SU I

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; SMART AND BIGGAR

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

International class (IPC 8-9): A61M39/00 A61M5/14 B65D25/08 (Advanced/Invention);
A61M39/00 (Advanced/Non-invention);
A61M39/00 A61M5/14 (Core/Invention)

International class (IPC 1-7): A61M37/00 A61M39/00 A61M5/00 A61M5/14 B65D25/08

CPC: A61M5/1407

European class: A61M5/14B

US class: 604/519 604/56 604/82 604/85 604/892.1

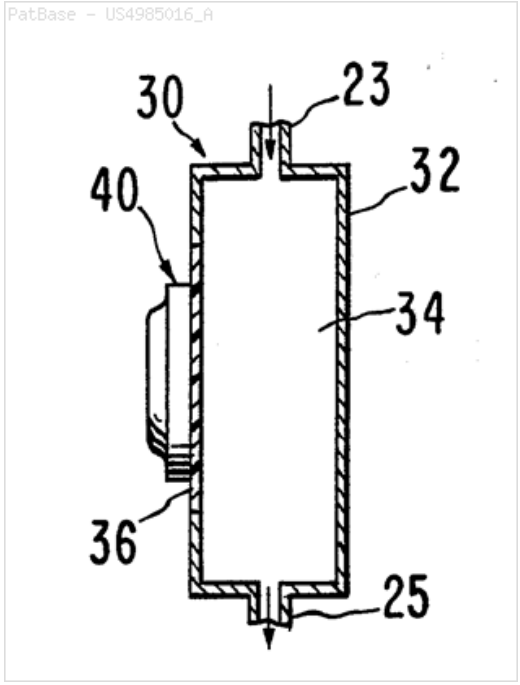
Classification Explorer

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Forward Citations: WO9961086, WO9813082, WO9114466, WO9114466, WO05094260, WO03030934, US8672876, US8231566, US8226627, US8226597, US8022375, US7641851, US7425209, US7358505, US7074216, US6890328, US6875203, US6852103, US6685692, US6641556, US6610040, US6582415, US6159192, US6158458, US6113583, US6090092, US6090091, US6071270, US6063068, US6022339, US6019750, US5989237, US5965276, US5954313, US5858793, US5833213, US5788215, US5679399, US5610070, US5549924, US5385546, US5385545, US2010140515, US2008300570, US2008243058, US2008243057, US2005137566, US2005135965, US2005133729, US2004241041, US2004199139, US2004081785, US2002123736, EP0878539, EP0878539,

Abstract:
Source: US4985016A A drug formulation chamber for an intravenous administration set is provided. The intravenous administration set includes a container of an IV **fluid**, a drip chamber, a drug formulation chamber, and an adapter-needle assembly. The drug formulation chamber has a **fluid** inlet and a **fluid** outlet for maintaining a flow of IV **fluid** through the chamber. A portion of the chamber wall is comprised of a material which is permeable to the drug but which prevents convective loss of the IV **fluid**. A transdermal-type drug delivery **device** is adhered to the semipermeable/microporous wall portion. Drug is delivered by the delivery **device** through the wall portion and into the flowing IV **fluid**. The **device** delivers drug into the IV **fluid** at a rate that is independent of the flow rate of IV **fluid** through the formulation chamber. The rate of drug delivery from the **device** into the IV **fluid** is controlled by either the wall portion or a membrane layer in the drug delivery **device**. A plurality of drug delivery **devices** may be adhered to the wall portion to deliver a plurality of drugs or to deliver a single drug at a higher dosage rate.

PatBase - US4985016_A



170) Family number: 30236971 (US2002146761A)

© PatBase

Title: RECOMBINANT ENDOTOXIN-NEUTRALIZING PROTEINS

Priority:

CA19902048619 19900214	CA19902323630 19900214	EP19970118279 19900214
EP19900904068 19900214	KR19900017022U 19901012	EP19910918397 19910813
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Family:

Publication number	Publication date	Application number	Application date
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AT246933 E	20030815	AT19900118279T	19900214
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WO9634873 A1	19961107	WO1996US06134	19960501

Probable Assignee: INCYTE PHARMACEUTICALS INC

Assignee(s):(std)**:** INVITRON CORP ; SCOTT RANDAL W ; MARRA MARIAN N ; INCYTE PHARAMACEUTICALS INC ; INCYTE PHARMA INC ; INCYTE PHARMACEUTICALS ; INCYTE PHARMACEUTICALS INC

Assignee(s): INCYTE PHARMACEUTICALS INC A DE CORP ; INSAITO PHARM INC ; INVITRON A OF DE CORP ; INCYTE PHARMACEUTICALS INC PALO ALTO CALIF US ; SNABLE JAMES L ; WILDE CRAIG G

Inventor(s):(std)**:** MARIAN N MARRA ; MARRA MARIAN ; MARRA MARIAN N ; MARRA MARIANN ; MARRA N ; RANDAL W SCOTT ; RANDALL W SCOTT ; SCOTT RANDAL ; SCOTT RANDAL W ; SCOTT RANDALL W ; SCOTT RANDALW ; SCOTT W ; SNABLE JAMES L ; CRAIG G WILDE ; JAMES L SNABLE ; WILDE CRAIG G ; WILDE G

Inventor(s): MARA MARIAN ENU ; SUKOTSUTO RANDARU DABURYU

Agent(s): PHILLIPS ORMONDE FITZPATRICK; DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; GOWLING LAFLEUR HENDERSON LLP; SMART AND BIGGAR; LUZZATTO AND LUZZATTO

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

International class (IPC 8-9): A61K31/00 A61K31/715 A61K35/14 A61K35/16 A61K38/00 A61K38/10 A61K38/17 A61K47/24 A61K47/26 A61K51/08 A61K9/08 A61K9/127 A61L27/00 A61L27/34 A61L29/00 A61L29/08 A61L31/00 A61L31/10 A61M1/36 A61M31/00 A61P29/00 A61P31/00 A61P31/04 A61P37/08 A61P39/02 A61P7/00 A61P7/06 A61P9/00 B01D15/08 C07K14/435 C07K14/47 C07K14/52 C07K14/76 C07K16/00 C12N1/19 C12N15/00 C12N15/09 C12N15/12 C12N15/62 C12P21/02 C12P21/04 C12Q1/02 F02B75/02 G01N33/53 G01N33/532 G01N33/566 G01N33/569 G01N33/68 G01N33/92 (Advanced/Invention);
A61K31/00 A61K31/715 A61K35/14 A61K35/16 A61K38/00 A61K9/08 A61K9/127 A61L27/00 A61L29/00 A61L31/00 A61P29/00 A61P31/00 A61P7/00 A61P9/00 C07K16/00 C12N1/19 C12N15/00 C12N15/09 C12P21/02 C12P21/04 C12P21/06 C12Q1/02 C12R1/84 C12R1/91 F02B75/02 G01N33/53 G01N33/532 G01N33/569 (Advanced/Non-invention);
A61K38/10 A61K38/17 C07K14/435 C12N1/19 G01N33/68 (Core/Invention);
A61K38/00 F02B75/02 (Core/Non-invention)

International class (IPC 1-7): A61K31/00 A61K31/14 A61K31/335 A61K35/14 A61K35/16 A61K37/00 A61K37/02 A61K37/20 A61K38/00 A61K38/03 A61K38/10 A61K38/17 A61K39/00 A61K47/24 A61K47/26 A61K51/00 A61K9/08 A61K9/127 A61L27/00 A61L29/00 A61L31/00 A61M1/36 A61M31/00 A61P31/04 B01D15/08 C07H15/12 C07H21/04 C07K1/00 C07K13/00 C07K14/00 C07K14/435 C07K14/47 C07K15/06 C07K3/00 C12N1/19 C12N1/21 C12N15/00 C12N15/09 C12N15/12 C12N15/62 C12N15/74 C12N15/85 C12N5/10 C12N5/16 C12N9/24 C12P21/02 C12P21/04 C12P21/06 C12Q1/02 G01N33/53 G01N33/532 G01N33/554 G01N33/566 G01N33/569 G01N33/68 G01N33/92

CPC: A61K9/127 A61K47/24 A61K47/26 A61L27/34 A61L29/085 A61L31/10 C07K14/47 C07K2319/33 C07K2319/55 A61K51/08 A61K2123/00 C07K2319/00 Y10S530/829 Y10S514/921 G01N33/68 G01N33/92 B82Y5/00 A61K38/00 C07K14/4742 C07K14/52 F02B2075/027

European class: A61K47/24 A61K47/26 A61K51/08 A61K9/127 A61L27/34 A61L29/08B A61L31/10 B82Y5/00 C07K14/47 C07K14/47A29 C07K14/52 G01N33/68 G01N33/92 K61K123/00 K61K38/00 M07K203/00 M07K207/00 M07K319/00 M07K319/33 M07K319/55 R02B75/02S4

US class: 424/1.11 424/1.57 424/111 424/157 424/164.1 424/450 424/534 424/88 424/92 435/200 435/200S 435/252.3 435/252.300S 435/320.1 435/320.100S 435/69.1 435/69.100P 435/69.3 435/691 435/693 435/7.1 435/7.32 435/7.320S 435/71 514/1.4 514/12 514/15.4 514/15.6 514/2 514/2.1 514/2.2 514/2.4 514/2.8 514/20.4 514/21 514/21.2 514/21.92 514/8 514/8.8 514/921 530/350 530/829 536/23.1 536/23.2 536/23.200S 536/231

Classification Explorer

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Forward Citations: WO9902178, WO9742967, WO9742966, WO9634873, WO9630037, WO9528949, WO9519784, WO9519180, WO9519179, WO9510297, WO9502414, WO9501428, WO9500641, WO9420129, WO9420128, WO9418323, WO9417819, WO9323540, WO9323540, WO9323434, WO9323434, WO9306228, WO9305797, WO9220715, WO17204918, WO16179560, WO09026155, WO04110143, WO04110143, WO02071061, WO02071061, WO0136478, WO0136478, WO0042994, WO0042994, WO0023101, USRE43309, USRE43279, USRE43140, US9540426, US8921063, US8703134, US8680059, US8394379, US8349570, US8288341, US8216998, US8003334, US7846678, US7820617, US7795226, US7786084, US7696211, US7662776, US7566447, US7560433, US7547766, US7490603, US7339023, US7081334, US7056514, US7033780, US7030087, US7021309, US6949512, US6828418, US6767893, US6764677, US6759203, US6730659, US6686332, US6676936, US6670327, US6653442, US6652862, US6647987, US6620785, US6599881, US6599880, US6596691, US6586400, US6583116, US6486125, US6482796, US6440936, US6433140, US6431167, US6431166, US6427681, US6408854, US6384200, US6384188, US6376462, US6344197, US6306824, US6287811, US6274348, US6274328, US6271203, US6268345, US6265187, US6255284, US6250298, US6242418, US6222021, US6214789, US6191112, US6171807, US6162788, US6159936, US6140306, US6132775, US6131567, US6107460, US6107280, US6098615, US6093801, US6093573, US6087126, US6085753, US6071879, US6066620, US6057293, US6054431, US6051553, US6025326, US6024090, US6017881, US6013631, US6013629, US6011066, US5994306, US5990086, US5990082, US5980897, US5970973, US5955427, US5952302, US5948408, US5945399, US5939390, US5935930, US5932544, US5916872, US5915378, US5891618, US5888977, US5888973, US5888477, US5877151, US5873358, US5858974, US5856438, US5856302, US5854214, US5837678, US5830860, US5827816, US5821064, US5807818, US5804558, US5804367, US5786324, US5783561, US5780429, US5770694, US5770561, US5766897, US5763567, US5756464, US5753620, US5750500, US5747455, US5741779, US5731415, US5696090, US5674834, US5660826, US5652332, US5646114, US5643875, US5641874, US5639727, US5627266, US5627262, US5627153, US5624904, US5614369, US5610075, US5607916, US5594113, US5578572, US5578568, US5576292, US5532216, US5523288, US5494896, US5489676, US5488034, US5458874, US5420019, US5348942, US5334584, US5234912, US2011105415, US2011020854, US2011009344, US2010183611, US2010041061, US2009291901, US2009281033, US2009227505, US2009048160, US2008318871, US2008274095, US2008269122, US2008267943, US2008267936, US2008261880, US2008242837, US2008217002, US2008194489, US2008176243, US2008171094, US2008153755, US2007197447, US2007021347, US2006276378, US2006183191, US2006009383, US2005119184, US2005118112, US2005014932, US2004203026, US2004137532, US2004002452, US2003220257, US2003180303, US2003153502, EP1458866, EP1458866, EP1310558, EP1161952, EP1129718, EP1088890, EP0999849, EP0938585, EP0914144, EP0890648, EP0762889, EP0760849, EP0754050, EP0754049, EP0690720, EP0689592, EP0682524, EP0610445, EP0610445, EP0586573, EP0563222, EP0544832, EP0544832, EA028491, DE19729810, DE19729810, AU703728, AU695125, AU695125, AU684503, AU2004247012,

Abstract:
Source: US2002146761A In general, the invention features a recombinant endotoxin-neutralizing polypeptide (RENP)

characterized by (i) an amino acid sequence, (ii) an amino acid sequence and structure that facilitates selective and specific binding to lipopolysaccharide and (iii) once bound to the lipopolysaccharide, provides endotoxin-neutralizing activity. Preferably, the RENP is composed of an amino acid sequence similar to, but not identical to, an amino acid sequence of BPI, LBP, or both. Preferably, the RENP contains an LPS-binding domain derived from the amino acid sequence of BPI, LBP, or both. Preferably, the RENPs are covalently bound to a molecule which enhances the half-life of the polypeptide. The RENPs of the invention can be used in pharmaceutical compositions for therapeutic and prophylactic regimens, as well as in various in vitro and in vivo diagnostic methods.

PatBase - US2002146761_AA

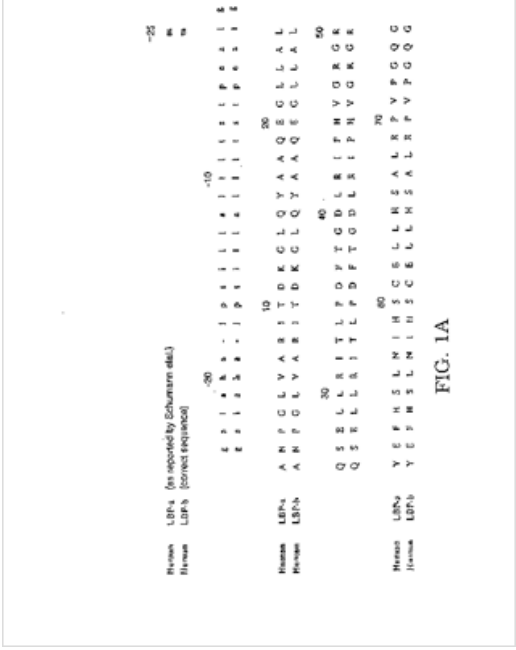


FIG. 1A

171) Family number: 30128191 (US2002099289A)

Title: **MEDICAL** IMAGING **DEVICE**

Priority:

CA19942165829 19940701	CA19942471106 19940701	EP19930906106 19930222
US19920946809 19920917	US19920839178 19920221	US19930086523 19930701
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Probable Assignee:	BOSTON SCIENTIFIC SCIMED INC
Assignee(s):(std)**:**	BOSTON SCIENT CORP ; BOSTON SCIENT LTD ; BOSTON SCIENTIFIC CORP ; PRUTECH RESEARCH AND DEV PARTN ; SCIMED LIFE SYSTEMS INC ; PRUTECH RES AND DEV
Assignee(s):	BOSTON SCIENTIFIC SCIMED INC ; BOSTON SCIENTIFIC TECHNOLOGY INC ; PRUTECH RESEARCH AND DEVELOPMENT PARTNERSHIP II A ; CROWLEY ROBERT J ; BOSTON SCIENTIFIC LTD ST MICHAEL ; LENNOX CHARLES D ; ROPIAK SUSAN M ; ROBERTS TROY W ; HAMM MARK A ; PRUTECH RESEARCH AND DEVELOPMENT PARTNERSHIP II C ; SPECIALIZED HEALTH PRODUCTS ; PRUTECH RESEARCH AND DEVELOPMENT PARTNERSHIP II ; BOSTON SCIENTIFIC LTD ; BOSTON SCIENTIFIC LTD BARBADOS ; ABELE JOHN E ; BEAUDET STEPHEN P
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Designated states:	AT AU BE CA CH DE DK ES FI FR GB GR IE IT JP LU MC NL PT SE US
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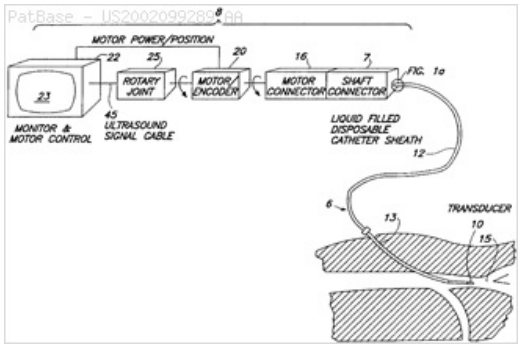
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Abstract:
Source: US2002099289A A **medical** **device** for creating images of tissue within a body includes a disposable liquid-confining sheath supporting an elongate flexible drive shaft which carries an imaging **device** such as a ultrasound transducer. The **device** may include a trocar adapted to receive the sheath, the trocar permitting the **device** to be inserted into the body where no natural passageway exists, the trocar having a side-facing region adapted to maintain registry with the imaging **device** while the imaging **device** rotates. In another embodiment, the drive shaft includes an outer coil that is configured such that when the drive shaft is driven in the direction tending to decrease the diameter of the outer coil, the outer surface of the outer coil pressurizes liquid distally of the outer surface. The **device** optionally includes an inflatable balloon.

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Title: INTERFERON TAU COMPOSITIONS AND METHODS OF USE

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Forward Citations: WO9920653, WO9852594, WO9824469, WO9739127, WO9733607, WO9635789, WO9628183, WO9312146, WO9209691, WO15103749, WO15089322, WO13165963, WO12177892, WO12177892, WO12088001, WO12088001, WO10142017, WO09129616, WO09124362, WO08021536, WO08021536, WO08021487, WO07070385, WO07070385, WO07037098, WO07018846, WO07018846, WO07002233, WO07002233, WO06108128, WO06108128, WO06108128, WO05087255, WO05087255, WO05087254, WO05087254, WO05049068, WO05044297, WO05003147, WO04058295, WO04046331, WO04032863, WO04032863, WO04002404, WO04002404, WO03061728, WO03061728, WO03045978, WO03045978, WO03016472, WO03016472, WO0206343, WO0206343, WO0179271, WO0142471, WO0142471, WO0116178, WO0078266, WO0078266, US9895444, US9889085, US9839672, US9763876, US9750786, US9724293, US9682127, US9642913, US9637512, US9611499, US9585906, US9572889, US9549941, US9539200, US9526763, US9526694, US9394331, US9345766, US9296809, US9284342, US9283280, US9234022, US9221896, US9206217, US9187543, US9186369, US9085573, US9045520, US8993517, US8957046, US8957045, US8927694, US8927497, US8906880, US8895546, US8889159, US8859756, US8841275, US8809354, US8765915, US8759510, US8742101, US8735569, US8735372, US8716263, US8716262, US8691570, US8674085, US8642756, US8633309, US8629263, US8618076, US8580765, US8563530, US8551973, US8551468, US8513189, US8492539, US8481713, US8470870, US8440631, US8425895, US8415322, US8343937, US8309531, US8299038, US8268791, US8252739, US8232371, US8211439, US8173621, US8143026, US8119603, US8114630, US8097702, US8071539, US8071322, US8034790, US7972847, US7964580, US7868151, US7867482, US7847079, US7824851, US7790153, US7785599, US7781576, US7754718, US7727519, US7695710, US7662798, US7662370, US7655216, US7635689, US7625875, US7625555, US7611700, US7608600, US7608597, US7601820, US7598373, US7592010, US7582618, US7550432, US7547704, US7521424, US7507414, US7507413, US7482013, US7456155, US7449177, US7435410, US7431920, US7429572, US7410779, US7365057, US7358333, US7238667, US7232563, US7214367, US7141547, US7138376, US7105154, US7101569, US7094577, US7083782, US7081354, US7067148, US7056701, US7045318, US7041478, US6994857, US6991785, US6989365, US6987006, US6982081, US6972322, US6946134, US6942854, US6926898, US6905688, US6878364, US6833256, US6709679, US6686179, US6555581, US6403562, US6372206, US6342223, US6310039, US6290297, US6204022, US6174996, US6083919, US6060450, US5958402, US5942223, US5939286, US5906816, US5738845, US5705363, US5540923, US5378823, US2014134237, US2011129813, US2011059076, US2011000480, US2010303759, US2010298257, US2010234585, US2010209932, US2010160378, US2010093627, US2010081628, US2010048917, US2010028297, US2009298760, US2009285816, US2009280086, US2009258865, US2009241349, US2009239790, US2009169507, US2009163447, US2009099073, US2009047347, US2009036666, US2008312148, US2008267962, US2008260820, US2008213886, US2008206280, US2008167239, US2008131399, US2008109225, US2008070861, US2008038727, US2008025948, US2008004206, US2007281041, US2007275883, US2007259815, US2007248572, US2007244047, US2007243163, US2007237743, US2007203334, US2007077570, US2007060505, US2007060504, US2007060503, US2007060498, US2007050855, US2007042991, US2007037773, US2007032449, US2007027104, US2007027066, US2007027065, US2007025963, US2007015905, US2007009484, US2007009480, US2006276396, US2006199783, US2006166329, US2006159626, US2006134801, US2006134064, US2006122146, US2006105429, US2006084794, US2006078942, US2006045868, US2006020116, US2005266533, US2005265968, US2005244931, US2005244373, US2005239167, US2005233959, US2005226845, US2005220762, US2005201981, US2005201980, US2005191275, US2005186664, US2005170457, US2005142109, US2005124532, US2005118138, US2005118137, US2005100991, US2005084478, US2005054570, US2005054051, US2005031588, US2005020825, US2005009737, US2005009118, US2005003533, US2004247565, US2004191217, US2004171123, US2004146989, US2004142431, US2004132977, US2004131589, US2004126360, US2004097461, US2004086977, US2004086976, US2004086534, US2004077587, US2004037809, US2004009939, US2004006007, US2004002476, US2003219875, US2003219405, US2003171267, US2003143197, US2003130486, US2003125247, US2003104578, US2003049277, US2003037353, US2003036172, US2003036171, US2003036170, US2003022308, US2003012766, US2002197235, US2002183271, US2002025304, US2001043915, TWI482666, JP2007528407, JP2007314579, JP2003530839, FR2669824, EP3133161, EP3103880, EP2860260, EP2799442, EP2604620, EP2465935, EP2345661, EP2345659, EP2345658, EP2345657, EP2332952, EP2319856, EP1740201, EP1425409, EP1360962, EP1025124, EP0981359, EP0814831, EP0669981, EP0513336, CN104968673, AU781377, AU718864,

Abstract:
Source: US2002013452A The present invention describes the production of interferon-t proteins and polypeptides derived therefrom The antiviral and anticellular proliferation properties of these proteins and polypeptides are disclosed. One advantage of the proteins of the present invention is that they do not have cytotoxic side-effects when used to treat cells. Structure/function relationships for the interferon-t protein are also described. In one aspect, the invention includes ovine interferon-t. In another aspect the invention includes multiple forms of human interferon-t.

PatBase - US2002013452_AA

Fig. 1A

173) Family number: 3704798 (US5087245A)

Title: SYSTEM AND METHOD FOR DETECTING ABNORMALITIES IN INTRAVASCULAR INFUSION

Priority: CA19902011595 19900306 US19890322291 19890313

Family:

Publication number	Publication date	Application number	Application date
CA2011595 AA	19900913	CA19902011595	19900306
CA2011595 C	19990330	CA19902011595	19900306
DE69004833 D1	19940113	DE19906004833	19900309
DE69004833 T2	19940616	DE19906004833T	19900309
EP0387724 A2	19900919	EP19900104541	19900309
EP0387724 A3	19901128	EP19900104541	19900309
EP0387724 B1	19931201	EP19900104541	19900309
HK1006005 A1	19990205	HK19980105094	19980610
JP1924062 C3	19950425	JP19900062457	19900313
JP3202072 A2	19910903	JP19900062457	19900313
JP6049068 B4	19940629	JP19900062457	19900313
US5087245 A	19920211	US19890322291	19890313

Probable Assignee: CAREFUSION 303 INC

Assignee(s):(std)**:** IVAC CORP ; ALARIS MEDICAL SYST INC

Assignee(s): ALARIS MEDICAL SYSTEMS INC ; BANKERS TRUST CO ; CARDINAL HEALTH 303 INC ; ALARIS MEDICAL INC ; IVAC MEDICAL SYSTEMS INC ; IVAC HOLDINGS INC ; IISBC BANK USA ; CITICORP NORTH AMERICA INC ; IVAC CORP SAN DIEGO CALIF US ; IVAC CORP SAN DIEGO CALIF ; CAREFUSION 303 INC ; IVAC A CORP OF DE CORP ; DOAN DAVID

Inventor(s):(std)**:** DEIBITSUDO DOON ; DOAN DAVID

Inventor(s): DAVID DOAN ; DOAN DAVID SAN DIEGO CALIFORNIA 92115 ; DOAN DAVID SAN DIEGO CALIFORNIA 92115 US

Agent(s): SMART AND BIGGAR

Designated states: CH DE FR GB LI

International class (IPC 8-9): A61M5/00 A61M5/168 G06F19/00 (Advanced/Invention); A61M5/00 A61M5/168 (Core/Invention)

International class (IPC 1-7): A61M A61M31/00 A61M5/00 A61M5/168 A61M5/36 G06F15/42 G06F19/00

CPC: Y10S128/12 A61M5/16859

European class: A61M5/168D4B

US class: 128/DIG.12 604/67

Classification Explorer

Cited documents: US4898476 A, US4846792 A, US4743228 A, US4710163 A, US4534756 A, US4460355 A, US4457751 A, US4237905 A, US3853118 A, JPS6034454, JP60034454 A2, EP0332330 A2, EP0328163 A2, EP0248633 A2, EP0248632 A2, EP0232599 A1,

Forward Citations: WO9804304, WO9804303, WO15150280, WO14105606, WO08036890, WO0013726, US9861733, US9740829, US9677555, US9675756, US9421329, US9320851, US9222987, US9211377, US9173998, US9138537, US9138536, US9123961, US9044537, US9039656, US9033920, US8998885, US8986253, US8965707, US8954336, US8952794, US8926561, US8913368, US8858526, US8775196, US8758323, US8728627, US8672875, US8650937, US8504179, US8497037, US8448824, US8435206, US8408421, US8388567, US8373421, US8323244, US8317770, US8298184, US8287495, US8250483, US8234128, US8177739, US8149131, US8133197, US7955319, US7794443, US7668731, US7654976, US7561986, US7347836, US7318353, US7255683, US7206715, US6985870, US6878132, US6416291, US6358225, US6213972, US6158965, US5935099, US5827223, US5810771, US5810766, US5807321, US5803917, US5795328, US5669877, US5624394, US5520638, US5423746, US5423743, US5376070, US5356378, US5338308, US5295967, US5232439, US5213573, US2015306310, US2015005699, US2014221965, US2011208163, US2011046533, US2011004159, US2010264931, US2010256562, US2010185175, US2010069841, US2010065578, US2008243074, US2008154177, US2008126969, US2008097287, US2008034323, US2008033749, US2008033361, US2008009837, US2007274843, US2007271062, US2007270782, US2006130592, US2005246416, US2005145010, US2005145009, US2005145008, US2005065817, US2004176667, US2004172301, US2004172300, US2004172222, US2004167804, US2004104271, US2004101569, US2003163789, US2003163088, US2003140928, US2002183693, US2002107477, JP2006297143, JP2006239452, EP2767919, EP0784493, EP0554716, DE112012000901, DE112012000897, DE112012000890, DE112012000887, DE112012000879, DE112012000877, DE112012000876, DE112012000869, DE112012000861, DE112012000859, DE112012000854, DE112012000851, DE112012000442, DE102016004908, DE102005003171, CN104363938, CN104363938,

Abstract:
Source: US5087245A The system and method for detecting abnormalities in infusion of parenteral **fluid** involves producing perturbation of **fluid** flow by varying the flow rate of the **fluid** with respect to an equilibrium flow rate, measuring the pressure level, and measuring the pressure of the **fluid** over a period of time, to determine equilibrium pressure and a pressure response of the **fluid** to the perturbation, determining an integral of the difference between the equilibrium pressure and the pressure response, determining resistance to **fluid** flow, determining a second integral of the difference between the pressure response and equilibrium pressure multiplied by time, and determining compliance by dividing the second integral by the first integral. Resistance and compliance values are displayed, and an alarm is generated when the resistance or compliance parameters fall outside of reference ranges.

PatBase - US5087245_A

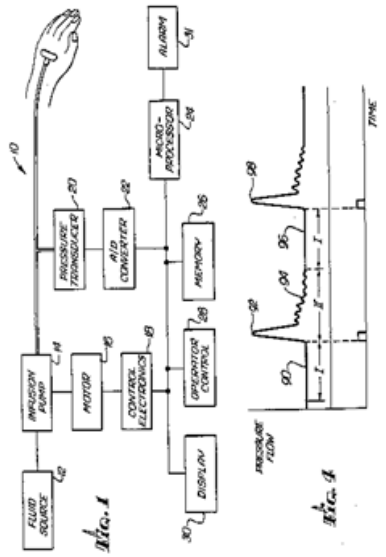


Fig. 1

Fig. 4

174) Family number: 42153108 (WO9011103A2)

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Title: PRE-SLIT **INJECTION** SITE AND TAPERED CANNULA

Priority:

AU19900053332 19900316	AU19900053332 19930422	AU19930037183 19930422
JP19900505095 19900316	JP19950157477 19900316	JP20010319511 19900316
US19890325617 19890317	WO1990US01350 19900316	JP20020217087 19900316

Family:

Publication number	Publication date	Application number	Application date
AU199053332 A1	19901022	AU19900053332	19900316
AU199337183 A1	19930701	AU19930037183	19930422
AU199480222 A1	19950316	AU19940080222	19941206
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AU681317 B2	19970821	AU19950037960	19951120
CA2027591 AA	19901023	CA19902027591	19900316
CA2027591 C	19960227	CA19902027591	19900316
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DE69009131 T2	19950119	DE19906009131T	19900316
DE69019170 D1	19950608	DE19906019170	19900316
DE69019170 T2	19951130	DE19906019170T	19900316
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JP2130747 C3	19970711	JP19900505095	19900316
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JP3504571 T2	19911009	JP19900505095T	19900316
JP7110284 B4	19951129	JP19900505095T	19900316
JP8243092 A2	19960924	JP19950157477	19950623
MX173202 B	19940208	MX19900019915	19900315
WO9011103 A2	19901004	WO1990US01350	19900316
WO9011103 A3	19910110	WO1990US01350	19900316

Probable Assignee: BAXTER INT

Assignee(s):(std)**:** BAXTER INT ; BRADFORD JOHN GEORGES

Assignee(s): EDWARDS LIFESCIENCES CORP ; FINLEY MICHAEL J ; DUDAR THOMAS E ; JEPSON STEVEN C ; DESECKI VINCENT C ; BAXTER INT INC ; BAXTER INTERNATIONAL INC ; BAXTER INTERNATL INC ; BAXTER INTERNATIONAL INCORP0RATED ; BAXTER INTERNATIONAL INC DEERFIELD ILL US ; BAXTER INTERNATIONAL INC DEERFIELD ILL ; BAXTER INT INCORP0RATED

Inventor(s):(std)**:** DESECKI VINCENT ; DESECKI VINCENT C ; DESESUKII BUINSENTO SHII ; DEYUDAA TOOMASU II ; DUDAR THOMAS ; DUDAR THOMAS E ; FINLEY MICHAEL ; FINLEY MICHAEL J ; FUINREE MIKAERU JIEI ; JEPSON STEVEN ; JEPSON STEVEN C ; JIEPUSON SUTEIIBUN SHII

Inventor(s): MICHAEL J FINLEY ; STEVEN C JEPSON ; THOMAS E DUDAR ; VINCENT C DESECKI ; JEPUSON SUTEIIBUN SHII ; FUINREE MIKAERU JEI ; DESESUKII UINSENTO SHII

Agent(s): PETER MAXWELL AND ASSOCIATES; SIM AND MCBURNEY

Designated states: AT AU BE CA CH DE DK ES FR GB IT JP LI LU NL SE

International class (IPC 8-9): A61B5/15 A61B5/153 A61J1/00 A61J1/05 A61J1/14 A61J1/20 A61M25/00 A61M37/00 A61M39/00 A61M39/02 A61M39/04 A61M39/14 A61M5/162 A61M5/32 (Advanced/Invention);
A61B5/15 A61J1/00 A61J1/05 A61J1/10 A61J1/14 (Advanced/Non-invention);
A61B5/15 A61J1/00 A61J1/05 A61J1/14 A61M25/00 A61M37/00 A61M39/00 A61M39/02 A61M5/14 A61M5/32 (Core/Invention);
A61J1/10 (Core/Non-invention)

International class (IPC 1-7): A61B17/34 A61B5/14 A61B5/15 A61J1/05 A61M37/00 A61M39/00 A61M39/02 A61M39/04 A61M39/04 A61M39/10 A61M5/162 A61M5/32

CPC: Y10S604/905 A61J1/2089 A61J1/10 A61J1/1406 A61J1/1475 A61J1/2096 A61M5/162 A61M39/045 A61M39/1011 A61M39/14 A61M2039/1033 A61M2039/1066 A61M2039/1072 A61M2205/195 A61M2205/197 A61J1/201 A61J1/2055

European class: A61J1/20B A61J1/20F A61M39/04B A61M39/10B A61M39/14 A61M5/162 K61J1/10 K61J1/14B K61J1/14P K61J1/20A2A K61J1/20A6B K61J1/20B K61M205/19C2 K61M205/19C4 K61M39/10G K61M39/10U K61M39/10V

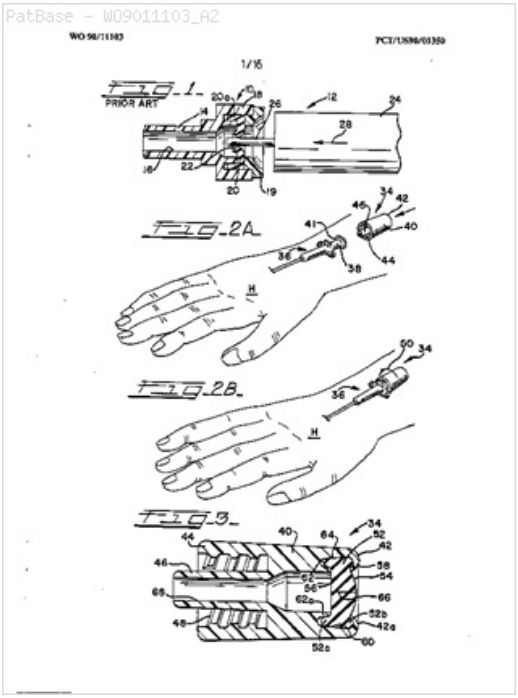
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Forward Citations: WO9422506, WO9422506, WO16206804, WO15160522, WO15004728, WO14021390, WO12164514, WO12164514, WO08115244, WO03090815, WO03020343, WO0247756, USRE43142, USRE39334, USRE38145, USRE37357, USRE35841, US9821540, US9795736, US9381339, US9345871, US9205248, US9186493, US9149573, US9095500, US9056163, US9044554, US8808254, US8585661, US8496624,

US8475416, US8403894, US8172803, US7998122, US7947032, US7635357, US7470261, US7163114, US7033339, US6936031, US6918500, US6808161, US6669681, US6616632, US6605076, US6569125, US6568439, US6447498, US6394979, US6344033, US6261282, US6261266, US6213996, US6193697, US6171287, US6068011, US5899888, US5769825, US5697915, US5549651, US5533708, US5501426, US5474544, US5447495, US5441487, US5417673, US5405331, US5368574, US5324256, US5295658, US5295657, US5251873, US5242393, US5203775, US5098392, KR101490289, JP6133848, JP6109241, JP6086153, JP6047093, JP6027891, JP5973435, JP5742120, JP5697138, JP5667296, JP5506681, JP2015164654, JP2015155020, JP2014522275, JP2014030489, JP2013538758, JP2013535277, JP2013117471, JP2012529932, JP2012065998, JP2012034738, JP2012007650, JP2010536498, JP2010517607, JP2008212738, JP2002087968, ITTO20110481, GB2445437, GB2445437, EP2075021, EP1669101, EP1669101, EP1245282, EP1217284, EP0880371, CN103648577, AU643485, AU635736,

Abstract:
A blunt-ended cannula **device** for use with a pre-slit resealable **injection** site (492), the cannula **device** (512) comprising an elongated member (518) with a **fluid** flow channel extending generally axially therewithin and through a distal end of the member, the member being generally cylindrical along a substantial portion of its length, and terminating in a generally tapered distal end portion having a blunt end edge. A substantially cylindrical sheath (516) surrounds the elongate member (518) and is at least co-extrusive with and spaced apart from the elongated member to protect the member from inadvertent touch contamination. The distal end of the sheath has at least two slots (528) opposite each other for receiving inlet and outlet portions (494,496) of an in-**line** **injection** site (492).



175) Family number: 3269431 (US5269891A)

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Title: Method and **apparatus** for determination of a constituent in a **fluid**

Priority: DK19890001159 19890309 US19910752690 19911007 WO1990DK00067 19900309

Family:

Publication number	Publication date	Application number	Application date
AT117800 E	19950215	AT19900904262T	19900309
AU199052682 A1	19901009	AU19900052682	19900309
AU646219 B2	19940217	AU19900052682	19900309
BRPI9007206 A	19920218	BR1990PI07206	19900309
CA2028840 AA	19901109	CA19902028840	19900309
DE69016428 D1	19950309	DE19906016428	19900309
DK115989 A0	19890309	DK19890001159	19890309
EP0478550 A1	19920408	EP19900904262	19900309
EP0478550 B1	19950125	EP19900904262	19900309
FI914245 A0	19910909	FI19910004245	19910909
HU58915 A2	19920330	HU19900002407	19900309
HU9002407 A0	19911128	HU19900002407	19900309
JP4502514 T2	19920507	JP19900504531	19900309
KR19927001816 A	19920812	KR19917001070	19900309
NO913520 A	19910906	NO19910003520	19910906
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US5269891 A	19931214	US19930009343	19930126
WO9010861 A1	19900920	WO1990DK00067	19900309

Probable Assignee: BRITISH TECHNOLOGY GROUP LIMITED

Assignee(s):(std)**:** BRITISH TECH GROUP ; NORDISK GENTOFTE ; NOVONORDISK AS ; NOVO NORDISK AS

Assignee(s): NORDISK GENTOFTE A S ; NOVO NORDISK A S ; NOVO NORDISK A S DK ; BRITISH TECHNOLOGY GROUP LIMITED ; BRITISH TECHNOLOGY GROUP LTD ; BRITISH TECHNOLOGY GROUP LTD LONDON GB ; COLIN FERNAND J G

Inventor(s):(std)**:** COLIN FERNAND ; COLIN FERNAND JOSEPH GUILLAUME ; COLIN FERNAND JOSEPH ; COLIN FERNAND J G

Inventor(s): COLIN FERNAND JOSEPH GUILLAUME B 1170 WATERMAEL BO ; COLIN FERNAND JOSEPH GUILLAUME BE ; FERNAND JOSEPH GUILLAUME COLIN ; COLIN FERNAND JOSEPH GUILLAUME B 1170... ; COLIN FERNAND JOSEPH BE

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; MCCARTHY TETRAULT LLP

Designated states: AT AU BB BE BG BR CA CH DE DK ES FI FR GB HU IT JP KP KR LI LK LU MC MG MW NL NO RO SD SE SU US

International class (IPC 8-9): A61B5/15 C12M1/40 C12N11/14 C12Q1/00 C12Q1/26 C12Q1/54 G01N27/26 G01N27/30 G01N27/327 G01N27/38 G01N27/416 G01N37/00 (Advanced/Invention);
A61B5/15 C12M1/40 C12Q1/26 G01N27/327 G01N27/416 G01N37/00 (Advanced/Non-invention);
A61B5/15 C12M1/40 C12N11/00 C12Q1/00 C12Q1/26 G01N27/30 G01N27/327 G01N27/416 (Core/Invention);
G01N37/00 (Core/Non-invention);
G01N (Subclass/Invention)

International class (IPC 1-7): A61B5/14 C12M1/40 C12N1/40 C12N11/14 C12Q1/00 C12Q1/26 C12Q1/40 C12Q1/54 G01N27/26 G01N27/30 G01N27/327 G01N27/38 G01N27/416 G01N33/487 G01N33/66

CPC: C12Q1/006 G01N27/38 C12Q1/54

European class: C12Q1/00B6B C12Q1/54 G01N27/38

US class: 204/153.12 204/402 204/403 204/403.11 204/403.14 204/435 205/777.5 205/792 600/347

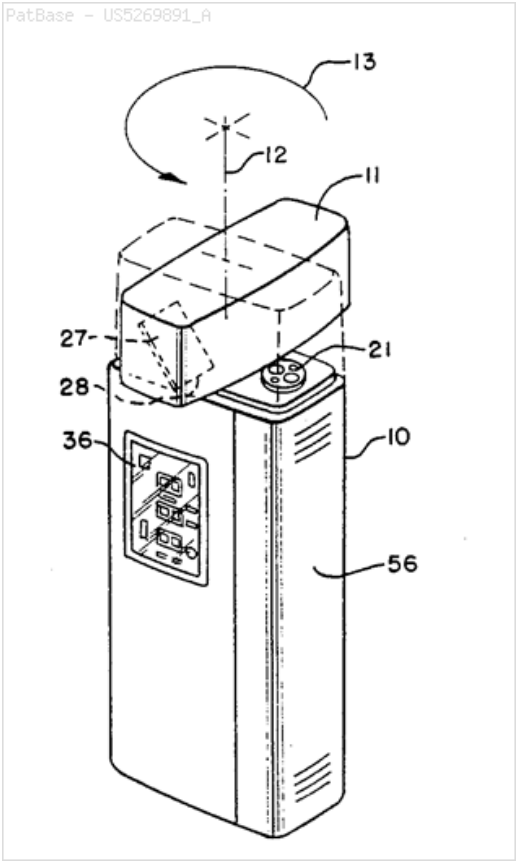
Classification Explorer

Cited documents: WO9109302 A1, WO8910395 A1, US4820399 A, US4758323 A, US4711245 A, US4576704 A, US4545382 A, JP55076946 A2, JP47007749 A2, GB1223363 A, EP0351891 B1, EP0251915 A2, EP0234938 A2, EP0184909 A2, EP0127958 B1, EP0125137 A2, EP0078636 A1,

Forward Citations: WO9938004, WO9702359, WO9207263, USRE44695, USRE43039, US9901307, US9895089, US9891185, US9839395, US9835582, US9833199, US9833176, US9833143, US9814414, US9804114, US9801574, US9801572, US9788766, US9775543, US9757061, US9750460, US9750441, US9746440, US9741139, US9724045, US9724028, US9717449, US9693721, US9668682, US9668677, US9649069, US9610034, US9610031, US9603557, US9597027, US9585607, US9579053, US9572523, US9566026, US9549699, US9549693, US9538946, US9532741, US9510782, US9504430, US9504413, US9504162, US9498165, US9498164, US9498159, US9498155, US9459228, US9451910, US9451908, US9446194, US9445755, US9439589, US9427183, US9420968, US9420965, US9414777, US9410917, US9410915, US9364173, US9357951, US9351668, US9341591, US9339238, US9339223, US9339222, US9328371, US9326716, US9326714, US9316609, US9314196, US9291592, US9282925, US9255903, US9247901, US9247900, US9234864, US9234863, US9220449, US9192328, US9179869, US9173607, US9173606, US9155843, US9155496, US9149234, US9149233, US9149219, US9143569, US9135402, US9110013, US9107623, US9078626, US9078608, US9078607, US9072477, US9066697, US9066695, US9066694, US9060742, US9055901, US9050413, US9044199, US9044178, US9042953, US9041730, US9020573, US9020572, US9014773, US9011332, US9011331, US8989833, US8986209, US8974386, US8954128, US8951377, US8942778, US8929968, US8926585, US8923947, US8920401, US8920319, US8915850, US8915849, US8911369, US8911367, US8909314, US8886273, US8886272, US8882741, US8880137, US8877035, US8870742, US8865249, US8859293, US8858434, US8845536, US8843187, US8840553, US8840552, US8828200, US8825127, US8821400, US8812073, US8812072, US8808531, US8808228, US8808182, US8801612, US8801611, US8801610, US8795177, US8792955, US8792954, US8792953, US8790260, US8788008, US8788007, US8788006, US8777853, US8774888, US8774887, US8774886, US8771187, US8761856, US8750955, US8747315, US8744546, US8744545, US8741590, US8738109, US8734348, US8734346, US8731630, US8728297, US8721850, US8721585, US8721545, US8706180, US8702932, US8701282, US8700117, US8690775, US8688188, US8682408, US8676288, US8676287, US8672845, US8672844, US8670815, US8668645, US8666469, US8663442, US8663109, US8660627, US8657747, US8657745, US8652043, US8650751, US8649841, US8647489, US8641619, US8626257, US8622906, US8622905, US8617071, US8615282, US8612159, US8611978, US8597189, US8591532, US8591455, US8591395, US8588882, US8588881, US8586373, US8583204, US8579816, US8571625, US8565849, US8565848, US8562558, US8562528, US8560039, US8560037, US8548553, US8548551, US8543184, US8532730, US8527026, US8527025, US8515519, US8515516, US8509871, US8507289, US8506740, US8491474, US8483793, US8483791, US8480580, US8478377, US8475373, US8474397, US8473021, US8469886, US8465425, US8463351, US8463350, US8460231, US8457708, US8452368, US8449758,

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Abstract:
Source: US5269891A A method is provided for measuring the concentration of a constituent of a **fluid** sample, e.g. glucose in a glucose-containing blood sample, by means of an electrode **device**. Also provided are an electrode **device** comprising the electrodes used in the method, a sensor electrode for use in the method, and an **apparatus** for use in the measurement of the concentration of the constituent in the sample.



176) Family number: 29381475 (US5198176A)

Title: METHOD FOR THE MANUFACTURE OF SHAPED PRODUCTS OF BIAXIALLY ORIENTED POLYMER MATERIAL

Priority:

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Family:

Publication number	Publication date	Application number	Application date
AT132713 E	19960115	AT19900904508T	19900306
AT158226 E	19971015	AT19920910117T	19920325
AT175147 E	19990115	AT19930908560T	19930324
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AU641915 B2	19931007	AU19900051990	19900306
AU660018 B2	19950608	AU19920017489	19920325
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CA2047674 C	20000606	CA19902047674	19900306
CA2106970 AA	19930924	CA19922106970	19920325
CA2106970 C	20041026	CA19922106970	19920325
CA2132866 AA	19940923	CA19932132866	19930324
CA2132866 C	20051018	CA19932132866	19930324
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DE69322859 D1	19990211	DE19936022859	19930324
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EP0464051 A4	19921125	EP19900904508	19900306
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EP0579737 B1	19970917	EP19920910117	19920325
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US6093364 A	20000725	US19940292692	19940818
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WO9318907 A1	19930930	WO1993US02774	19930324

Probable Assignee: DESIGN TECHNOLOGY INC

Assignee(s):(std)**:** DESIGN TECHNOLOGY INC ; FORTEX INC

Assignee(s): FORTEX INC DENVER COL US ; FORTIN JOHN K ; FUOATETSUKUSU INC ; FORTIN JOHN KEVIN

Inventor(s):(std)**:** FORTIN JOHN ; FORTIN JOHN K ; FORTIN JOHN KEVIN ; JOHN K FORTIN

Inventor(s): FUOATEIN JON KEE

Agent(s): GRIFFITH HACK; SMART AND BIGGAR

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

International class (IPC 8-9): A47J27/00 B29B13/02 B29C49/00 B29C49/08 B29C49/56 B29C49/64 B29C51/00 B29C51/02 B29C51/04 B29C51/06 B29C51/08 B29C51/10 B29C51/18 B29C51/30 B29C51/42 B29C55/26 B29C61/02 B29C61/06 B29D22/00 B29D99/00 B65D1/00 B65D1/40 (Advanced/Invention); B29C49/08 B29C49/64 B29C51/00 B29K23/00 B29K67/00 B29L22/00 B29L23/00 B65D1/00 (Advanced/Non-invention); B29B13/00 B29C49/00 B29C49/08 B29C49/64 B29C51/00 B29C51/08 B29C51/30 B29C55/00 B29C61/00 B29C61/06 B29D22/00 B29D99/00 B65D1/00 (Core/Invention)

International class (IPC 1-7): A47J27/00 B01L3/00 B29B13/02 B29C35/04 B29C49/08 B29C49/56 B29C49/64 B29C49/70 B29C51/02 B29C51/04 B29C51/06 B29C51/10 B29C51/18 B29C51/30 B29C51/42 B29C55/02 B29C55/26 B29C61/02 B29D22/00 B29D29/00 B29D31/00 B29K23/00 B29K67/00 B29L22/00 B65D1/00 B65D1/09 B65D1/40

CPC: Y10S264/907 Y10S264/909 Y10S264/71 Y10S264/901 B29C51/06 B29C49/00 B29C51/00 B29C51/082 B29C51/306 B29C55/26 B29C61/02 B29C61/025 B29C61/06 B29C2791/006 B29C2791/007 B29D22/003 B29K2067/00 B29K2995/0026 B29K2995/0029 B29K2995/0053 B29L2031/712 B29C51/002 B29C51/04 B29C51/426 B29K2995/0017 B29K2995/0049

European class: B29C49/00 B29C51/00B B29C51/04 B29C51/06 B29C51/08B B29C51/30C B29C51/42C B29C55/26 B29C61/02 B29C61/02B B29C61/06 B29D22/00C L29C51/00 L29C61/02 L29C791/00E4 L29C791/00E6 L29K67/00 L29K995/00D8 L29K995/00E6 L29K995/00E7 L29K995/00F10C L29K995/00F9 L29L31/712

US class: 264/230 264/234 264/235 264/342R 264/346 264/522 264/544 264/547 264/548 264/549 264/550 264/901 264/907 264/909 264/DIG.71 425/383 425/387.1 425/398 425/400

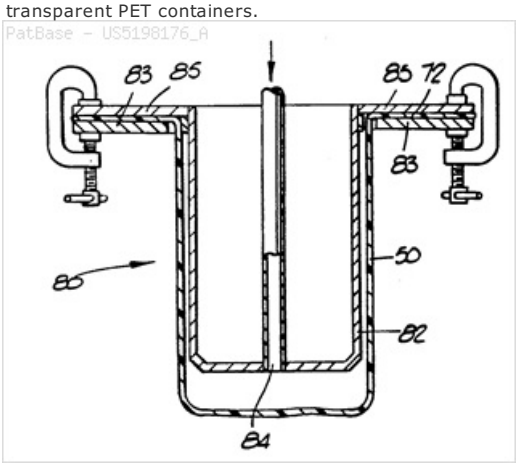
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Cited documents: WO9010410 A1, US6093364 A, US5380481 A, US5283029 A, US5261545 A, US5260005 A, US5248533 A, US5229042 A, US5198176 A, US5178816 A, US5145632 A, US5067888 A, US4943406 A, US4933135 A, US4927680 A, US4878826 A, US4836971 A, US4810457 A, US4711624 A, US4697718 A, US4591060

A, US4590021 A, US4589559 A, US4587075 A, US4582665 A, US4572811 A, US4563325 A, US4524045 A, US4476084 A, US4469270 A, US4432340 A, US4420454 A, US4406854 A, US4405546 A, US4405456 A, US4388356 A, US4381279 A, US4380526 A, US4379099 A, US4375442 A, US4358492 A, US4358428 A, US4330579 A, US4315725 A, US4311660 A, US4298331 A, US4293520 A, US4264558 A, US4260567 A, US4239727 A, US4233022 A, US4177239 A, US4116606 A, US4108937 A, US4045530 A, US4025594 A, US4005967 A, US3995763 A, US3859028 A, US3757718 A, US3746497 A, US3739052 A, US3687594 A, US3662049 A, US3642415 A, US3606958 A, US3546746 A, US3532786 A, US3499188 A, US3439380 A, US3412188 A, US3251914 A, US3244780 A, US3182355 A, US2990581 A, US2973558 A, US2823421 A, US2784456 A, US1838309 A, US1531504 A, JPS62284724, JPS62284723, JPS5978824, JPS56164817, JPS4928027, JP62284724 A2, JP62284723 A2, JP5978824 B4, JP59078824 A2, JP56164817 B4, JP56164817 A2, JP5354270 B4, JP49028027 A2, GB991830 A, GB474001 A, GB1136613 A, EP1136613 A1, EP0155763 A2, DE2950377 A1, BE529591 A, AU209544 A1,

Forward Citations: USD703540, US9903782, US9878101, US9863042, US9764093, US9664626, US9662450, US9572526, US9561602, US9554968, US9545360, US9458536, US9387627, US9333696, US9272095, US9259862, US9162380, US8974212, US8834954, US8800248, US8714962, US8702417, US8632330, US8601694, US8557165, US8512796, US8071213, US8035811, US7985188, US7985062, US7975997, US7459120, US7264464, US6555047, US6517649, US6318988, US6264050, US6180749, US5702665, US5370834, US2016167855, US2015266281, US2014167324, US2014048979, US2011195230, US2011146202, US2010298738, US2010237543, US2010103410, US2010102482, US2010074979, US2010068326, US2009320292, US2009014923, US2008124207, US2008036107, US2007269547, US2006199922, US2005121835, US2004247734, US2004224051, US2004140593, US2004094852, US2002012781, JP2005289040, EP2511075, EP1820551, EP1568466, EP1568466, EP0790118, EP0579737, DE10214714,

Abstract:
Source: US5198176A **Apparatus** and methods for the formation of biaxially oriented thermoplastic articles having flat surfaces or sharp contours, along with the articles themselves. Such **apparatus** and method relate to the heat-shrinking of biaxially oriented intermediates onto male forms to produce articles of exacting dimensions and flat surfaces or sharply defined contours. Such thermoplastic articles include autoclaveable, hot fillable, heat stable, transparent PET containers.



177) Family number: 9065118 (US5134079A)

© PatBase

Title: **FLUID** SAMPLE COLLECTION AND DELIVERY SYSTEM AND METHODS PARTICULARLY ADAPTED FOR BODY **FLUID** SAMPLING

Priority: CA19890602409 19890606 US19890329340 19890327 US19930009417 19930127 US19920869312 19920415

Family:

Publication number	Publication date	Application number	Application date
CA1328359 A1	19940412	CA19890602409	19890606
DE68927800 D1	19970403	DE19896027800	19891219
DE68927800 T2	19970619	DE19896027800T	19891219
EP0389719 A2	19901003	EP19890313313	19891219
EP0389719 A3	19910320	EP19890313313	19891219
EP0389719 B1	19970226	EP19890313313	19891219
US5134079 A	19920728	US19890329340	19890327
US5380665 A	19950110	US19930009417	19930127

Probable Assignee: INT TECHNIDYNE CORP

Assignee(s):(std)**:** INT TECHNIDYNE CORP

Assignee(s): INT TECHNIDYNE CORP 23 NEVSKY STREET EDISON NJ 088 ; INT TECHNIDYNE CORP 23 NEVSKY STREET EDISON NJ 08820 A CORP OF DE ; INT TECHNIDYNE CORP EDISON N J US ; MINTZ MICHAEL D ; COMERICA BANK ; CUSACK ROBERT F

Inventor(s):(std)**:** MINTZ MICHAEL D ; CUSACK ROBERT F

Inventor(s): MINTZ MICHAEL D EDISON NEW JERSEY 08820 US ; CUSACK ROBERT F EDISON NEW JERSEY 08820 US

Agent(s): SWABEY OGILVY RENAULT

Designated states: BE DE FR GB IT NL SE

International class (IPC 8-9): A61B10/00 G01N33/48 G01N35/08 (Advanced/Invention); G01N33/48 G01N35/08 (Core/Invention)

International class (IPC 1-7): A61B10/00 A61B5/14 G01N33/48 G01N35/08

CPC: Y10T436/117497 Y10T436/118339 G01N35/08

European class: G01N35/08

US class: 422/81 422/82 436/52 436/53

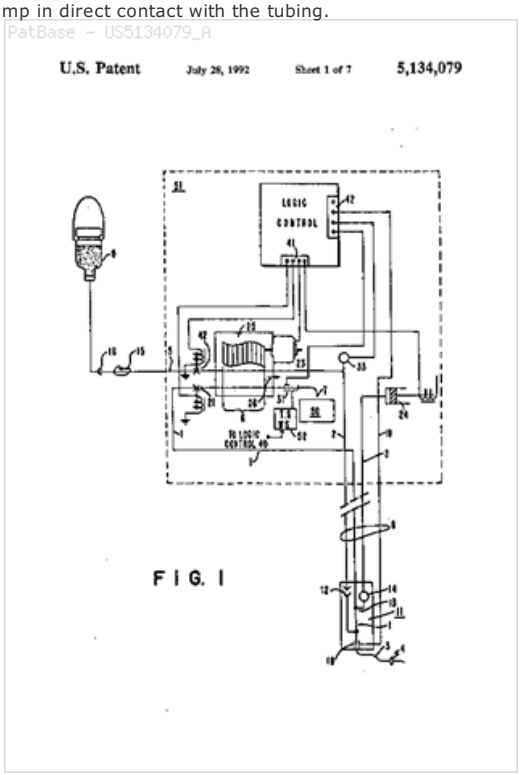
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Abstract:
Source: US5134079A There is disclosed **apparatus** for transporting a sample of body **fluid** such as blood from a first location to a remote test site location. The **apparatus** operates in conjunction with a **fluid** manifold module which has a first sample input port, a second washing **fluid** input port and a third input port for receiving air. There are tubing means **coupled** to said first,

second and third input ports which are **coupled** together and **coupled** to a sample output **line** which extends from the first location to the remote location. The manifold means contains check valves with one valve for blood and one valve for washing **fluid** and a diaphragm pump for air. There are logic means which selectively operate the valves and pump to allow the sample **line** to receive a sample separated by air barriers from washing **fluid** solution. In this manner, a predetermined volume of sample is transported from the first location to the remote test site location. At the test site location, the presence of sample is detected by detection means and the sample is directed to a test site. The remainder of materials such as the washing **fluid** and air are discharged at the remote location. The system includes flexible tubing and the **fluids** as present are pumped from the first locaiton to the remote location by means of a peristaltic pump or other pump in direct contact with the tubing.



178) Family number: 19061305 (US5135488A)

© PatBase

Title: SYSTEM AND METHOD FOR MONITORING, DISPLAYING AND RECORDING BALLOON CATHETER INFLATION DATA

Priority:
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Family:

Publication number	Publication date	Application number	Application date
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WO9215361 A3	19921029	WO1992US01843	19920304

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

International class (IPC 8-9): A61F2/958 A61M25/00 A61M25/10 G01D9/00 (Advanced/Invention);
A61M25/00 (Advanced/Non-invention);
A61B (Subclass/Invention)

International class (IPC 1-7): A61B5/00 A61B5/02 A61M1/00 A61M25/00 A61M25/10 A61M29/00 A61M29/02 A61M31/00 A61M5/00 A61M5/48 G01D3/08 G01D9/00 G01L9/06

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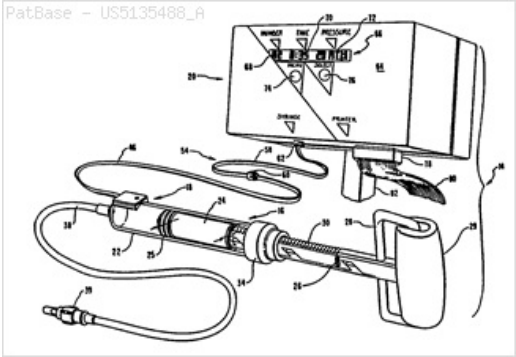
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CN103547305, CN102939124, CN102939124,

Abstract:
Source: US5135488A An electronically controlled syringe system for **connection** to a balloon catheter or other balloon-type member and for automatically monitoring, displaying and recording inflation data when the syringe system is used to inflate the balloon catheter or other balloon-type member. A syringe having a barrel and a syringe plunger is selectively operable to increase **fluid** pressure applied to the balloon catheter or other balloon member by sliding the plunger further into the barrel. Positive pressure applied to the balloon catheter or member can be released by withdrawing the syringe plunger toward the rear of the barrel. A piezoresistive semiconductor transducer housed on the barrel of the syringe senses positive **fluid** pressure applied by the syringe. The electric signal output by the transducer is input to a controller where the signal is digitally processed so as to derive and record therefrom electronic data representing the magnitude or applied **fluid** pressure, and so as also to derive the length of time that positive **fluid** pressure is applied and the electronic data representing this information is automatically displayed and recorded. The controller is also programmable to permit optional selection and input of various control parameters, such as a maximum positive inflation pressure that is to be applied, maximum duration for applying positive inflation pressure, initialization of the date and time of an inflation procedure and/or retrieving and displaying inflation data previously recorded for any prior inflation of the balloon catheter or other balloon member.



179) Family number: 42996947 (US2002065489A)

Title: SAFETY SYRINGE NEEDLE **DEVICE** WITH INTERCHANGEABLE AND RETRACTABLE NEEDLE PLATFORM

Priority:

US19880285012	19881214	US19890327344	19890322	US19910800849	19911129
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US19930128694	19930930	US19930136201	19931015	WO1991CA33972	19910910
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US20020042355	20020111	US19980215519	19981218	US19990460713	19991214
US20000637873	20000815	US19980285012	19981214	US20010800849	20011129

Family:

Publication number	Publication date	Application number	Application date
AT105493 E	19940515	AT19900905392T	19900320
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AU199184449 A1	19920428	AU19910084449	19910910
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CA2049972 C	20000530	CA19902049972	19900320
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CN1147324 C	20040428	CN19941003945	19940322
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WO9205821 A2	19920416	WO1991CA00321	19910910
WO9205821 A3	19920514	WO1991CA00321	19910910

Probable Assignee: INVIRO MEDICAL DEVICES INC

Assignee(s):(std)**:** FRASER ROSSLYN SHARP ; PATCO VENTURES LTD ; INVIRO MEDICAL DEVICES LTD ; NOVACEK LAUREL A ; PATCO VENTURES LIMITED ; MCLEAN DONALD A ; SHARP FRASER R ; SHARP FRASER ROSSLYN

Assignee(s): SOL MILLENNIUM MEDICAL HK LTD ; SOL MILLENNIUM MEDICAL INC ; INVIRO MEDICAL DEVICES LTD BRIDGETOWN ; INVIRO MEDICAL DEVICES LTD BRIDGETOWN BB ; LAUREL A NOVACEK ; INVIRO MEDICAL DEVICES INC ; INVIRO MEDICAL DEVICES LIMITED ; INBAIRO MEDEIKARU DEBAISHIZU LTD ; ASSET RECOVERY ASSOCIATES LLC ; CREDIT SUISSE ADMINISTRATIVE AGENT AS ; CREDIT SUISSE AS ADMINISTRATIVE AGENT ; DONALD A MCLEAN ; DR F ROSS SHARP LTD

Inventor(s):(std)**:** MC LEAN DONALD A ; MCCLEAN DONALD A ; MCLEAN DONALD ; MCLEAN DONALD A ; NOVACEK LAUREL ; NOVACEK LAUREL A ; SHARP FRASER ; SHARP FRASER R ; SHARP FRASER ROSSLYN

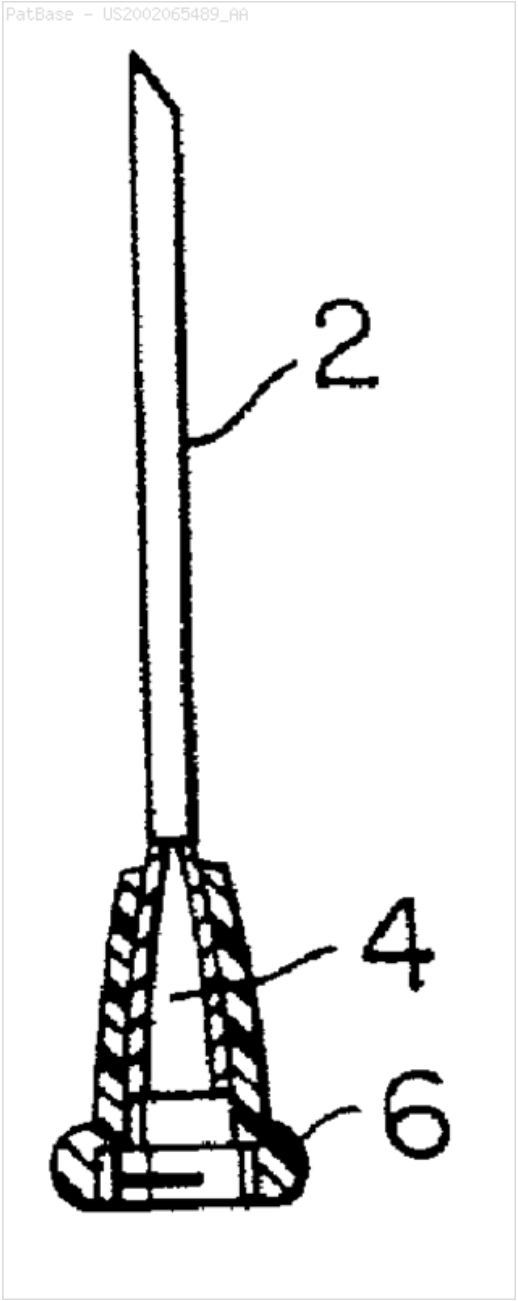
Inventor(s): SHARP FRASER ROSSLYN VANCOUVER BRITISH ; SHARP FRASER R VANCOUVER BRITISH COLUMBIA V6I ; NOVACEK LAUREL A VANCOUVER BRITISH COLUMBIA ; SHAAPU FURASAA ROSURIIN ; MCLEAN DONALD A VANCOUVER BRITISH COLUMBIA V6R ; NOBASEKU ROORERU EE ; DONALD A MCLEAN ; FRASER R SHARP ; FRASER ROSSLYN SHARP ; LAUREL A NOVACEK ; MATSUKURIIN DONARUDO EE

Agent(s):	CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD; SMART AND BIGGAR; NIXON AND VANDERHYE PC; NIXON AND VANDERHYE
Designated states:	AT AU BB BE BF BG BJ BR CA CF CG CH CI CM CS DE DK ES FI FR GA GB GN GR HU IT JP KP KR LI LK LU MC MG ML MN MR MW NL NO PL RO SD SE SN SU TD TG US
International class (IPC 8-9):	A61L2/28 A61M5/00 A61M5/178 A61M5/31 A61M5/32 A61M5/34 A61M5/50 (Advanced/Invention); A61M5/00 A61M5/178 A61M5/31 A61M5/315 A61M5/34 (Advanced/Non-invention); A61L2/26 A61M5/178 A61M5/32 A61M5/50 (Core/Invention); A61M5/00 A61M5/31 A61M5/34 (Core/Non-invention)
International class (IPC 1-7):	A61M5/00 A61M5/178 A61M5/32 A61M5/50
CPC:	A61M2005/3131 A61J1/18 A61M5/3134 A61L2/28 A61M5/002 A61M5/3135 A61M5/3202 A61M5/322 A61M5/347 A61M5/5086 A61M2005/3101 A61M2005/3104 A61M2005/3106 A61M2005/3118 A61M2005/3121 A61M2005/31506 A61M2005/3223 A61M2005/3224 A61M2005/3231 A61M2005/5073 A61M2205/583 A61M2005/3279
European class:	A61L2/28 A61M5/31C2 A61M5/31C3 A61M5/32B A61M5/32C2F A61M5/50H K61M205/58D K61M5/00P K61M5/315B1C2 K61M5/31A2 K61M5/31A3C K61M5/31A3D K61M5/31A6B K61M5/31A6C K61M5/31C1B K61M5/32C2F1D K61M5/32C2F1D2 K61M5/32C2F1K K61M5/32C4B K61M5/34E K61M5/50C2 K61M5/50H
US class:	604/110 604/111 604/195 604/195P 604/198 604/198P 604/240 604/241 604/241S 604/263 D24/130
Classification Explorer	
Cited documents:	WO9011099 A1, WO8912475 A1, WO8908468 A1, US6344031 BA, US6033386 A, US5928200 A, US5882342 A, US5533970 A, US5531694 A, US5458576 A, US5405327 A, US5401246 A, US5395337 A, US5393301 A, US5360404 A, US5342323 A, US5328475 A, US5308329 A, US5304154 A, US5273543 A, US5263933 A, US5256151 A, US5250037 A, US5242400 A, US5205833 A, US5205827 A, US5205824 A, US5205823 A, US5188601 A, US5188597 A, US5152750 A, US5147325 A, US5122124 A, US5112318 A, US5112315 A, US5098402 A, US5053018 A, US5047016 A, US5030208 A, US5007903 A, US4998924 A, US4997423 A, US4995874 A, US4986813 A, US4978340 A, US4955870 A, US4950251 A, US4950241 A, US4946441 A, US4935015 A, US4931040 A, US4929232 A, US4919652 A, US4908022 A, US4883471 A, US4874383 A, US4874382 A, US4861338 A, US4850994 A, US4838870 A, US4832695 A, US4813936 A, US4813426 A, US4810248 A, US4804370 A, US4795443 A, US4790828 A, US4790822 A, US4774964 A, US4770655 A, US4747830 A, US4740205 A, US4710170 A, US4695274 A, US4692156 A, US4675005 A, US4655751 A, US4650468 A, US4631057 A, US4592744 A, US4573976 A, US4562844 A, US4542749 A, US4507117 A, US4459997 A, US4425120 A, US4266544 A, US4266543 A, US4258713 A, US4139009 A, US4085737 A, US4026287 A, US3930492 A, US3884230 A, US3828775 A, US3527216 A, US3487834 A, US3356089 A, US3354882 A, US3306290 A, US2888923 A, US2880725 A, US2722215 A, US2688325 A, JP2005971 A2, GB1150980 A, EP0347742 A1, EP0327061 A1, EP0278493 A2, DE1954509 A1, CN225161, CN225161, CN191355, CN191355, CN157409, CN157409,
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Abstract:
Source: US2002065489A The syringe includes a barrel, a plunger, and an adapter for mounting the needle in the distal end of the barrel. The adapter includes a protrusion projecting away from the needle end and into the barrel defining an annular space between the barrel and the protrusion. The plunger and protrusion have complementary surfaces whereby the plunger may grip the adapter for removal of the adapter into the interior of the barrel after use. These complementary surfaces afford initial resistance to further axial movement of the plunger toward the adapter, signalling the user that further axial pressure will permanently lock the plunger and adapter to one another whereby, upon application of full axial pressure on the plunger, the complementary surfaces of the plunger and adapter permanently lock to one another to enable joint unitary movement of the plunger and adapter together with the needle carried by the adapter into the barrel. The adapter includes vent passages communicating between the central passage through the adapter and the annular space whereby air can be vented from the barrel after receiving **fluid** within the barrel and prior to **injection**. Thus, the syringe may be oriented in a vertical position needle end uppermost with the vent passages forming the most superior portion of the barrel interior whereby air may be vented.

PatBase - US2002065489_AA



180) Family number: 29668747 (US4969880A)

© PatBase

Title: Wound dressing and treatment method

Priority:

CA19902049948 19900403	CA19902369000 19900403	CA19902369000 19900403
US19890322699 19890403	CA19922103033 19920514	US19900504598 19900403
US19890332699 19890403	US19910699936 19910514	CA19922414393 19920514
US19930152440 19931115	WO1990US01777 19900403	WO1992US04019 19920514

Family:

Publication number	Publication date	Application number	Application date
AT146980 E	19970115	AT19900906692T	19900403
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Designated states: AT AU BB BE BF BG BJ BR CA CF CG CH CI CM CS DE DK ES FI FR GA GB GN GR HU IT JP KP KR LI LK LU MC MG ML MN MR MW NL NO PL RO RU SD SE SN SU TD TG US

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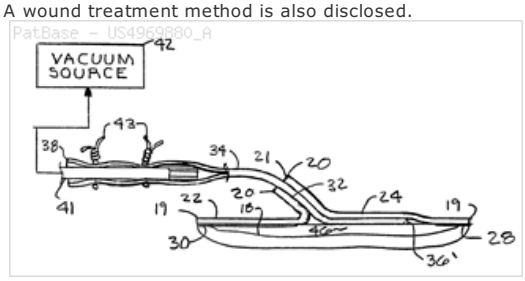
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US2002099360, US2002068913, RU2506092, NL1021473, JP4981992, JP2012530539, JP2011521736,

GB2351025, GB2277035, ES2367498, EP3243533, EP3235524, EP3184552, EP3181178, EP3127577, EP3050582, EP3050545, EP3040091, EP2979709, EP2959872, EP2842593, EP2801388, EP2767305, EP2623138, EP2545946, EP2417947, EP2329855, EP2305327, EP2195069, EP2052750, EP1905465, EP1900383, EP1897569, EP1807145, EP1772160, EP1762205, EP1762205, EP1513478, EP1487390, EP1487390, EP1487389, EP1487389, EP1476217, EP1476217, EP1294325, EP1171065, EP1168997, EP1110516, EP0620720, EP0620720, EP0619105, DE102009023664, DE102008020554, DE102008020553, DE102006042732, CN101972171, AU772162, AU2009251242, AU2003232043,

Abstract:
Source: US4969880A A wound dressing includes a cover membrane comprising a semi-permeable material with an adhesive-coated skin contact surface. An opening is formed in an interior portion of the membrane. An intermediate layer of material may be placed between the wound and the membrane contact surface for either absorbing **fluids** from the wound, e.g. with a hydrocolloid or hydrophilic material, or for passing such **fluids** to the opening with a synthetic material, e.g. rayon. A tube includes a proximate end fluidically communicating with the wound through the membrane opening. A distal end of the tube is adapted for **connection** to a suction source for draining the wound or **fluid** source for introducing liquid medication to the wound. Both evacuation and introduction can be either active or passive. A wound treatment method is also disclosed.



181) Family number: 8894008 (US4966583A)

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Title: **APPARATUS** FOR LOCATING A BREAST MASS

Priority:
CA19902080897 19900426 CA19912125674 19911212 US19900604092 19901029
US19890305965 19890203 US19920948320 19920922 EP19900913980 19900426
US19950466140 19950606 US19940181026 19940114 WO1991US09255 19911212
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Family:

Publication number	Publication date	Application number	Application date
AT170764 E	19980915	AT19900913980T	19900426
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WO9311827 A1	19930624	WO1991US09255	19911212

Probable Assignee: DEBBAS ELIE ALEXANDRIA VA US

Assignee(s):(std)**:** DEBBAS ELIE

Assignee(s): DEBBAS ELIE ALEXANDRIA VA US ; ELIE DEBBAS

Inventor(s):(std)**:** DEBBAS ELIE

Inventor(s): DEBBAS ELIE ALEXANDRIA VA ; ELIE DEBBAS ; DEBBAS ELIE ALEXANDRIA VA US

Agent(s): SMART AND BIGGAR

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

International class (IPC 8-9): A61B17/34 A61B19/00 A61F2/82 A61F2/958 A61M25/00 A61M25/04 A61M25/10 A61M29/00 A61M29/02 (Advanced/Invention);
A61F2/82 A61M25/00 A61M25/02 A61M29/00 A61M29/02 (Core/Invention)

International class (IPC 1-7): A61B17/34 A61B19/00 A61M25/00 A61M25/04 A61M25/10 A61M29/00 A61M29/02

CPC: A61B90/39 A61B2090/3908 A61B2090/3962 A61M25/10 A61B17/3403 A61M25/04

European class: A61B17/34D A61B19/54 A61M25/10 K61B19/54B2 K61B19/54N

US class: 128/737 128/898 600/550 604/103.05 604/915 604/96 604/96.01 604/97.01 604/98 604/98.01 606/185 606/192

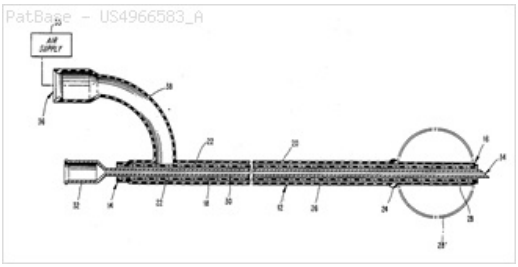
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Forward Citations: WO9729709, WO9401047, WO9324063, WO9221298, WO07120727, WO03096913, WO03066125, WO03066125, WO0033908, WO0012009, WO0010471, USRE43434, USD695891, USD682416, USD676955, USD425980, US9889277, US9888916, US9884451, US9877793, US9867706, US9861793, US9826999, US9820688, US9814453, US9808318, US9770238, US9750496, US9750401, US9743963, US9717895, US9682186, US9669113, US9649477, US9642986, US9636258, US9629687, US9629684, US9629656, US9615775, US9610432, US9610428, US9610073, US9603993, US9603992, US9603506, US9585725, US9579496, US9579488, US9579129, US9572480, US9561094, US9554691, US9545268, US9533133, US9517329, US9510809, US9498604, US9492570, US9492190, US9486227, US9474888, US9468362, US9463068, US9463012, US9457175, US9439642, US9433437, US9421352, US9421005, US9402683, US9402668, US9399121, US9380998, US9370649, US9351750, US9333032, US9308361, US9278180, US9271779, US9271766, US9271741, US9265912, US9265407, US9248268, US9241834, US9226828, US9220879, US9216012, US9198736, US9192395, US9186487, US9179823, US9173650, US9173647, US9167961, US9155544, US9155492, US9149281, US9138222, US9131956, US9107574, US9101384, US9089323, US9089258, US9084876, US9079004, US9072626, US9067362, US9060767, US9055965, US9050440, US9044577, US9039680, US9039657, US9028441, US8998860, US8979888, US8968269, US8968177, US8961495, US8961398, US8951225, US8945088, US8939947, US8932276, US8932271, US8905922, US8894614, US8882654, US8870893, US8864787, US8858586, US8852160, US8852143, US8845699, US8845687, US8828041, US8814902, US8808329, US8808282, US8808199, US8805478, US8795271, US8790276, US8777926, US8764786, US8764729, US8764726, US8764709, US8747439, US8747389, US8740929, US8721591, US8715244, US8715169, US8702626, US8690868, US8641688, US8641676, US8636734, US8617208, US8617185, US8608713, US8603052, US8600481, US8591598, US8591435, US8585663, US8545460, US8540745, US8496657, US8485199, US8475417, US8454645, US8439687, US8435290, US8425457, US8414473, US8388642, US8382724, US8382723, US8328839, US8323275, US8320994, US8320993, US8317816, US8306602, US8298180, US8292880, US8292822, US8282665, US8277391, US8276589, US8257325, US8229553, US8202259, US8190389, US8187296, US8182432, US8177762, US8177707, US8172869, US8172828, US8157831, US8157786, US8146400, US8142422, US8137346, US8123722, US8118757, US8114113, US8114062, US8100933, US8090433, US8088101, US8080000, US8068921, US8048170, US8048087, US8029482, US8025639, US8021324, US7993329, US7981133, US7981050, US7976518, US7967835, US7963975, US7959615, US7955312, US7947022, US7918803, US7905874, US7846108, US7794411, US7785302, US7771347, US7766899, US7766823, US7749241, US7744617, US7727226, US7704203, US7695487, US7691152, US7668582, US7662145, US7651467, US7648466, US7625397, US7491210, US7479152, US7468042, US7384423, US7377902, US7364591, US7357801, US7331980, US7329228, US7322360, US7318824,

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Abstract:
Source: US4966583A A mass localization **device** includes a catheter and a needle. The catheter includes inner and outer walls spaced from each other and creating a gap between the walls extending along substantially the entire length of the catheter. The distal portion of the outer wall includes an inflatable balloon. A port extension member is provided at the proximal end of the catheter for communicating a supply of air to the inflatable balloon via the gap between the inner and outer walls of the catheter. The needle is insertable through the catheter to extend beyond the distal end of the catheter. In use, the combination of the needle and catheter are inserted into body tissue. Under assistance of x-ray radiography, the **device** is moved toward a mass in the tissue. Once proximate the mass, an anesthetizing agent is introduced to the tissue through the needle. Subsequently, the balloon is inflated for contacting the mass, and thus making the mass palpable. The needle is withdrawn from the catheter, and the patient is prepared for a biopsy or other **medical** procedure. An incision to the mass can be achieved by the shortest possible distance since the mass is made palpable.



182) Family number: 33498682 (WO9012606A2)

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Title: PRE-SLIT **INJECTION** SITE AND TAPERED CANNULA

Priority: AU19900054421 19900404 US19890335927 19890410 WO1990US01819 19900404

Family:

Publication number	Publication date	Application number	Application date
AU199054421 A1	19901116	AU19900054421	19900404
AU199339841 A1	19930805	AU19930039841	19930526
AU635736 B2	19930401	AU19900054421	19900404
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JP6503005 T2	19940407	JP19900506172T	19900404
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WO9012606 A3	19921015	WO1990US01819	19900404

Probable Assignee: BAXTER INT

Assignee(s):(std)**:** BAXTER INT

Assignee(s): BAXTER INT INC ; BAXTER INTERNATIONAL INC ; BAXTER INTERNATIONAL INC DEERFIELD ; BAXTER INTERNATIONAL INC DEERFIELD ILL 60015 US ; BAXTER INTERNATIONAL INC DEERFIELD ILL US ; EDWARDS LIFESCIENCES CORP ; GORDON MARK G ; NOBLITT BRENT ; SHEPHERD DAVID J ; MINAILO MICHAEL ; DUDAR THOMAS E ; JEPSON STEVEN C

Inventor(s):(std)**:** DUDAR THOMAS ; DUDAR THOMAS E ; GORDON MARK ; GORDON MARK G ; JEPSON STEVEN ; JEPSON STEVEN C ; MINAILO MICHAEL ; SHEPHERD DAVID ; SHEPHERD DAVID J ; NOBLITT BRENT

Inventor(s): NOBLITT BRENT IRVINE CA 92714 US ; STEVEN C JEPSON ; THOMAS E DUDAR ; MINAILO MICHAEL NEWPORT BEACH CA 92663 US ; BRENT NOBLITT ; DAVID J SHEPHERD ; MARK G GORDON ; MICHAEL MINAILO

Agent(s): PETER MAXWELL AND ASSOCIATES; SIM AND MCBURNEY

Designated states: AT AU BE CA CH DE DK ES FR GB IT JP LU NL SE

International class (IPC 8-9): A61J1/00 A61J1/20 A61M39/02 A61M39/04 A61M39/10 A61M39/14 A61M5/14 A61M5/158 A61M5/162 A61M5/36 (Advanced/Invention);
A61J1/00 A61J1/05 A61J1/10 A61J1/14 A61M5/14 (Advanced/Non-invention);
A61J1/00 A61J1/14 A61M39/00 A61M39/02 A61M5/14 A61M5/36 (Core/Invention);
A61J1/05 A61J1/10 A61M5/14 (Core/Non-invention)

International class (IPC 1-7): A61B5/14 A61M39/00 A61M39/02 A61M39/04 A61M5/158 A61M5/162 A61M5/178 A61M5/31 A61M5/32

CPC: Y10S604/905 A61J1/2089 A61J1/10 A61J1/1406 A61J1/1475 A61J1/2096 A61M5/162 A61M5/36 A61M39/02 A61M39/045 A61M39/10 A61M39/14 A61M2005/1403 A61M2039/1027 A61M2039/1033 A61M2039/1066 A61M2039/1072 A61M2039/1077 A61M2205/195 A61M2205/197 A61J1/201 A61J1/2055

European class: A61J1/20B A61J1/20F A61M39/02 A61M39/04B A61M39/10 A61M39/14 A61M5/162 A61M5/36 K61J1/10 K61J1/14B K61J1/14P K61J1/20A2A K61J1/20A6B K61J1/20B K61M205/19C2 K61M205/19C4 K61M39/10F K61M39/10G K61M39/10U K61M39/10V K61M39/10W K61M5/14A8

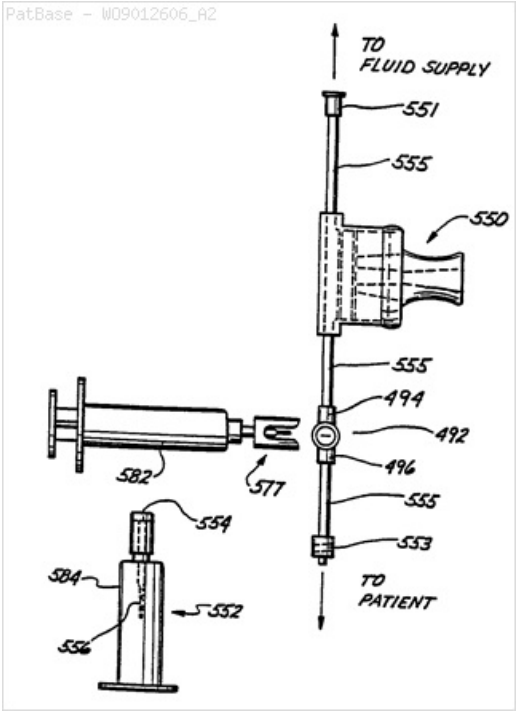
Classification Explorer

Cited documents: WO8900836 A1, US5135489 A, US4981140 A, US4944397 A, US4920970 A, US4878897 A, US4874366 A, US4838855 A, US4834716 A, US4673386 A, US4543088 A, US4233973 A, FR2049513 A5, EP0309771 A1, EP0223451 A2, AU634532 B2, AU626831 B2,

Forward Citations: WO9913937, WO9913937, WO9640321, WO13183583, WO12069802, WO12069802, WO11039306, WO04096326, WO0024313, US9687249, US9623227, US9585620, US9420952, US9357929, US9055925, US9017255, US8814792, US8777931, US8287517, US8257287, US8257286, US8002765, US7722576, US7722575, US7717887, US7717886, US7717885, US7717884, US7717883, US7713249, US7713248, US7713247, US6936031, US6626884, US6605076, US6585697, US6569125, US6447498, US6261266, US6213978, US6206858, US6193697, US5693008, US5620008, US5300034, JP2015071458, JP2013252165, JP2010527851, JP2010194105, JP2008229311, JP2005058638, EP2803868, EP2566545, EP2305204, EP2233170, EP1945294, EP1945294, EP1669101, EP1669101, EP1208872, EP0836488, EP0805930, EP0645980, EP0645980, DE102014012969, DE102005052927, DE10034419, AU638521, AU2012216458, AU2011248810, AU2006304654,

Abstract:
A pre-slit **injection** site (34) includes a housing (40) with a flow path therethrough. A first end (42) of the housing (40) carries a pre-slit septum (52). One form of a blunt cannula (98), usable with the **injection** site (34), carries a locking member (100). When the pre-slit **injection** site (34) slidably receives the blunt cannula (98), the locking member (100) latches to the **injection** site (34) and creates a mechanically **coupled** unit. Another form of the cannula (280) includes a tube having a tapered distal end region (298) and having elongate discharge slots (294) for reducing contact surface area and for directing the flow laterally out of the cannula. The cannula may also include a rounded lead post (330), an annular barb (394), and axially oriented grooves (268). A blood sampling system utilizing an in-**line** pre-slit **injection** site (492) and a shielded blunt cannula (512). An adapter for transferring **fluids** from a syringe with a blunt cannula to an evacuated tube, including a pre-slit **injection** site (554) and a shroud covered needle (556) with a rubber sleeve.

PatBase - WO9012606_A2



183) Family number: 3578033 (US4969336A)

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Title: Cryogenic storage **apparatus**, particularly with automatic retrieval

Priority:
CA19892003863 19891124 US19890389543 19890804 US19900482239 19900220
US19910660736 19910222 US19910670979 19910318 US19900535414 19900608
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WO1992US02187 19920317

Family:

Publication number	Publication date	Application number	Application date
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WO9216800 A1	19921001	WO1992US02187	19920317

Probable Assignee: CRYO CELL INT INC

Assignee(s):(std)**:** CRYO CELL INT ; CRYO CELL INT INC ; CRYO CELL INT INC A ; KURAIOOSERU INTERNATL INC

Assignee(s): CRYO CELL INT INC A OF DE CORP ; RICHARD DANIEL D ; KNIPPSCHEER HERMANN ; CRYO CELL INT INC A CORP OF DE ; CRYO CELL INT INC A DELAWARE CORP

Inventor(s):(std)**:** RICHARD DANIEL D ; KNIPPSHEER HERMANN ; KNIPPSCHEER HERMANN ; HAAMAN NITSUPUSUCHIA ; DANIERU DEII RICHIYAADO

Inventor(s): DANIEL D RICHARD ; HERMANN KNIPPSHEER ; HERMANN KNIPPSCHEER

Agent(s): PHILLIPS ORMONDE FITZPATRICK; RIDOUT AND MAYBEE LLP; DR SHLOMO COHEN AND CO

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

International class (IPC 8-9):
A01N1/00 A01N1/02 A23L3/36 B65G1/00 B65G1/127 B65G1/137 F25B29/00 F25D13/00 F25D13/02 F25D13/04 F25D16/00 F25D19/02 F25D23/02 F25D25/00 F25D25/04 F25D29/00 F25D3/10 F25D3/11 F25D31/00 G01N1/28 G01N1/42 G01N33/48 G01N35/00 G01N35/02 G01N35/04 (Advanced/Invention);
A01N1/02 A23L3/36 F25D25/00 F25D3/10 G01N1/28 G01N33/48 G01N35/02 G01N35/04 (Advanced/Non-invention);
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G01N35/02 G01N35/04 (Core/Non-invention);
F25B (Subclass/Invention)

International class (IPC 1-7):
A01N1/00 B65G1/00 B65G1/127 B65G1/137 C12N1/04 C12Q1/00 F17C9/00 F25B13/00 F25B29/0 F25B29/00 F25D13/00 F25D13/02 F25D13/04 F25D13/06 F25D13/2 F25D19/02 F25D23/02 F25D25/00 F25D25/04 F25D3/10 F25D3/11 F25D31/00 F25D5/10 G01N1/28 G01N33/48 G01N35/04

CPC: A01N1/0242 Y10S206/822 Y10S220/13 A01N1/0268 A01N1/0263 A01N1/0257 B65G1/127 B65G1/1371 F25D16/00 F25D25/04 F25D29/00 G01N35/021 Y10T436/114165 F25D3/11 G01N1/42 G01N35/0092 G01N2035/00445 G01N2035/0093 G01N2035/041 G01N2035/0417 A01N1/02

European class: A01N1/02 A01N1/02M2T2 A01N1/02M4 B65G1/127 B65G1/137B F25D16/00 F25D25/04 F25D29/00 F25D3/11 G01N1/42 G01N35/00G5 S01N35/00E4 S01N35/00G5A S01N35/02B S01N35/04A2B S01N35/04A3C

US class: 165/104.21 165/48.1 206/822 220/DIG.13 414/331 414/331.04 422/63 422/65 422/67 435/286.1 435/290 435/307.1 436/48 62/266 62/336 62/337 62/440 62/441 62/448 62/529 62/63 62/65

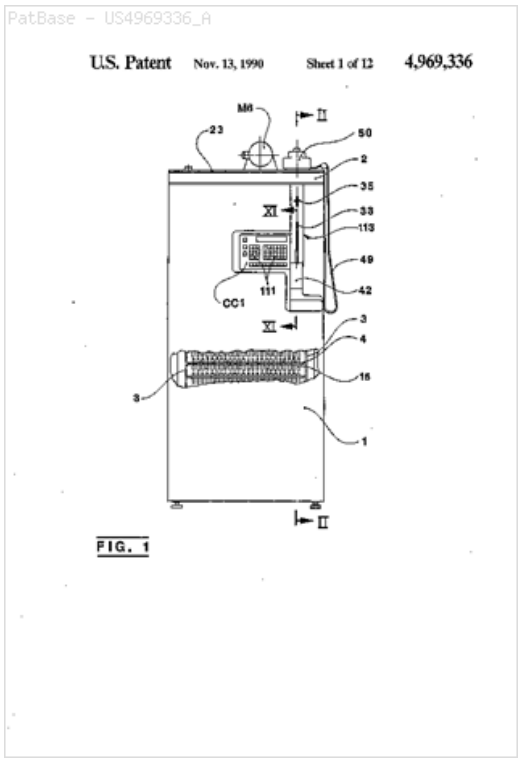
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A, US1933257 A, JP57074534 A2, EP0282785 A1, DE2509762 A1,

Forward Citations: WO9858216, WO9858215, WO9847357, WO9847357, WO9843592, WO9843592, WO9829702, WO9727439, WO9626402, WO9316591, WO9303891, WO9216800, WO17189848, WO16074720, WO16067699, WO10132885, WO10132885, WO10065772, WO10057589, WO08070243, WO08070243, WO05119152, WO05064308, WO04055456, WO04042368, WO0216844, WO0195716, WO0195716, US9888681, US9779780, US9745176, US9700892, US9638453, US9637513, US9459312, US9447995, US9446911, US9441893, US9413396, US9372016, US9358541, US9205969, US9174791, US9174790, US9151770, US9140476, US9139351, US9138295, US9005542, US9001456, US8964361, US8951719, US8925334, US8887944, US8863532, US8831771, US8794012, US8712580, US8703259, US8687356, US8687349, US8655482, US8628239, US8549912, US8549866, US8547123, US8482915, US8467180, US8466699, US8451608, US8444938, US8431384, US8405971, US8305751, US8283165, US8279603, US8272225, US8238099, US8226923, US8160739, US8140182, US8117480, US8116079, US8102173, US8095234, US8086343, US8041449, US8028532, US7996174, US7995349, US7987018, US7945424, US7940529, US7932734, US7929303, US7920380, US7914737, US7911778, US7908029, US7904211, US7890207, US7848106, US7778031, US7718442, US7641854, US7584240, US7540168, US7353658, US7287951, US7228688, US7142987, US7137261, US7104074, US6996995, US6945056, US6941762, US6931864, US6890442, US6796142, US6688123, US6681581, US6656380, US6615914, US6615592, US6581395, US6519954, US6467285, US6309034, US6302327, US6073460, US5993387, US5983648, US5964095, US5921102, US5842179, US5819842, US5638686, US5601141, US5446263, US5435685, US5422025, US5327731, US5305615, US5233844, US2014145574, US2014075968, US2013067950, US2012272500, US2012134898, US2012122072, US2012021452, US2011219788, US2011189934, US2011172807, US2011123301, US2011106298, US2011030393, US2011013362, US2011012632, US2011011844, US2010310344, US2010302678, US2010265609, US2010248363, US2010213200, US2010209957, US2010178210, US2010174404, US2010165501, US2010161119, US2010075858, US2009297328, US2009265043, US2009265032, US2009262455, US2009262454, US2009262445, US2009262444, US2009261229, US2009261228, US2009153994, US2009153993, US2009153992, US2009133411, US2008112933, US2008092581, US2007231223, US2007180836, US2007125099, US2007084222, US2006002820, US2005265905, US2005180998, US2004247424, US2004154322, US2004142371, US2004101966, US2004098204, US2004065093, US2004006999, US2003150508, US2003129755, US2003088657, US2003087455, US2003087446, US2003087425, JP2016088659, GB2463134, GB2463134, GB2337588, EP3229029, EP2705752, EP2208951, EP1561093, EP1533073, EP0880664, EP0811140, DE102008057981, DE102008057981, DE10144925, DE10060889, CN105379706, CN104528213, CN104528213, CN104417908, CN103569511,

Abstract:
Source: US4969336A A cryogenic storage **apparatus** comprises a housing with an automatically operated access door. A holder **device** disposed in the housing supports a plurality of specimen-containing ampules, while a conveyor moves the holder **device**, together with the plurality of ampules, through cooling **fluid** in the housing along a path preferably including a snaking portion with vertically extending folds. An inverted L-shaped cooling component with an opened upper side is disposed in the housing for maintaining the cooling **fluid** at a predetermined low temperature. An extraction mechanism disposed outside of the housing at the access door serves to remove a selectable ampule positioned in the housing in juxtaposition to the door. A tracking **device** automatically tracks the positions of the ampules during motion thereof along the snaking path, while a control unit **connected** to the tracking **device**, the drive mechanism, the conveyor and the extraction mechanism activates the conveyor to move a given ampule along the path to the access door, opens the access door, and operates the extraction mechanism to remove the given ampule from the holder **device** and out through the opened door.



184) Family number: 30174416 (US5545727A)

Title: DNA ENCODING FUSED DI-ALPHA GLOBINS AND PRODUCTION OF PSEUDOTETRAMERIC HEMOGLOBIN

Priority:

EP19900610036	19900510	EP19920925173	19921106	EP19950110064	19900510
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WO1996US10420	19960606				

Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: RHB1 ACQUISITION CORP

Assignee(s):(std)**:** BAXTER BIOTECH TECH SARL ; BAXTER BIOTECH TECHNOLOGY S A ; BAXTER BIOTECH TECHNOLOGY S A R L ; MADRIL DOMINIC G ; KERWIN BRUCE A ; EPP JANET K ; ANDERSON DAVID C ; ANTHONY CAHILL SPENCER ; BAXTER BIOTECH TECHNOLOGY SARL ; SOMATOGEN INC ; SOMATOGENETICS INT ; MEDICAL RES COUNCIL ; SOMATOGENETICS INT I ; TRIMBLE STEPHEN P ; MATHEWS ANTONY J ; MARQUARDT DAVID A ; SOMATOGENETICS INT INC ; SOMATOGENETICS INTERNATIONAL INC ; MEDICAL RESEARCH COUNCIL ; SOMATOGEN INC US ; BAXTER BIOTECH TECHNOLOGY S R ; SOMATOGENETICS INTERNAT INC

Assignee(s): SOMATOGEN INC BOULDER US ; SOMATOGENETICS INTERNATIONAL INC US ; STETLER GARY L ; NAGAI KIYOSHI ; ROSENDAL MARY S ; WAGENBACH MICHAEL ; MATHEWS ANTHONY J ; 2140304 ONTARIO INC ; THERAPURE BIOPHARMA INC ; HEMOSOL LP ; HEMOSOL BIOPHARMA INC ; MEDICAL RESEARCH COUNCIL LONDON GB ; SOMATROGEN INC ; RHB1 ACQUISITION CORP ; BAXTER BIOTECH TECHNOLOGY S A R L NEUCHATEL ; LOOKER DOUGLAS L ; HOFFMAN STEPHEN J ; BAXTER BITECH TECHNOLOGY SARL ; BAXTER BIOTECH TECHNOLOGY S RL ; BAXTER BIOTECH TECHNOLOGY S R L ; BANK OF NOVA SCOTIA ; BAXTER BIOTECH TECHNOLOGY SARL ROUTE DE PIERRE A B ; HEMOSOL INC

Inventor(s):(std)**:** ANDERSON DAVID C ; ANTHONY CAHILL SPENCER ; ANTHONY JAMES MATHEWS ; ANTONY J MATHEWS ; ANTONY JAMES MATHEWS ; BRUCE A KERWIN ; DAVID A MARQUARDT ; DAVID C ANDERSON ; DOMINIC G MADRIL ; DOUGLAS L LOOKER ; EPP JANET K ; GARY L STETLER ; HOFFMAN STEPHEN J ; HOFFMAN STEVEN J ; HOFFMANN STEPHEN J ; JANET K EPP ; KERWIN BRUCE A ; LOOKER DOUGLAS L ; MADRIL DOMINIC G ; MARQUARDT DAVID A ; MARY S ROSENDAL ; MATHEWS ANTHONY J ; MATHEWS ANTHONY JAMES ; MATHEWS ANTONY J ; MATHEWS ANTONY JAMES ; MICHAEL WAGENBACH ; NAGAI KIYOSHI ; ROSENDAL MARY S ; SPENCER ANTHONY CAHILL ; STEPHEN J HOFFMAN ; STEPHEN P TRIMBLE ; STETLER GARY L ; TRIMBLE STEPHEN P ; WAGENBACH MICHAEL ; WAGENBACH MICHAEL US ; WAGENBACK MICHAEL ; STETLER GARY ; ROSENDAHL MARY S ; MATHEWS ANTHONY ; ANDERSEN DAVID C ; MATHEWS ANTONY ; ANDERSON DAVID

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Agent(s): GRIFFITH HACK; SMART AND BIGGAR; MCCARTHY TETRAULT LLP; BASSETT RICHARD SIMON ET AL; WOLFF BREGMAN AND GOLLER

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

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Classification Explorer

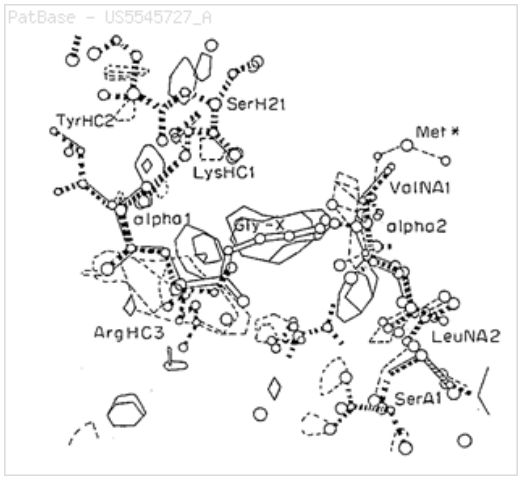
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Abstract:
Source: US5545727A The alpha subunits of hemoglobin, which in nature are formed as separate polypeptide chains which bind noncovalently to the beta subunits, are here provided in the form of the novel molecule di-alpha globin, a single polypeptide chain defined by **connecting** the two alpha subunits either directly via peptide bond or indirectly by a flexible amino acid or peptide linker. Di-alpha globin may be combined in vivo or in vitro with beta globin and heme to form hemoglobin. Di-alpha globin is expressed by recombinant DNA techniques. Di-beta globin may be similarly obtained. DNA encoding alpha globin fusion proteins is provided.


PatBase - US5545727_A
SerH21
TyrHC2
LysHC1
Met *
ValNA1
alpha1
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alpha2
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LeuNA2
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185) Family number: 31019555 (US2003153731A)

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Title: ENDOTHELIAL CELL-LEUKOCYTE ADHESION MOLECULES (ELAMS) AND MOLECULES INVOLVED IN LEUKOCYTE ADHESION (MILAS)

Priority:

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Family:

Publication number	Publication date	Application number	Application date
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WO9116900 A1	19911114	WO1990US06198	19901026
WO9625705 A1	19960822	WO1996US01930	19960213

Probable Assignee: FUJITSU LTD

Assignee(s):(std)**:** BENJAMIN CHRISTOPHER D ; BIOGEN IDEC INC ; BIOGEN INC ; BIOGEN NV ; GOELZ SUSAN E ; FUJITSU LTD ; HESSION CATHERINE A ; LOBB ROY R ; OSBORN LAURELEE ; ROSA MARGARET D ; HAL COMPUTER SYSTEMS INC ; SHEN GENE W ; SZETO JOHN ; PATKAR NITEEN A ; SHEBANOW MICHAEL C ; OSONE HIDEKI ; SIMONE MICHAEL A ; MARUYAMA TAKUMI ; BIOGEN INC A MASSACHUSETTS COR

Assignee(s): BIOGEN INC CAMBRIDGE MASS US ; SANGSTAT MEDICAL A CORP ; SANGSTAT MEDICAL A CORP OF CA ; BIOGEN INC A CORP OF MA ; BIOGEN MA INC ; SANGSTAT MEDICAL ; YOKOGAWA ELECTRIC CORP ; FUJITTSU LTD ; BIOGEN INC A MASSACHUSETTS CORP ; BIOGEN IDEC MA INC ; BIOGEN IDEC MA INC CAMBRIDGE

Inventor(s):(std)**:** BENJAMIN CHRISTOPHER ; BENJAMIN CHRISTOPHER D ; CATHERINE R HESSION ; CHRISTOPHER D BENJAMIN ; GOELZ SUSAN E ; HESSION CATHERINE ; LAURELEE OSBORN ; LOBB ROY ; LOBB ROY R ; MARGARET D ROSA ; MARUYAMA TAKUMI ; OSBORN LAURELEE ; OSBORN LAURELES ; OSONE HIDEKI ; PATKAR NITEEN A ; ROSA MARGARET ; ROSA MARGARET D ; SHEBANOW MICHAEL C ; SHEN GENE W ; SIMONE MICHAEL A ; SZETO JOHN ; SUSAN E GOELZ ; ROY R LOBB ; MAGARET D ROSA ; LAURELI OSBORN ; CHRISTOPHER D BENZAMIN ; CATHERINE A HESSION ; GOELZ SUSAN ; OSBORNE LAURELY ; HESSION CATHERINE R ; HESSION CATHERINE A

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Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD; BERESKIN AND PARR LLP; SMART AND BIGGAR; SUNDERLAND JAMES HARRY; ELSY DAVID ET AL; HAMADA HARUO; NISHIYAMA MASAYA; TSURUTA JUNICHI; AOKI ATSUSHI; HIGUCHI SOTOJI; FISH AND RICHARDSON

Designated states: AT AU BE CA CH DE DK ES FR GB GR IE IT JP KP KR LI LU MC NL NO PT SE US

International class (IPC 8-9): A61K31/71 A61K31/7105 A61K35/16 A61K38/00 A61K38/17 A61K38/45 A61K38/55 A61K39/395 A61K45/00 A61K47/48 A61K48/00 A61K49/00 A61K51/00 A61P1/00 A61P17/00 A61P29/00 A61P35/00 C07H13/04 C07H21/04 C07H3/06 C07K14/00 C07K14/19 C07K14/195 C07K14/41 C07K14/43 C07K14/435 C07K14/47 C07K14/70 C07K14/705 C07K16/00 C07K16/18 C07K16/28 C07K16/42 C07K19/00 C07K7/00 C12N1/00 C12N1/15 C12N1/19 C12N1/21 C12N15/00 C12N15/02 C12N15/04 C12N15/09 C12N15/11 C12N15/113 C12N15/12 C12N15/54 C12N15/62 C12N15/63 C12N15/70 C12N5/08 C12N5/10 C12N5/18 C12N9/10 C12N9/78 C12P19/18 C12P21/00 C12P21/02 C12P21/08 C12Q1/02 C12Q1/48 C12Q1/68 G01N33/00 G01N33/15 G01N33/50 G01N33/53 G01N33/536 G01N33/543 G01N33/56 G01N33/566 G01N33/57 G01N33/574 G01N33/577 G06F11/00 G06F11/14 G06F9/00 G06F9/312 G06F9/34 G06F9/38 G06F9/46 G06F9/48 (Advanced/Invention);
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A61K31/71 A61K47/48 C07K14/19 C07K14/43 C07K14/435 C07K16/18 C12N15/113 G01N33/56 G01N33/57 G06F11/00 G06F11/14 G06F9/00 G06F9/34 G06F9/38 G06F9/46 (Core/Invention);
A61K38/00 (Core/Non-invention)

International class (IPC 1-7): A61K31/70 A61K31/7105 A61K35/16 A61K37/00 A61K37/02 A61K37/64 A61K38/00 A61K38/17 A61K38/45 A61K39/395 A61K45/00 A61K48/00 A61K49/00 A61K49/02 A61K51/00 A61P1/00 A61P17/00 A61P29/00 A61P35/00 C07H15/12 C07H17/00 C07H21/04 C07K1/00 C07K13/00 C07K14/00 C07K14/435 C07K14/46 C07K14/47 C07K14/705 C07K15/06 C07K15/12 C07K15/14 C07K15/28 C07K16/00 C07K16/18 C07K16/28 C07K16/42 C07K16/46 C07K19/00 C07K2/00 C07K3/00 C07K4/00 C07K7/00 C12N1/00 C12N1/15 C12N1/19 C12N1/21 C12N15/00 C12N15/02 C12N15/03 C12N15/04 C12N15/05 C12N15/06 C12N15/07 C12N15/09 C12N15/11 C12N15/12 C12N15/54 C12N15/62 C12N15/63 C12N15/70 C12N5/04 C12N5/06 C12N5/08 C12N5/10 C12N5/12 C12N5/18 C12N5/20 C12N5/24 C12N9/10 C12N9/78 C12P19/18 C12P21/00 C12P21/02 C12P21/06 C12P21/08 C12Q1/02 C12Q1/48 C12Q1/68 C12R1/19 G01N33/00 G01N33/15 G01N33/50 G01N33/53 G01N33/536 G01N33/543 G01N33/566 G01N33/574 G01N33/577 G06F11/00 G06F11/14 G06F7/46 G06F9/00 G06F9/30 G06F9/38 G06F9/46 G06F9/48

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European class: A61K47/48T4B28 C07H13/04 C07H3/06 C07K14/705F10 C07K16/28 C07K16/28A30 C07K16/28C10 C07K16/42K14 C07K16/42K14B C12N15/113E C12N9/10D1 C12P19/18 G06F11/14A2C G06F9/30A2 G06F9/30A2L G06F9/38D4 G06F9/38E G06F9/38E1R G06F9/38E2 G06F9/38E8 G06F9/38H2 G06F9/38H3 K61K38/00 M07K203/00 M07K207/00 M07K209/00 M07K213/00 M07K213/02 M07K215/00 M07K316/960 M07K319/30 M12N207/00 M12N310/11 M12N310/12

US class: 395/182 395/183 395/183.14 395/375 395/391 395/394 395/563 395/569 395/586 395/591 395/800 395/800.23 395/800.73 424/134.1 424/192.1 435/172.2 435/240.27 435/252.3 435/320.1 435/320.100S 435/325 435/325S 435/343 435/471 435/476 435/6 435/6.16 435/6.160S 435/69.1 435/69.100S 435/69.6 435/6S 435/7.24 435/724 530/350 530/380 530/387.3 530/388.22 530/388.220P 530/388.7 536/23.1 536/23.4 536/23.5 536/23.500S 536/23.53 712/215 712/216 712/218 712/222 712/228 712/23 712/239 712/244 712/E09.033 712/E09.048 712/E09.049 712/E09.05 712/E09.061 712/E9.033 712/E9.048 712/E9.049 712/E9.05 712/E9.061 712/E90.33 712/E90.48 712/E90.49 712/E90.5 712/E90.61 714/38 714/38.1 714/38.12 714/E11.115

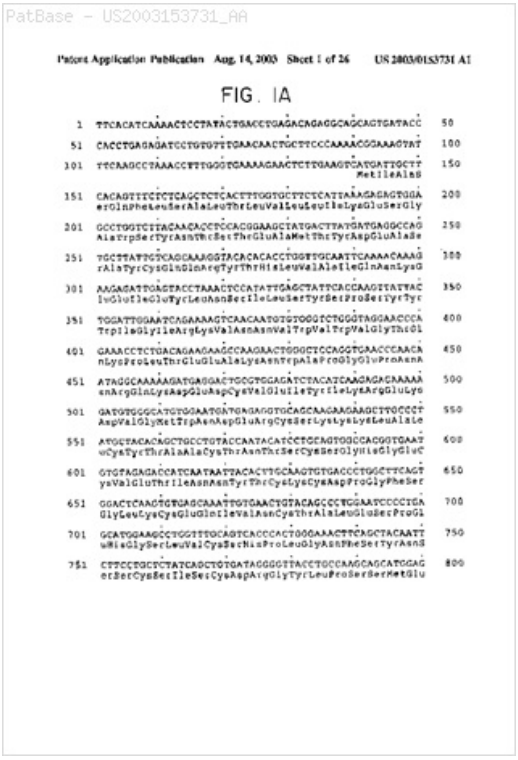
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Forward Citations: WO9932965, WO9700950, WO9513380, WO9513380, WO9402595, WO9317715, WO9307490, WO9307268, WO9219735, WO9219646, WO9218610, WO9218610, WO9200751, WO16105799, WO16043271, WO14152315, WO13160676, WO11031356, WO07002550, WO07002550, WO06101572, WO06101572, WO06099006, WO06099006, WO05068655, WO05068655, WO05038646, WO05038646, WO03035839, WO03035839, WO0150253, USRE44778, US9904625, US9898412, US9891924, US9891915, US9886416, US9886279, US9870328, US9867841, US9858080, US9842005, US9796745, US9785442, US9779028, US9753889, US9753734, US9733831, US9727343, US9710387, US9672044, US9639369, US9632939, US9627038, US9626333, US9606935, US9588845, US9582322, US9580752, US9569270, US9558001, US9535697, US9534009, US9513925, US9436552, US9436476, US9403908, US9382512, US9354882, US9317285, US9286069, US9262170, US9234169, US9223714, US9189282, US9146740, US9109002, US9104425, US9069701, US9063747, US9053227, US9047221, US8972697, US8959277, US8921328, US8895510, US8881157, 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Abstract:
Source: US2003153731A DNA sequences encoding endothelial cell-leukocyte adhesion molecules ELAMs, methods for producing such molecules, and ELAMs (including the specific molecules ELAM1 and VCAM1 and 1b) essentially free of normally associated animal proteins are disclosed. Antibodies against ELAMs are also disclosed. DNA sequences encoding molecules involved in leukocyte adhesion (MILAs), methods for producing such molecules and MILAs (including the specific molecule, CDX) essentially free of normally associated animal proteins are also disclosed. Antibody preparations which are reactive for MILAs and also disclosed. We disclose DNA sequences designated clone 7.2 and clone 1, which cause cells transformed with them to express 1,3-fucosyl transferases and which are involved in CDX expression. We also disclose protein 7.2 and protein 1 which are encoded by clone 7.2 and clone 1, respectively. We also disclose Pseudo-X and Pseudo-X2, proteins which cause COS cells and CHO cells to bind to ELAM1 and to be recognized by alpha-CDX antibodies. Methods for identifying molecules which inhibit binding of leukocytes to endothelial cells, methods for inhibiting leukocyte binding to endothelial cells, and methods for detecting acute inflammation are disclosed.



186) Family number: 12375150 (US5152291A)

Title: ACOUSTIC FIBER MEASUREMENT OF INTRAVASCULAR BLOOD

Priority: US19890352517 19890516 US19900579428 19900907 US19940330032 19941027 US19930140902 19931021 US19930072828 19930607 US19920918298 19920722 WO1991US06206 19910829

Family:

Publication number	Publication date	Application number	Application date
DE69026137 D1	19960502	DE19906026137	19900110
DE69026137 T2	19961024	DE19906026137T	19900110
DE69122741 D1	19961121	DE19916022741	19910829
DE69122741 T2	19970213	DE19916022741T	19910829
EP0397960 A1	19901122	EP19900100469	19900110
EP0397960 B1	19960327	EP19900100469	19900110
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EP0498886 B1	19961016	EP19920902501	19910829
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Probable Assignee: HEWLETT PACKARD CO

Assignee(s):(std)**:** HEWLETT PACKARD CO

Assignee(s): HEWLETT PACKARD CO A CA CORP ; HEWLETT PACKARD COMPANY ; HEWLETT PACKARD CO A DELAWARE CORP ; HEWLETT PACKARD CO PALO ALTO CALIF US ; HP INC ; AGILENT TECHNOLOGIES INC ; HEWLETT PACKARD

Inventor(s):(std)**:** DIAS J FLEMING ; DIAZ J ; JIEI FUREMINGU DEIASU ; MELTON JR HEWLETT E ; MELTON HEWLETT E JR ; DIAZ J FLEMING ; DIAS FLEMING J

Inventor(s): MELTON HEWLETT E

Agent(s): MIZOBE TAKAHIKO; FURUYA SATOSHI

Designated states: AT BE CH DE DK ES FR GB GR IT JP LU NL SE

International class (IPC 8-9): A61B5/00 A61B8/00 A61B8/06 A61B8/08 A61B8/12 G01N29/24 G02B6/26 G10K11/02 G10K11/24 H03H9/145 (Advanced/Invention);
A61B17/22 A61B19/00 (Advanced/Non-invention);
A61B5/00 A61B8/06 A61B8/08 A61B8/12 G02B6/26 G10K11/00 H03H9/145 (Core/Invention);
A61B17/22 A61B19/00 (Core/Non-invention)

International class (IPC 1-7): A61B5/00 A61B8/00 A61B8/06 A61B8/08 A61B8/12 G01N29/24 G02B6/26 G10K11/02 G10K11/24 H03H9/145

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European class: A61B5/1459 A61B8/06 A61B8/08H A61B8/12 A61B8/42F2 A61B8/44N6 A61B8/48D G02B6/26 G10K11/02B G10K11/24 H03H9/145E1 H03H9/145E7 H03H9/145E8 K61B17/22B2B2F K61B19/52H12B12 K61B19/54F K61B8/12 K61B8/44R2

US class: 128/661.08 128/662.03 128/662.06 128/663.01 333/154 600/454 600/459 600/462 600/463 600/467 600/468 600/472 73/861.25

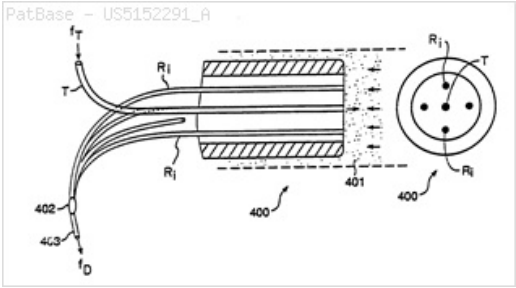
Classification Explorer

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Forward Citations: WO9734288, WO9732298, WO9633754, WO9522283, WO9203971, WO15044831, WO13162765, WO10117630, WO09017853, WO09017853, WO06051128, WO04105617, WO04089188, WO04060168, WO0132258, WO0132258, US9717547, US9707034, US9702243, US9700372, US9579026, US9557490, US9555444, US9532766, US9504392, US9365013, US9339192, US9198581, US9192307, US9149191, US9090315, US9079221, US9078561, US8974445, US8932223, US8926519, US8861908, US8731340, US8666118, US8647281, US8622910, US8560048, US8491567, US8414496, US8391652, US8323203, US8320723, US8317711, US8298149, US8222901, US8169320, US8090131, US8059923, US8047996, US8043222, US8021305, US7952482, US7942568, US7927275, US7909766, US7881573, US7837676, US7789835, US7785286, US7766848, US7727156, US7703327, US7660492, US7630766, US7623037, US7612773, US7603166, US7599588, US7540846, US7527594, US7513876, US7462960, US7447388, US7426409, US7396332, US7393501, US7338447, US7326201, US7314448, US7300414, US7273459, US7245789, US7172622, US7124621, US7123968, US7083614, US7062972, US7058245, US7052462, US7021145, US6993382, US6970732, US6969354, US6780157, US6763722, US6763261, US6659957, US6615071, US6613056, US6603242, US6589174, US6585656, US6574035, US6561983, US6537223, US6517528, US6475159, US6366675, US6361500, US6340347, US6230568, US6221038, US6190323, US6142948, US6108606, US6091406, US6019726, US5989191, US5916210, US5883457, US5865738, US5823965, US5813998, US5807304, US5728124, US5699806, US5640961, US5606975, US5577506, US5549112, US5515850, US5509418, US5509417, US5507294, US5495544, US5488955, US5486170, US5485845, US5419329, US5400788, US5371483, US5350377, US5284148, US2015098488, US2014135624, US2013090576, US2012271170, US2011319927, US2011208017, US2011135026, US2011123154, US2011118632, US2010249604, US2010249603, US2010249599, US2010179424, US2010135111, US2010130892, US2010117804, US2010087732, US2010045289, US2010014810, US2009318812, US2009270737, US2009247879, US2009059727, US2009016555, US2008312536, US2008287801, US2008269615, US2008258580, US2008242994, US2008221458, US2008097217, US2007268287, US2007250000, US2007197895, US2007167824, US2007123776, US2007116408, US2007106155, US2007035204, US2007035201, US2006094980, US2006058711, US2006058614, US2006053891, US2006016243, US2006009753, US2005245981, US2005203416, US2005187469,

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Abstract:
Source: US5152291A One or more acoustic fiber guides are used to carry certain modes of acoustic energy to the tip of a catheter. Using these fibers, reflected sound (Doppler Sound) measurements are made in a blood environment without the risk to the patient associated with the use of an electrical transducer at the distal end of the catheter. Due to the size reduction provided, the Doppler probe is suitable for monitoring the blood flow in the coronary arteries. Using this invention wherein sound is transported to the catheter tip, risk is reduced and the catheter is significantly less expensive, and therefore can be treated as disposable. By the addition of optical fibers tipped with specific dyes and excited by optical energy of appropriate wavelength, the catheter tip system can also be utilized simultaneously as a combined (integral) optical blood gas and pH monitor using optical fluorescence and an acoustic Doppler velocity transducer.



187) Family number: 19230632 (US5041098A)

Title: Vascular access system for extracorporeal treatment of blood

Priority: US19890354614 19890519 US19900595172 19901010 US19920894823 19920608
WO1991US06484 19910913 US19900595172 19901010 WO1990US02681 19900511

Family:

Publication number	Publication date	Application number	Application date
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WO9014118 A1	19901129	WO1990US02681	19900511
WO9207215 A1	19920430	WO1991US06484	19910913

Probable Assignee: ANGIODYNAMICS INC

Assignee(s):(std)**:** PFIZER INC ; STRATO MEDICAL CORP ; STRATO INFUSAID INC ; PFIZER

Assignee(s): NEWORLD BANK ; NATIONSCREDIT COMMERCIAL CORP ; STRATO MEDICAL A CORP OF DE CORP ; STRATO MEDICAL A OF DE CORP ; STRATO INFUSAID INC NORWOOD MASS US ; STRATO MEDICAL CORP BEVERLY MASS US ; STANDARD FEDERAL BANK NATIONAL ASSOCIATION ACTING BY AND THROUGH LASALLE BUSINESS CREDIT INC ITS AGENT AS ; STRATO MEDICAL 123 BRIMBAL AVENUE BEVERLY MA A CORP OF MA CORP ; YOUNG THOMAS M ; STANDARD FEDERAL BANK NATIONAL ASSOCIATION ACTING ; SUTOREITO MEDEIKARU CORP ; SUTORATO MEDEIKARU CORP ; RITA MEDICAL SYSTEMS INC ; RITA MEDICAL SYSTEMS LLC ; STRATO MEDICAL A CORP OF MA CORP ; STRATO MEDICAL 123 BRIMBAL AVENUE BEVERLY MA A COR ; NEWORLD BANK A BANKING CORP ; NEWORLD BANK A BANKING CORP OF MASSACHUSETTS ; PFIZER LTD ; ANGIODYNAMICS INC ; FENTON PAUL V JR ; MICHAEL LOITERMAN CONSULTING INC ; LOITERMAN DAVID A ; GRANTADLER CORP ; HORIZON MEDICAL PRODUCTS INC

Inventor(s):(std)**:** GORMAN WILLIAM J ; LOITERMAN DAVID ; LOITERMAN DAVID A ; MAILLOUX ANDREW M ; MOYNIHAN KELLY A ; PAUL V FENTON ; PAUL V FENTON JR ; DAVID A LOITERMAN ; FENTON PAUL ; FENTON PAUL V ; FENTON PAUL V JR ; FLAHERTY J CHRISTOPHER ; YOUNG THOMAS ; THOMAS M YOUNG ; FENTON JR PAUL V ; YOUNG THOMAS M

Inventor(s): YANGU TOMASU EMU ; YANGU TOOMASU EMU ; YOUNG THOMAS M NORTH ANDOVER MA 01845 US ; LOITERMAN DAVID A OAK BROOK IL 60521 US ; FENTON PAUL V JR MARBLEHEAD MA 01945 US ; FUENTON HOORU UII JUNIA ; ROITAAMAN DEIBITSUDO EI

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; RICHES MCKENZIE AND HERBERT LLP; SMART AND BIGGAR

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

International class (IPC 8-9): A61M1/14 A61M37/00 A61M39/00 A61M39/02 A61M39/12 A61M5/32 F16L33/22 (Advanced/Invention); A61M39/00 (Advanced/Non-invention);
A61M1/14 A61M37/00 A61M5/32 (Core/Invention)

International class (IPC 1-7): A61M1/14 A61M11/00 A61M25/00 A61M37/00 A61M39/00 A61M39/02 A61M5/00 A61M5/32 F16L27/00 F16L33/22

CPC: Y10S604/905 A61M39/12 A61M39/0208 A61M39/105 A61M2039/0211 A61M2039/1033

European class: A61M39/02B A61M39/10M A61M39/12 K61M39/02B2 K61M39/10G K61M39/12

US class: 285/238 285/278 285/280 285/361 604/175 604/283 604/288.02 604/533 604/535 604/905 604/93

Classification Explorer

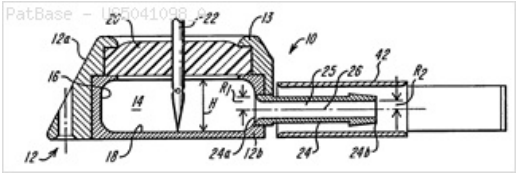
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A, FR782512 A, FR2612784 A1, EP0134745 A1, BE528494 A, AU8624991 A1,

Forward Citations: WO9947201, WO9835710, WO9834676, WO9701370, WO9631247, WO9629112, WO9405351, WO9207215, WO14099323, WO12106161, WO11097451, WO10006186, WO09055271, WO07002179, WO07002179, WO06116438, WO06116438, WO05102442, WO05065766, WO05042058, WO05042058, WO04034940, WO04016313, WO02056774, WO02056774, WO0044424, WO0033901, USRE44639, USRE43453, USRE41448, USD748252, USD682416, USD676955, USD661388, USD650475, USD595892, USD472317, US9895523, US9884168, US9849269, US9814869, US9814844, US9789288, US9782575, US9782567, US9782535, US9764124, US9744343, US9731104, US9717895, US9713704, US9707339, US9687632, US9682186, US9669149, US9662476, US9662475, US9656045, US9642986, US9610432, US9610422, US9603993, US9603992, US9579496, US9579485, US9572956, US9550043, US9533133, US9517329, US9480831, US9474888, US9440018, US9433755, US9427553, US9421352, US9415190, US9387304, US9381323, US9381322, US9381321, US9381038, US9381037, US9364651, US9333331, US9314596, US9295773, US9283355, 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US2003181878, US2003135168, US2003130627, US2003055374, US2002193756, US2002193755, US2002026212, US2001056266, US2001037079, US2001023334, EP3173121, EP2939703, EP2324880, EP2324879, EP2324878, EP2308547, EP2161013, EP1786334, EP1550479, EP1550479, EP1154814, EP0930082, EP0537892, AU659806, AU655611, AU2012211394,

Abstract:
Source: US5041098A Disclosed are implantable, vascular access ports and vascular access systems including such ports. These ports include a biocompatible housing having at least one internal open-faced chamber extending along a reference axis, and defined by a concave sidewall and a bottom wall. The concave sidewall is concave in the direction of the axis and forms a lateral sidewall for the chamber. The port further includes a septum of biocompatible, self-resealing, penetrable material affixed to the housing and spanning the periphery of the open face of the chamber. A cannula is attached at a first end to the housing and extends laterally from that end. Its second end is adapted to receive a catheter. The cannula further includes internal walls defining a channel extending from the first end, along a channel axis from a point on the lateral boundary of, and in communication with, the chamber to the second end.

PatBase - US5041092 C2



188) Family number: 8907047 (US5219101A)

Title: CONTAMINATION-RESISTANT DISPENSING AND METERING DROP FORMING **DEVICE**

Priority:
AU19900056141 19900530 CA19902017887 19900531 EP19910903999 19901130
CA19902097321 19901130 US19890360041 19890601 CA19912043521 19910530
WO1990US03056 19900531 US19900531243 19900531 US19920882755 19920511
US19910642158 19910117 WO1990US07029 19901130

Family:

Publication number	Publication date	Application number	Application date
AR245917 A1	19940330	AR19900317004	19900601
AT141240 E	19960815	AT19900903999T	19901130
AT99155 E	19940115	AT19900305954T	19900531
AU199056141 A1	19901206	AU19900056141	19900530
AU199173279 A1	19920625	AU19910073279	19901130
AU635029 B2	19930311	AU19900056141	19900530
AU662479 B2	19950907	AU19910073279	19901130
BRPI9002603 A	19910820	BR1990PI02603	19900601
BRPI9008050 A	19931103	BR1990PI08050	19901130
CA2017887 AA	19901201	CA19902017887	19900531
CA2043521 AA	19911201	CA19912043521	19910530
CA2097321 AA	19930528	CA19902097321	19901130
DE69005529 D1	19940210	DE19906005529	19900531
DE69005529 T2	19940519	DE19906005529T	19900531
DE69028121 D1	19960919	DE19906028121	19901130
DE69028121 T2	19970306	DE19906028121T	19901130
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DE69116434 T2	19960530	DE19916016434T	19910531
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DK0558479 T3	19970113	DK19900903999T	19901130
EP0401022 A1	19901205	EP19900305954	19900531
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EP0459498 A1	19911204	EP19910108891	19910531
EP0459498 B1	19960117	EP19910108891	19910531
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EP0558479 A4	19940105	EP19910903999	19901130
EP0558479 B1	19960814	EP19910903999	19901130
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ES2090311 T3	19961016	ES19910903999T	19901130
FI915607 A0	19911128	FI19910005607	19911128
FI92811 B	19940930	FI19910005607	19911128
FI92811 C	19950110	FI19910005607	19911128
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GB2234226 B2	19930106	GB19900012130	19900531
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GB9111770 A0	19910724	GB19910011770	19910531
GR3021343 T3	19970131	GR19960402716T	19961016
HU210750 B	19950728	HU19900005378	19900531
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IE65059 B	19951004	IE19900001957	19900531
IE901957 L	19901201	IE19900001957	19900531
IL94574 A0	19910310	IL19900094574	19900531
IL94574 A1	19960131	IL19900094574	19900531
JP1923556 C3	19950425	JP19900144289	19900601
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US5265770 A	19931130	US19920882755	19920511
WO9015015 A1	19901213	WO1990US03056	19900531
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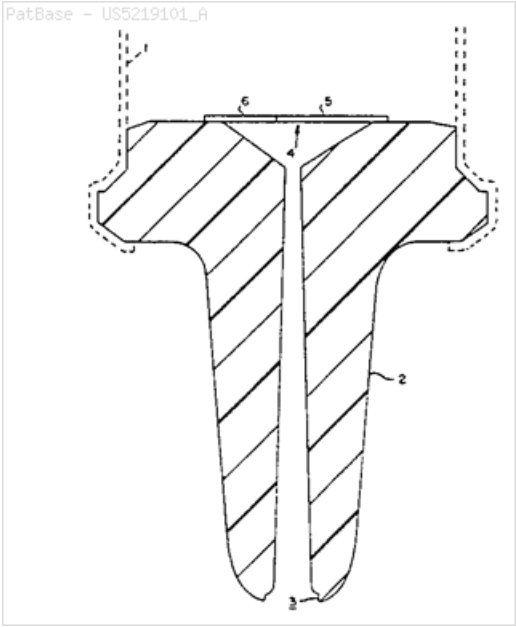
Probable Assignee: PALL CORP

Assignee(s):(std)**:** MARK AND CO INC ; MATKOVICH VLADO I ; PALL CORP ; MERCK AND CO INC ; MERCK AND CO ;

	BORMANN THOMAS J ; PALL CORP Y MERCK AND CO INC ; PALL CORP U S A MERCK AND CO INC
Assignee(s):	POLL KORPOREJSHN ; PALL U S A MERCK AND CO INC CORP ; PALL CORP GLEN COVE N Y US ; PALL CORP US ; PALL USA MERCK AND CO CORP ; PALL Y MERCK AND CO CORP ; PALL U S A MERCK AND CO CORP ; HENLEY MARTIN W ; MERK END KO ; MERK END KO INK ; MERCK AND CO INC RAHWAY N J US ; MERCK AND CO INC RAHWAY N J ; MERCK AND CO INC US ; MERCK SHARP AND DOHME CORP ; PALL CORP GLEN COVE N Y ; SCHLAUDECKER THOMAS E ; PALL Y MERCK AND CO INC CORP ; BORMANN THOMAS
Inventor(s):(std)**:**	VLADO I MATKOVICH ; TOOMASU JIEI BOOMAN ; TOOMASU II SHIYURAUDETSUKAA ; TOOMASU BOOMAN ; BORMANN THOMAS J ; TOMAS I SHLAUDEKKER ; TOMAS BORMANN ; THOMAS E SCHLAUDECKER ; THOMAS BORMANN ; SCHLAUCHDECKER THOMAS E ; SCHLAUCHDECKER THOMAS ; MATKOVICK VLADO I ; MATKOVICH VLADO ; MATKONVICH VLADO I ; MARTIN W HENLEY ; MARTIN U KHENLI ; MAATEIN DABURIYUU HENRII ; HENLEY MARTIN ; BURADO AI MATOKOBUITSUCHI ; SCHLAUDECKER THOMAS E ; MATKOVICH VLADO I ; HENLEY MARTIN W ; BORMANN THOMAS
Inventor(s):	BORMANN THOMAS US ; BORMANN THOMAS SEAFORD NY 11783 US ; BORMANN THOMAS SEAFORD NEW YORK 11783 US ; BORMANN THOMAS SEAFORD NEW YORK 11783 ; MARTIN UKHENLI ; SCHLAUCHDECKER THOMAS E HAMILTON SQUARE NJ ; THOMAS E SCHLAUCHDECKER ; THOMAS J BORMANN ; VLADO IMATKOVICH ; VLADO I MATKOVICK ; TOMAS ISHLAUDEKKER
Agent(s):	SHELSTON IP; SHELSTON IP PTY LTD; MARKS AND CLERK; AE MULFORD
Designated states:	AT AU BE BF BJ BR CA CF CG CH CM DE DK ES FI FR GA GB GR HU IT JP KP KR LI LU ML MR NL NO SE SN SU TD TG US
International class (IPC 8-9):	A61F9/00 A61J1/00 A61J1/05 A61J1/10 A61J1/14 A61M3/00 A61M35/00 B01J4/02 B01L3/00 B01L3/02 B65D47/06 B65D47/18 B65D51/16 B65D81/00 B65D83/00 B67D1/16 B67D7/76 (Advanced/Invention); A61J1/00 A61J1/05 A61J1/10 A61J1/14 (Advanced/Non-invention); A61F9/00 A61J1/00 A61J1/05 A61J1/10 A61J1/14 A61M3/00 A61M35/00 B01J4/02 B01L3/00 B01L3/02 B65D47/06 B65D51/16 B65D83/00 B67D7/76 (Core/Invention)
International class (IPC 1-7):	A61F9/00 A61J1/00 A61J1/05 A61J1/06 A61J1/10 A61J1/14 A61J1/22 A61J3/00 A61M3/00 A61M31/00 A61M35/00 B01D35/02 B01J4/02 B01L3/00 B65D47/18 B65D81/00 B67D5/58
CPC:	B01L3/0272 A61F9/0008 B65D47/18 A61J1/145 A61J1/1456 B65D51/1616 B65D47/06
European class:	A61F9/00B B01L3/02D12 B65D47/06 B65D47/18 B65D51/16C2 K61J1/14F2 K61J1/14F4
US class:	210/321.64 210/321.84 210/500.38 210/500.42 222/189 222/189.06 222/189.09 222/212 222/420 222/568 604/295 604/298
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Forward Citations:	WO9816438, WO9611855, WO9517152, WO9500407, WO9116868, WO05123528, WO05046541, WO05046541, WO04069678, WO04043315, WO03106041, WO0238464, WO0174672, USRE43886, USD709647, USD564092, USD541935, USD476735, US9592354, US9518899, US9446197, US9248076, US9016526, US8932543, US8807388, US8770448, US8752732, US8683995, US8608017, US8540112, US8377009, US8286826, US8146757, US8056766, US7993415, US7963089, US7950391, US7758553, US7717116, US7673653, US7669597, US7516765, US7503909, US7291570, US7232777, US7225949, US7168598, US6857542, US6821936, US6632681, US6626331, US6267270, US6117319, US6116468, US6073812, US6030632, US6000580, US5992701, US5914045, US5869073, US5849311, US5817325, US5588559, US5492253, US5490938, US5443723, US5431813, US5431314, US5431310, US5417349, US5411175, US5373972, US5373964, US5310094, US2012193376, US2011155770, US2010285711, US2009152302, US2008272082, US2008177246, US2007233021, US2007164051, US2007163664, US2007163599, US2007145060, US2007145058, US2007113841, US2007051362, US2006137763, US2005139611, US2004106341, US2004106340, US2004074925, US2003204916, US2003057235, US2003049396, RU2616290, KR100878215, JP5736165, JP2011143971, HR20030475, GB2244480, GB2244480, FR2868046, FR2862052, FR2816600, FR2761665, FR2678905, EP2573005, EP1682056, EP1339616, EP0881158, EP0631770, EP0606783, EP0558479, EP0459498, DE102008034831, DE102005056488, CZ296769,

Abstract:
Source: US5219101A A **device** for dispensing liquids in drop form of substantially uniform size is provided which includes a container having a dropper tip including a passageway for ingress of air to and egress of liquid from the **device**, the passageway communicating between the container and an orifice in the dropper tip; means for temporarily reducing the volume of the container; and, disposed within the dropper tip, across the passageway, a microporous composite membrane with pores of a size to resist passage of contaminants. The membrane has a liquophilic component which permits delivery of drops of a liquid to a desired location outside the container and a liquophobic component which is adapted to resist the passage of such liquid but to permit the passage therethrough of air. Both the liquophilic and liquophobic components of the membrane (which intersects the passageway) communicate with the passageway. The surface area and pore size of the liquophilic component is so selected as to meter liquid being dispensed in drop form and avoid a stream of liquid from emerging from the dropper tip during normal use.

PatBase - US5219101_A



189) Family number: 3317085 (US5000664A)

Title: **Apparatus** and method to test for valve leakage in a pump assembly

Priority: CA19902018296 19900605 US19890362888 19890607

Family:

Publication number	Publication date	Application number	Application date
AU199056026 A1	19901213	AU19900056026	19900528
AU623782 B2	19920521	AU19900056026	19900528
CA2018296 AA	19901207	CA19902018296	19900605
EP0406562 A2	19910109	EP19900110105	19900528
EP0406562 A3	19910612	EP19900110105	19900528
JP3030776 A2	19910208	JP19900148423	19900606
US5000664 A	19910319	US19890362888	19890607

Probable Assignee: HOSPIRA INC

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

Assignee(s): ABBOTT LABORATORIES ; ABBOTT LABORATORIES ABBOTT PARK IL 60064 A IL CORP ; HOSPIRA INC ; JIMISON WALTER L ; LAWLESS MICHAEL W ; YUNG ANTHONY C ; PASTRONE GIOVANNI

Inventor(s):(std)**:** JIMISON WALTER L ; JIMISON WALTER LEE ; JIYOBANNI PASUTOROONE ; LAWLESS MICHAEL W ; LAWLESS MICHAEL WILLIAM ; MAIKERU UIRIAMU ROORESU ; ANSONII CHIYOKUUIN YUN ; PASTRONE GIOVANNI ; UORUTAA RII JIMISON ; YUNG ANTHONY C ; YUNG ANTHONY CHOK YIN

Inventor(s): WALTER LEE JIMISON ; ANTHONY CHOK YIN YUNG ; GIOVANNI PASTRONE ; MICHAEL WILLIAM LAWLESS

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; GOUDREAU GAGE DUBUC

Designated states: BE CH DE DK ES FR GB GR IT LI NL SE

International class (IPC 8-9): A61M1/10 A61M5/00 A61M5/168 F04B49/10 G01M3/02 (Advanced/Invention);
A61M1/10 A61M5/00 F04B49/10 (Advanced/Non-invention);
A61M1/10 A61M5/00 A61M5/168 F04B49/10 (Core/Invention)

International class (IPC 1-7): A61M1/10 A61M5/00 A61M5/142 F04B49/10 F04B51/00 G01M3/02 G01M3/26

CPC: A61M5/16831 A61M2205/15 A61M2205/702

European class: A61M5/168D K61M205/15 K61M205/70B

US class: 417/63 73/168

Classification Explorer

Cited documents: WO8705225 A2, US4840542 A, US4818186 A, US4758228 A, US4752289 A, US4747826 A, US4657490 A, US4602249 A, US4553958 A, US4549853 A, US4501531 A, US4479761 A, US4470758 A, US4460355 A, US4394862 A, US4341116 A, US4278085 A, US4244365 A, US4181017 A, US4155362 A, US2098677 A, EP0293592 A2, EP0248633 A2, EP0197705 A1,

Forward Citations: WO14158719, WO07076026, WO07076026, WO04035116, WO04035115, WO0029749, US9897082, US9833177, US9775939, US9771933, US9770554, US9697334, US9690905, US9677556, US9675745, US9675744, US9669160, US9623168, US9593678, US9582645, US9561323, US9555179, US9514283, US9504778, US9494151, US9494150, US9488167, US9474856, US9222472, US9119917, US9039395, US9008803, US8998836, US8961444, US8900174, US8882701, US8715235, US8657779, US8608699, US8529496, US8465446, US8403880, US8328758, US8206338, US8070709, US8007525, US7935079, US7909795, US7905853, US7857781, US7815595, US7789849, US7776006, US7575564, US7241115, US7153286, US7089783, US7083719, US7069183, US6929751, US6223130, US6082737, US5694808, US5658133, US5628908, US5575310, US5560247, US5533389, US5526844, US5474683, US5439355, US5438510, US5431626, US5421823, US5404748, US5357800, US5350357, US5349852, US5324422, US5112196, US2014276421, US2013294935, US2011166507, US2011163033, US2011144569, US2011137239, US2010262078, US2010087777, US2009112151, US2009012461, US2009012457, US2008046046, US2008033346, US2008015493, US2007213651, US2007149913, US2006253105, US2005229683, US2005222653, US2005173344, US2005147508, US2005126998, US2004226346, US2003220607, US2003220598, US2003217976, JP5643382, JP5511508, JP4691503, JP2015052321, JP2013173002, JP2012522583, JP2010207611, JP2007509712, JP2006152925, EP1556105, EP1556104, DE19934829, CN105628308,

Abstract:

Source: US5000664A **Apparatus** and method for determining leakage, particularly of valves, in a pumping cassette. A cassette (70) includes a primary valve (34) and a secondary valve (36), which may be selectively activated to control the source of **fluid** input to the cassette. The cassette also includes an inlet valve (48) and an outlet valve (56) disposed on each side of a pumping chamber (52). Downstream of the outlet valve is disposed a pressure sensor (60) which produces a signal indicative of the pressure of **fluid** within the cassette at that point. The cassette also includes an air-in-**line** sensor (40), disposed between a manifold **line** (38) that **connects** the primary and secondary valve in **fluid** communication with an air trap reservoir (44). Leakage in the inlet or outlet valves is detected by closing both valves, pressurizing **fluid** in the pumping chamber for a predetermined period of time, and then opening the outlet valve. If a pressure pulse having an amplitude less than a predetermined level is detected downstream of the outlet valve when it is opened, either the inlet or outlet valve has leaked. The primary and secondary valves are checked for leakage either by pressurizing **fluid** in the pumping chamber and checking for retrograde flow of air trapped in the air trap reservoir through the air-in-**line** sensor, or by pressurizing **fluid** trapped in the cassette, holding the pressure for a period of time before closing the inlet valve, and then opening the outlet valve to detect a pressure pulse propagating downstream of the outlet valve, using the pressure sensor. If a pressure pulse of less than the predetermined magnitude is detected, one of the primary or secondary outlet valves is leaking. Both tests also detect leakage of other portions of the pumping cassette.

PatBase - US5000664_A

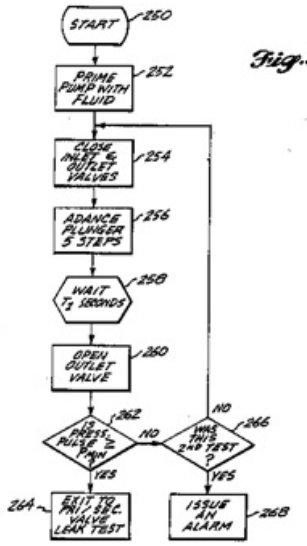


Fig. 9A.

190) Family number: 11921196 (US5132504A)

Title: METHOD AND **APPARATUS** FOR STERILIZING SEALED CONTAINERS UTILIZING MICROWAVE

Priority: CA19902018570 19900608 EP19900110670 19900606 JP19890147666 19890609 FI19930000341 19930127 FI19900002807 19900605

Family:

Publication number	Publication date	Application number	Application date
AT95429 E	19931015	AT19900110670T	19900606
AU199057023 A1	19901213	AU19900057023	19900608
AU620519 B2	19920220	AU19900057023	19900608
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CN1022290 C	19931006	CN19901004225	19900609
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Probable Assignee: EISAI R AND D MANAGEMENT CO LTD

Assignee(s):(std)**:** EISAI CO LTD

Assignee(s): EJSAJ KO ; EISAI R AND D MANAGEMENT CO LTD ; EISAI CO LTD JP ; EJSAJ KO LTD ; EISAI CO LTD TOKIO TOKYO JP ; IIJIMA KENICHI ; EEZAI KK ; EHJSAJ KO., LTD. ; EISAI CO ; EISAI CO JP

Inventor(s):(std)**:** LISHIMA KENICHI ; KENITI IIDZIMA ; KENICHI IIJIMA ; ITJIMA KENICHI ; ILJIMA KENICHI ; IIJIMA KENICHI

Inventor(s): KENITI IIDZIMA[JP] ; IIJIMA KENICHI ISEZAKI SHI GUNMA KEN JP ; KENICHI LISHIMA ; IIJIMA KENICHI JP ; ILJIMA KENICHI JP ; ITJIMA KENICHI JP

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; BORDEN LADNER GERVAIS LLP

Designated states: AT BE CH DE DK ES FR GB GR IT LI LU NL SE

International class (IPC 8-9): A61L2/00 A61L2/12 A61L2/24 B65B55/16 (Advanced/Invention);
A61L2/00 A61L2/12 (Advanced/Non-invention);
A61L2/00 A61L2/08 B65B55/02 (Core/Invention)

International class (IPC 1-7): A61J1/00 A61L2/00 A61L2/08 A61L2/12 A61L2/24 B65B55/00 B65B55/02 B65B55/16 H05B6/78 H05B6/80

CPC: A61L2/12 B65B55/16

European class: A61L2/12 B65B55/16

US class: 219/10.55A 219/10.55F 219/10.55M 219/10.55R 219/680 219/700 219/762 422/21

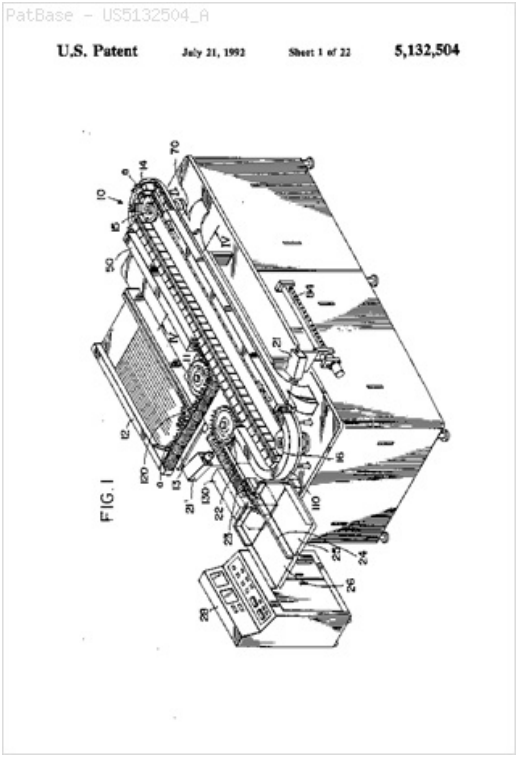
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Forward Citations: WO10056371, WO06111681, WO06111681, US8878109, US8795599, US8586899, US8575525, US6138868, US6111238, US5839258, US5609819, US5279788, US2015044091, US2010126988, US2010072194, US2009283517, RU2616491, FR2884426, EP0692261, EP0496633, DE4314932, CN104528056,

Abstract:
Source: US5132504A An irradiator furnace is **connected** to a square waveguide for propagation of microwave and provided through a top wall with a slot. A conveyor bucket conveys sealed containers along the slot with lower portions of the sealed containers being inserted through the slot into the irradiator furnace. The irradiator furnace includes therein a rail which extends from the lowest level at an inlet of the irradiator furnace to the highest level at an outlet of the irradiator furnace so as to support the sealed containers. The hot air furnace is provided above the irradiator furnace. A narrow passage extending from the outlet of the irradiator furnace is directly followed by a thermostatic station utilizing an IR heater. So the sealed containers are sterilized. To feed the sealed containers to the conveyor bucket of the sterilizer, a sealed container feeding hopper comprising a conveyor belt, a screw and a feeding wheel is provided. A sensor is provided to detect whether individual turns of a screw groove are properly loaded with the sealed containers or not and auxiliary feeding guides operatively associated with the sensor to feed

the sealed containers to the screw.



191) Family number: 44595224 (US5019047A)

Title: FLUID DELIVERY APPARATUS

Priority:

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Family:

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Probable Assignee: PESCADERO BEACH HOLDINGS CORP

Assignee(s):(std)**:** SCIENCE INC ; SAJENS INKORPOREJTED ; KRIESEL MARSHALL

Assignee(s): KELBY DAVID E AND VIRGINIA H KELBY JOINT TENANTS A ; GROSSMAN INVESTMENTS D B A N BUD GROSSMAN MANAGING GENERAL PARTNER ; KELBY DAVID E AND VIRGINIA H KELBY JOINT TENANTS AS ; KRIESEL MATTHEW ; SCIENCE INC BLOOMINGTON MINN US ; SCIENCE INC A CORP OF DE ; SCIENCE INC A DELAWARE CORP ; SIT INVESTMENT ASSOCIATES INC BY EUGENE C SIT CHAI ; OKABENA PARTNERSHIP V 8 BRUCE C LUECK PRESIDENT ; SIT INVESTMENT ASSOCIATES INC EUGENE C SIT ; SCIENCE INC BLOOMINGTON ; OKABENA PARTNERSHIP V 8 BY OKABENA INVESTMENT SERVICES INC MANAGER ; SIT INVESTMENT ASSOCIATES INC BY EUGENE C SIT CHAIRMAN ; POCKET A NOMINE PARTNERSHIP C O MR RANDALL J SUKOVICH BURR OAK GROUP INC ; REVOCABLE TRUST OF BARBARA C GAGE C O MR JOHN K FLOTTMEIER TONKAWA ; REVOCABLE TRUST OF EDWIN C GAGE C O MR JOHN K FLOTTMEIER TONKAWA ; SCIENCE INCUS ; OKABENA PARTNERSHIP V 8 BY OKABENA INVESTMENT SERV ; PESCADERO BEACH HOLDINGS CORP ; SIT INVESTMENT ASSOCIATES INC ; WALLIN R WALLIN D B A WALLIN FAMILY FOUNDATION ; WALLIN WALLIN R D B A WALLIN FAMILY FOUNDATION ; WILLIAM F FARLEY D B A LIVINGSTON CAPITAL ; MCGLYNN BURTON J ; OKABENA PARTNERSHIP V ; POCKET A NOMINE PARTNERSHIP C O MR RANDALL J SUKOV ; REVOCABLE TRUST OF BARBARA C GAGE C O MR JOHN K FL ; REVOCABLE TRUST OF EDWIN C GAGE C O MR JOHN K FLOT ; TORGERSON PAUL M ; WALLIN FAMILY FOUNDATION WINSTON R WALLIN ; ARLEEN M CARLSON ; ARLEEN M CARLSON 2000 BCG CLAT C O MR JOHN K FLOTT ; BARBER STEVE C ; ARLEEN M CARLSON 2000 MCN CLAT C O MR JOHN K FLOTT ; ARLEEN M CARLSON 2000 BCG CLAT C O MR JOHN K FLOTTMEIER TONKAWA ; ARLEEN M CARLSON 2000 MCN CLAT C O MR JOHN K FLOTTMEIER TONKAWA ; BEDNARCZYK W WILLIAM ; BRATTAIN DONALD ; DAVID E KELBY AND VIRGINIA H KELBY JOINT TENANT AS ; EVERS MICHAEL J ; FARLEY WILLIAM F ; DAVID E KELBY AND VIRGINIA H KELBY JOINT TENANTS A ; DAVID E KELBY AND VIRGINIA H KELBY JOINT TENANTS AS ; DAVID E KELBY AND VIRGINIA H KELBY AS JOINT TENANT ; KAZEMZADEH FARHAD ; FENG WILLIAM W ; KRIESEL MARSHALL S ; KLUCK WILLIAM J ; KRIESEL MATTHEW B ; FARLEY WILLIAM F D B A LIVINGSTON CAPITAL ; GROSSMAN INVESTMENTS D B A N BUD GROSSMAN MANAGING ; HODDER WILLIAM A ; KELBY DAVID E AND VIRGINIA H KELBY JOINT TENANT AS ; GROSSMAN INVESTMENTS ATTN LARRY WALLER ; LUECK BRUCE C

Inventor(s):(std)**:** KAZEMZADEH FARHAD ; FENG WILLIAM W ; KLUCK WILLIAM J ; FENG WILLIAM ; GARRISON JAMES M ; KRIESEL MARSHAL S ; KAZEMSADEH FARHAD ; KAMEMZADEH FARHAD ; KRIESEL MARSHALL S ; KRIESEL MATTHEW B ; KRIESEL MATTHEW ; KRIESEL MARSHALL ; MARSHALL S KRAJSEL ; MARSHALL S KRISEL ; MARSHALL S KRIESEL ; ARNOLD STEVEN M ; BARBER STEVE C ; BARBER STEVEN C

Inventor(s): FARHAD KAZEMSADEH ; FARHAD KAMEMZADEH ; FARHAD KAZEMZADEH ; MATTHEW KRIESEL ; MARSHALL S.KRAJSEL ; MARSHALL S.KRIESEL ; MARSHALL S.KRISEL ; WILLIAM W FENG ; WILLIAM J KLUCK ; STEVE C BARBER ; KRIESEL MARSHALL S BLOOMINGTON MN 55438 US ; MARSHALL KRIESEL ; MARSHAL S KRIESEL

Agent(s): BANKI HADDOCK FIORA; PIZZEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; BANKI HADDOCK FIORA LAWYERS; GOUDREAU GAGE DUBUC

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

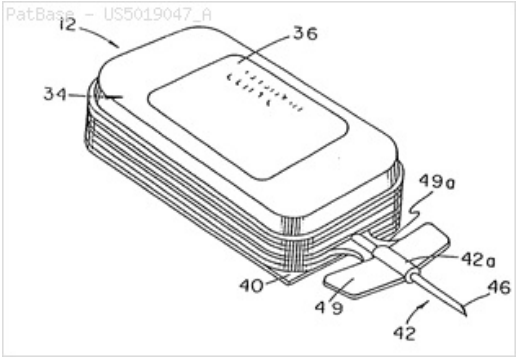
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Abstract:
Source: US5019047A An **apparatus** for accurately infusing medicinal agents into an ambulatory patient at specific rates over extended periods of time. The **apparatus** is of a compact, low profile, laminate construction and includes an elastic distendable membrane, which, in cooperation with a thin planar base, defines a **fluid** chamber having a **fluid** outlet. Disposed within the **fluid** chamber is a thin **fluid** permeable member which precisely controls the rate of **fluid** flow through the **fluid** outlet.

PatBase - US5019047_A



192) Family number: 42816156 (US2002022270A)

Title: METHODS, COMPOSITIONS AND **DEVICES** FOR GROWING HEMATOPOIETICS CELLS

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

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US class: 424/93.1 424/93.3 424/93.7 424/937 435/172.1 435/172.3 435/204.1 435/240.1 435/240.2 435/240.21 435/240.23 435/284.1 435/289.1 435/289.100S 435/29.2 435/293.1 435/293.2 435/294.1 435/294.100S 435/297.1 435/297.2 435/308.1 435/347 435/366 435/366P 435/37 435/370 435/370S 435/372 435/372P 435/372S 435/373 435/375 435/377 435/378 435/383 435/384 435/384S 435/385 435/386 435/395 435/401 435/402 435/440 435/456

Classification Explorer

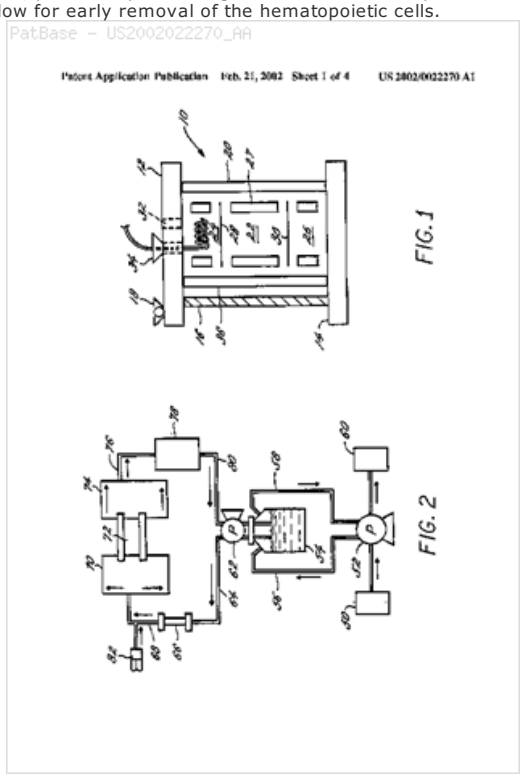
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Abstract:
Source: US2002022270A Methods, compositions and **devices** are provided for the growth of hematopoietic cells in culture. Bioreactors are provided in which diverse cell types are simultaneously cultured in the presence of appropriate levels of nutrients and growth factors substantially continuously maintained in the bioreactor while removing undesirable metabolic products. This simultaneous culture of multiple cell types is required for the successful reconstruction of hematopoietic tissue ex vivo. At least one growth factor is provided through excretion by transfected stromal cells, particularly heterologous cells. Means are provided for maintaining the stromal cells and hematopoietic cells separately, to allow for early removal of the hematopoietic cells.



193) Family number: 30114132 (US2002192223A)

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Title: NOVEL ANTIBODY CONJUGATES REACTIVE WITH HUMAN CARCINOMAS

Priority:

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Family:

Publication number	Publication date	Application number	Application date
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ZA9005131 A	19910424	ZA19900005131	19900629

Probable Assignee: BRISTOL MYERS SQUIBB CO

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Assignee(s): HELLSTROM INGEGERD ; ONCOGEN PARTNERSHIP LTD ; ONCOGEN LTD PARTNERSHIP SEATTLE WASH US ; HELLSTROM KARL E ; ONCOGEN PARTNERSHIP US LTD ; BRISTOL MYERS SQUIBB CO ; BRISTOL MYERS SQUIBB COMPANY ; BRUCE KIM F ; ONCOGEN LTD PARTNERSHIP SEATTLE WASH

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Inventor(s): BRUCE KF ; BRUCE KIM F US ; HELLSTROM KARL E SE ; HELLSTROM INGEGARD US ; BRUCE KIM FOLGER SEATTLE WA 98199 US ; HELLSTROM INGEGERD SEATTLE WA 98105 US ; HELLSTROM KARK ERIK SEATTLE WA 98105 US ; SCHREIBER GJ ; HELLSTROM KARL ; HELLSTROM EK

Agent(s): PHILLIPS ORMONDE FITZPATRICK; GOWLING LAFLEUR HENDERSON LLP; REINHOLD COHN AND PARTNERS; JONES DAY

Designated states:	AT AU BE BF BJ CF CG CH CM DE DK ES FI FR GA GB HU IT JP KR LI LU ML MR NL NO SE SN SU TD TG
International class (IPC 8-9):	A61K38/00 A61K39/21 A61K39/395 A61K39/44 A61K45/00 A61K47/48 A61K49/00 A61K51/10 A61P35/00 C07K1/22 C07K14/415 C07K14/52 C07K16/00 C07K16/18 C07K16/30 C07K16/42 C07K16/46 C07K19/00 C12N15/09 C12N15/10 C12N5/10 C12N5/12 C12N5/18 C12N5/20 C12N9/96 C12P21/08 G01N33/53 G01N33/531 G01N33/532 G01N33/563 G01N33/574 G01N33/577 (Advanced/Invention); A61K38/00 A61K39/395 A61K45/00 C12R1/91 (Advanced/Non-invention); A61K39/395 A61K47/48 A61K49/00 A61K51/02 A61P35/00 C07K14/415 C07K16/18 C12N15/10 C12N5/12 C12N5/20 C12N9/96 C12P21/08 G01N33/531 G01N33/532 G01N33/574 G01N33/577 (Core/Invention); A61K38/00 (Core/Non-invention); A61K C07K C12N C12Q G01N (Subclass/Invention)
International class (IPC 1-7):	A61K37/02 A61K37/24 A61K37/48 A61K39/00 A61K39/00 A61K39/395 A61K39/44 A61K39/595 A61K43/00 A61K45/00 A61K45/05 A61K47/48 A61K49/00 A61K51/00 A61K51/00 C07K15/00 C07K15/06 C07K15/12 C07K15/28 C07K16/00 C07K16/00 C07K16/18 C07K16/30 C07K16/42 C07K16/46 C07K19/00 C12N15/00 C12N15/06 C12N15/07 C12N15/08 C12N15/12 C12N15/13 C12N5/00 C12N5/06 C12N5/12 C12N5/18 C12N5/20 C12N5/28 C12N9/00 C12N9/96 C12P21/00 C12P21/08 C12Q G01N33/53 G01N33/531 G01N33/532 G01N33/535 G01N33/563 G01N33/574 G01N33/577
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Classification Explorer

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Forward Citations:	WO9906834, WO9906834, WO9835042, WO12027440, WO11089004, WO11004899, WO07122511, WO07122511, WO07095746, WO07014460, WO07014459, WO07014458, WO07014457, WO07014456, WO05113000, WO05113000, WO05094364, WO05094364, WO03074568, WO03055527, WO03055527, WO0249672, WO0249672, USRE43586, US9889206, US9839678, US9801923, US9795673, US9775785, US9765155, US9751934, US9713646, US9701754, US9695248, US9675671, US9637794, US9616015, US9593167, US9562102, US9527919, US9512232, US9505802, US9499609, US9464116, US9453260, US9452219, US9447193, US9422358, US9420770, US9365634, US9364521, US9309323, US9283276, US9267948, US9260524, US9260517, US9234041, US9221867, US9216228, US9212228, US9187548, US9173891, US9168286, US9161988, US9101609, US9090693, US9085630, US9072798, US9029516, US9023605, US9023356, US9011880, US8969310, US8951737, US8940871, US8940298, US8921314, US8889847, US8853366, US8846325, US8835167, US8828949, US8828925, US8808695, US8802395, US8772459, US8759006, 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Abstract:
Source: US2002192223A The present invention relates to novel antibodies, antibody fragments and antibody conjugates and single-chain immunotoxins reactive with human carcinoma cells. More particularly, the antibodies, conjugates and single-chain immunotoxins of the invention include: a murine monoclonal antibody, BR96; a human/murine chimeric antibody, ChiBR96; a F(ab')2 fragment of BR96; ChiBR96-PE, ChiBR96-LysPE40, ChiBR96 F(ab')2-LysPE40 and ChiBR96 Fab'-LysPE40 conjugates and recombinant BR96 sFv-PE40 immunotoxin. These molecules are reactive with a cell membrane antigen on the surface of human carcinomas. The BR96 antibody and its functional equivalents, displays a high degree of selectivity for carcinoma cells and possess the ability to mediate antibody-dependent cellular cytotoxicity and complement-dependent cytotoxicity activity. In addition, the antibodies of the invention internalize within the carcinoma cells to which they bind and are therefore particularly useful for therapeutic applications, for example, as the antibody component of antibody-drug or antibody-toxin conjugates. The antibodies also have a unique feature in that they are cytotoxic when used in the unmodified form, at specified concentrations.

PatBase - US2002192223_AA

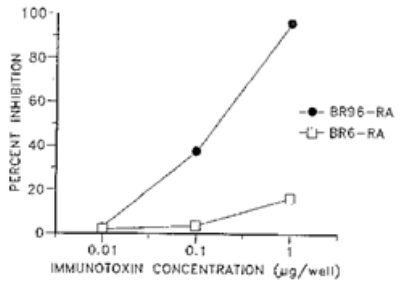


FIG. 1

194) Family number: 30889395 (EP0405907A1)

Title: Intravascular infusion **apparatus**.

Priority: GB19890015066 19890630 GB19890027917 19891211 GB19900003163 19900213 GB19900014171 19900626

Family:

Publication number	Publication date	Application number	Application date
EP0405907 A1	19910102	EP19900306964	19900626
GB2233563 A1	19910116	GB19900014171	19900626
GB8915066 A0	19890823	GB19890015066	19890630
GB8917125 A0	19890913	GB19890017125	19890727
GB8921640 A0	19891108	GB19890021640	19890926
GB8927917 A0	19900214	GB19890027917	19891211
GB8928335 A0	19900221	GB19890028335	19891215
GB9003163 A0	19900411	GB19900003163	19900213
GB9014171 A0	19900815	GB19900014171	19900626
JP3136669 A2	19910611	JP19900174295	19900630

Probable Assignee: AINSWORTH Q P

Assignee(s):(std)**:** AINSWORTH Q P ; AINSWORTH QUENTIN PAUL ; KUENCHIN POORU EINZUWAASU

Assignee(s): QUENTIN PAUL AINSWORTH ; AINSWORTH QUENTIN P

Inventor(s):(std)**:** AINSWORTH QUENTIN PAUL ; KUENCHIN POORU EINZUWAASU

Inventor(s): QUENTIN PAUL AINSWORTH

Designated states: AT BE CH DE DK ES FR GB GR IT LI LU NL SE

International class (IPC 8-9): A61M25/00 A61M39/00 A61M39/02 A61M39/10 A61M5/158 (Advanced/Invention); A61M25/00 A61M39/00 A61M39/02 A61M5/14 (Core/Invention)

International class (IPC 1-7): A61M25/00 A61M39/00 A61M39/02 A61M5/14

CPC: A61M5/1582 A61M39/10 A61M39/105

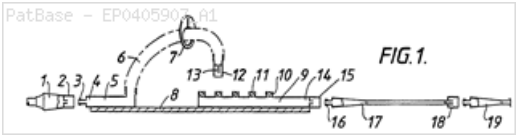
European class: A61M39/10 A61M39/10M A61M5/158B

Classification Explorer

Cited documents: WO8803815 A1, US4795429 A, US4257416 A, US2954028 A, GB2020554 A1,

Forward Citations: WO03080156, US9227046, US8715248, US8540944, JP2016093532, JP2009536564, JP2009536563, JP2009536562, GB2388036,

Abstract:
Source: EP0405907A1 The invention provides **apparatus** for intravascular infusion comprising an assembly of a plurality of hollow input **connection** units (5), and at least one hollow output **connection** unit (9), the input units (5) comprising hollow members each having an entry (4) extending from infusion tubing (1) or a similar input **line**, and leading via a flexible cross-connector tube unit (6) terminating in an output end carrying a **coupling** element (12), the at least one output unit (9) comprising a hollow member having at least one inlet port (10), such inlet port (10) being provided with **coupling** elements for **connection** to the **coupling** elements (12) at the outlet ends of the cross-connector units (6) and the or at least one output unit having (9) an outlet port (14) provided with **coupling** elements (15) for **connection** to a cannula, or similar output **line** (17) whereby the input units (5) may be **connected** by means of their cross-connector units (6) to the at least one inlet port (10) of the at least one output unit (9).



195) Family number: 3342186 (US5308326A)

Title: Balloon tamponade **devices** and methods for their placement

Priority: AU19900060544 19900628 US19890372875 19890628 US19890372875 19890628 US19890372875 19890628 US19930101910 19930804 US19910781224 19911230 US19940227064 19940413 WO1990US03684 19900628

Family:

Publication number	Publication date	Application number	Application date
AT129875 E	19951115	AT19900911052T	19900628
AU199060544 A1	19910206	AU19900060544	19900628
AU199352073 A1	19940203	AU19930052073	19931130
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US5709657 A	19980120	US19930101910	19930804
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Probable Assignee: ZKZ SCIENCE CORP

Assignee(s):(std)**:** ZIMMON DAVID S ; ZIMMON SCIENCE CORP

Assignee(s): ZKZ SCIENCE CORP ; ZIMMON DAVID S PORT WASHINGTON N Y US ; ZIMMON SCIENCE COPRORATION ; DAVID S ZIMMON ; JIMON DEEUITSUDO ESU

Inventor(s):(std)**:** ZIMMON DAVID S

Inventor(s): JIMON DEEUITSUDO ESU ; DAVID S ZIMMON

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SMART AND BIGGAR

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

International class (IPC 8-9): A61B17/12 A61B5/0215 A61B5/03 A61F2/82 A61M25/00 A61M29/00 (Advanced/Invention); A61B17/12 A61F2/82 A61M25/00 (Advanced/Non-invention)

International class (IPC 1-7): A61B17/12 A61B5/0215 A61M25/00 A61M29/00 A61M29/02

CPC: A61B5/02152 A61B5/036 A61B5/4233 A61B17/12099 A61B17/12136 A61M2210/105 A61M2210/1057

European class: A61B17/12P5 A61B17/12P7B A61B5/0215B A61B5/03H A61B5/42K4 K61M210/10H4 K61M210/10H6A

US class: 128/673 600/486 604/101.05 604/103.1 604/907 604/96 606/192

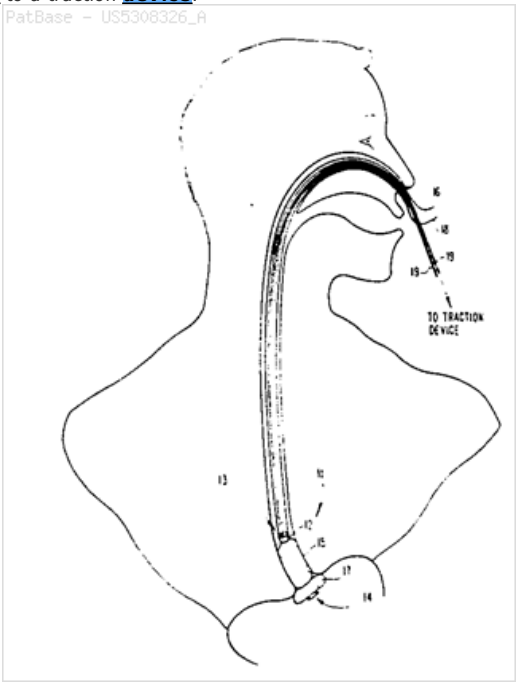
Classification Explorer

Cited documents: WO9014859 A1, WO9014858 A1, WO8900407 A1, US5330528 A, US5247938 A, US5188596 A, US5181517 A, US5067497 A, US5007898 A, US4981470 A, US4832691 A, US4795430 A, US4752286 A, US4735194 A, US4729384 A, US4710181 A, US4586505 A, US4522205 A, US4512338 A, US4501264 A, US4495948 A, US4485805 A, US4464175 A, US4367747 A, US4230108 A, US4214593 A, US4204525 A, US3734100 A, US3610247 A, US3411506 A, US3154077 A, US3055371 A, US3046988 A, US3045677 A, US2849002 A, US2621651 A, US2499045 A, US2493326 A, DE3640034 A1, AU7704887 A1,

Forward Citations: WO9857586, WO9718008, WO9402072, WO9222252, WO11014530, WO11014530, WO09067544, WO08100433, WO08100433, WO06122348, WO04064685, WO0172221, WO0170297, US9895248, US9888927, US9872786, US9861793, US9844453, US9827128, US9826999, US9820688, US9788984, US9750401, US9687334, US9687191, US9662239, US9649477, US9636258, US9636114, US9629684, US9629656, US9615775, US9610428, US9603506, US9585667, US9572480, US9554691, US9545249, US9539132, US9532784, US9526648, US9468550, US9468362, US9463068, US9457175, US9456825, US9451956, US9445791, US9433437, US9399121, US9375216, US9370649, US9358144, US9351862, US9351750, US9314361, US9308361, US9265407, US9254214, US9248038, US9241834, US9220879, US9198736, US9180036, US9180035, US9179823, US9167961, US9155492, US9138340, US9107727, US9107574, US9101384, US9089258, US9084876, US9072626, US9072583, US9055994, US9055965, US9055949, US9055942, US9050440, US9039680, US9039657, US9011477, US8992561, US8992457, US8979888, US8968269, US8961539, US8961495, US8961398, US8956637, US8951225, US8945167, US8945088, US8932276, US8911393, US8905922, US8894614, US8892182, US8870893, US8864787, US8864008, US8858586, US8852143, US8845753, US8845674, US8828041, US8784500, US8784354, US8777926, US8764786, US8764729, US8764726, US8764709, US8758385, US8747421, US8747389, US8740929, US8740927, US8721591, US8715169, US8702626, US8696645, US8647358, US8623065, US8568488, US8485199, US8469977, US8465508, US8439825, US8439687, US8435290, US8425457, US8414473, US8388642, US8372158, US8337566, US8323328, US8317816, US8292911, US8241202, US8206456, US8202226, US8190389, US8182432, US8177707, US8172828, US8162969, US8146400, US8142422, US8137375, US8123722, US8118757, US8114113, US8114062, US8109895, US8100933, US8100932, US8090433, US8088101, US8080000, US8029455, US8020741, US7981162, US7967834, US7934631, US7922062, US7913892, US7909223, US7909222, US7909219, US7892292, US7862575, US7833280, US7803195, US7799048, US7771347, US7721932, US7708181, US7704203, US7682380, US7628821, US7354454, US7146984, US7121283, US7111627, US7097665, US7018392, US6773452, US6638273, US6613072, US6579301, US6575896, US6562274, US6551350, US6520986, US6517570, US6468262, US6468227, US6454790, US6413270, US6361637, US6352561, US6352553, US6331188, US6315733, US6238335, US6203520, US6197430, US6033397, US5947926, US5906587, US5785684, US5707355, US5628784, US5540715, US5413571, US2014243950, US2014228714, US2013012863, US2011201984, US2011172491, US2011153030, US2011066142, US2011009980, US2010324534, US2010298631, US2010276469, US2010268350, US2010249825, US2010241146, US2010228272, US2010174138, US2010145434, US2010116867, US2010100117, US2010016988, US2009299487, US2009270889, US2009236400, US2009236397, US2009236396, US2009236394, US2009236392, US2009236390, US2009236389, US2009203995, US2009171383, US2009162643, US2009131752, US2009125040, US2009030284, US2009024143, US2008294179, US2008275299, US2008269797,

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Abstract:
Source: US5308326A PCT No. PCT/US90/03684 Sec. 371 Date Dec. 30, 1991 Sec. 102(e) Date Dec. 30, 1991 PCT Filed Jun. 28, 1990 PCT Pub. No. WO91/00752 PCT Pub. Date Jan. 24, 1991.Balloon tamponade **devices** for treating bleeding sites within the upper digestive tract (e.g. esophageal or upper gastric bleeding sites, or duodenal, pyloric or distal gastric bleeding sites) comprise a tube having proximal and distal open ends and at least one inflatable balloon mounted over the tube. Preferably, two balloons are mounted over the tube, and inflation lumens are provided for each. In a **device** for treating esophageal or upper gastric bleeding sites, the balloons are an esophageal balloon and a gastric balloon. In a **device** for treating duodenal, pyloric or distal gastric bleeding sites, the balloons are a duodenal balloon and a gastric balloon. A bridle is attached to the tube, and is adapted to extend up the esophagus to allow the **device** to be secured in place having the proximal open end of the tube positioned within the digestive tract to allow for normal feeding and swallowing functions. A method for placing a balloon tamponade **device** as generally described above is also described. The **device** is backloaded onto an endoscope by passing the endoscope through the open ends of the tube. The endoscope is then passed through the mouth and down the esophagus and used to examine the esophagus and/or other portions of the digestive tract to determine whether or not treatment is required. If treatment is required, the **device** is advanced along the endoscope and down the esophagus, and the balloon(s) of the **device** is (are) positioned and inflated to treat the bleeding sites. The endoscope is used to check positioning and then withdrawn. Thereafter, the bridal can be positioned through the nose and **connected** to a traction **device**.



196) Family number: 24045574 (US4988342A)

Title: Improved **fluid** recovery system

Priority: US19870020449 19870302 US19880255764 19881011 US19910755032 19910904 US19900556022 19900720 US19890385823 19890726 US19910647583 19910128 US19920817594 19920107 US19920817582 19920107 US19930097986 19930726 US19910770614 19911003

Family:

Publication number	Publication date	Application number	Application date
US4988342 A	19910129	US19880255764	19881011
US5114416 A	19920519	US19900556022	19900720
US5141504 A	19920825	US19890385823	19890726
US5154712 A	19921013	US19910647583	19910128
US5286262 A	19940215	US19910770614	19911003
US5380314 A	19950110	US19910755032	19910904
US5397299 A	19950314	US19920817594	19920107
US5401262 A	19950328	US19920817582	19920107
USRE35225 E	19960430	US19930097986	19930726

Probable Assignee: ATRIUM MEDICAL CORP

Assignee(s):(std)**:** ATRIUM MEDICAL CORP

Assignee(s): RBS CITIZEN NATIONAL ASSOCIATION ; AMOSKEAG BANK ; ATRIUM MEDICAL 17 CLINTON DRIVE HOLLIS NH 03049 A ; ATRIUM MEDICAL A CORP OF DE CORP ; ATRIUM MEDICAL A CORP OF DELAWARE CORP ; ATRIUM MEDICAL A OF DE CORP

Inventor(s):(std)**:** VAIL STEVE ; KARWOSKI THEODORE ; HERWECK STEVE A ; CROSS DAVID ; KAROWSKI THEODORE

International class (IPC 8-9): A61M1/00 (Advanced/Invention); A61M1/00 (Core/Invention)

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

CPC: A61M1/0031 A61M1/0027 A61M1/0001 A61M1/0015 A61M1/0056 A61M1/0013 A61M2205/3348 A61M2205/59 A61M2209/082

European class: A61M1/00A A61M1/00A6 K61M1/00A7 K61M1/00H14 K61M1/00H2 K61M205/33P8 K61M205/59

US class: 604/317 604/318 604/319 604/320 604/321 604/4 604/4.01 604/403 604/406 604/6.1 604/6.15

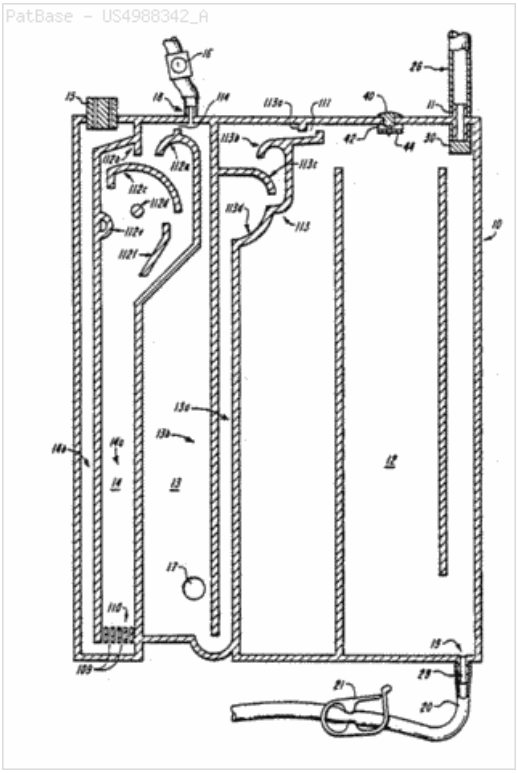
Classification Explorer

Cited documents: USRE29877 E, US5133703 A, US5127900 A, US5087250 A, US5039430 A, US5026358 A, US5024613 A, US5019060 A, US5011470 A, US4988342 A, US4988242 A, US4981474 A, US4955874 A, US4955873 A, US4911697 A, US4909780 A, US4857042 A, US4846800 A, US4838872 A, US4828552 A, US4822346 A, US4784642 A, US4781707 A, US4767417 A, US4747843 A, US4738672 A, US4698060 A, US4685908 A, US4664652 A, US4660354 A, US4655740 A, US4631050 A, US4605400 A, US4601715 A, US4559035 A, US4544370 A, US4540413 A, US4533353 A, US4529402 A, US4519796 A, US4465483 A, US4460354 A, US4445884 A, US4444548 A, US4443220 A, US4439190 A, US4439189 A, US4439188 A, US4430085 A, US4429693 A, US4425125 A, US4424053 A, US4402687 A, US4372336 A, US4346703 A, US4312351 A, US4141361 A, US4129129 A, US4112948 A, US4105031 A, US4047526 A, US4033345 A, US4018224 A, US4015603 A, US4006745 A, US3998227 A, US3993067 A, US3866608 A, US3861390 A, US3853128 A, US3830238 A, US3809085 A, US3757783 A, US3750692 A, US3683913 A, US3680560 A, US3559647 A, US3552395 A, US3545440 A, US3363627 A, US3363626 A, US3115138 A, US3100490 A, US2886035 A, GB2141933 A1, EP0112641 A1, EP0096579 A2, DE2351709 A1, DE2148331 A1,

Forward Citations: WO9932170, WO9906081, WO9830256, WO9830256, WO9714451, WO9640311, WO16126555, WO15164275, WO15113949, WO12124962, WO12124962, WO12040528, WO11143574, WO11119188, WO10016977, WO10016977, WO08091606, WO07109413, WO0053237, WO0030699, WO0021474, WO0021474, USD638028, USD430286, USD426881, US9814807, US9750875, US9622914, US9622752, US9555186, US9545462, US9500770, US9498573, US9468423, US9381300, US9375521, US9326873, US9320849, US9320668, US9314599, US9308320, US9216249, US9216242, US9211377, US9198669, US9144204, US8992493, US8986336, US8986253, US8974527, US8974484, US8926647, US8926561, US8915879, US8905972, US8882678, US8868434, US8834452, US8814840, US8808260, US8795241, US8777901, US8758323, US8747342, US8733165, US8679081, US8678792, US8650937, US8647392, US8595021, US8571708, US8568289, US8560460, US8518053, US8506577, US8491602, US8475389, US8474449, US8464708, US8454708, US8453638, US8453637, US8448824, US8430849, US8430094, US8414519, US8408421, US8365722, US8355994, US8348906, US8347881, US8347880, US8336540, US8323230, US8298184, US8296243, US8287495, US8252003, US8251952, US8231581, US8220460, US8216198, US8204620, US8195328, US8177805, US8163034, US8162915, US8136230, US8104474, US8100874, US8079368, US8062315, US8056582, US8043301, US8029492, US8021385, US8021320, US7942931, US7931641, US7927324, US7915005, US7909803, US7896008, US7828789, US7828769, US7824366, US7811274, US7798974, US7789083, US7753052, US7726305, US7686801, US7686013, US7682332, US7674248, US7664656, US7660724, US7620559, US7617113, US7594901, US7585292, US7565299, US7562025, US7533667, US7533029, US7533028, US7517387, US7481219, US7479130, US7426929, US7406963, US7398782, US7377278, US7357142, US7244236, US7214216, US7207946, US7195017, US7115115, US6976977, US6972000, US6902550, US6886558, US6749592, US6672477, US6663586, US6632214, US6632203, US6626877, US6623463, US6599271, US6558341, US6554804, US6537495, US6514232, US6494869, US6478789, US6428518, US6409696, US6395205, US6391009, US6371947, US6368311, US6368310, US6358232, US6358218, US6346096, US6342048, US6328167, US6325422, US6315751, US6306113, US6280429, US6250482, US6244311, US6224583, US6217544, US6210383, US6099493, US6039724, US6017493, US5989234, US5931822, US5931821, US5925025, US5885240, US5865408, US5807359, US5807358, US5800721, US5792126, US5776118, US5769087, US5743894, US5741238, US5725516, US5722964, US5628726, US5624417, US5607411, US5569225, US5542913, US5512042, US5496299, US5470324, US5399156, US5397299, US5380314, US5286262, US5279601, US5254080, US5242434, US5154712, US2015174305, US2015025500, US2014352699, US2013144235, US2013066285, US2011238227, US2011238022, US2011224836, US2011178425, US2011143380, US2011118669, US2011112493, US2010292627, US2010286544, US2010217233, US2010209263, US2010204707, US2010191199, US2010179493, US2010170507, US2010147295, US2010147294, US2010145288, US2010137743, US2010129420, US2010017031, US2009292263, US2009272677, US2009263829, US2009209971, US2009209936, US2009209924, US2009209909, US2009209856, US2009205665, US2009205650, US2009205649, US2009205648, US2009205646, US2009205645, US2009205644, US2009205643, US2009205641, US2009193568, US2009192459, US2008295829, US2008287878, US2008283065, US2008281433, US2008281295, US2008281151, US2008237092, US2008197059, US2008197055, US2008190953, US2008188809, US2008177252, US2008082061, US2008029444, US2008021734, US2008021415, US2008015899, US2008015898, US2008009783, US2007278140, US2007270776, US2007250022, US2007241119, US2007163598, US2007105180, US2007051372, US2007049898, US2006264899, US2006218002, US2006206354, US2006144440, US2006142707, US2006124126, US2006118126, US2006118125, US2006107961,

US2006100578, US2006084920, US2005279351, US2005247203, US2005234429, US2005161040, US2005101922, US2005025816, US2005016287, US2004244803, US2004243105, US2004237966, US2004230135, US2004225254, US2004204693, US2004143228, US2004102728, US2004059303, US2004039335, US2003225366, US2003069551, US2003053938, US2002198505, US2002111592, US2002082568, US2002055690, TWI409087, KR101367235, JP5735676, JP2014111205, JP2009530048, JP2004130112, GB2377180, EP3069736, EP3069736, EP2022514, EP2022513, EP1996269, EP1393760, EP1144021, EP0883430, EP0883430, EP0837702, EP0775498, DE202007018756, CN106139262, CN105939737, CN105363078, CN105363078, CN104771796, CN103998071, CN103520827, CN103405814, CN102905737, CH709183, AU771756, AU723155, AU2007227166, AU2003236462, AU2003236462, AU2002308757,

Abstract:
Source: US4988342A A thoracic cavity drainage **device** includes a first vessel having a plurality of chambers one of which is a regulated drainage chamber, and a separate transfer vessel which receives **fluid** collected in the drainage chamber of the first vessel. The chambers of both vessels are interconnected in a series by **fluid** passageways which cooperate to maintain a uniform range of suction in the drainage chamber while preventing passage of water into the drainage chamber and permitting a different level of suction in the transfer vessel. This operation is effective despite relatively large pressure and vacuum impulses caused by stripping of drainage **lines**, patient coughing, and the like, and despite discrete changes in the physical configuration of the system caused by disconnection of the transfer vessel, **connection** of the transfer vessel to an infusion **line** or the opening or closing of **fluid** **lines** and ports. A novel transfer vessel empties the drainage **device** and provides gravity reinfusion of the collected **fluids**. A mechanism within the transfer vessel provides an effective suction without vacuum **connections** or pressure regulating adjustments.



197) Family number: 30007204 (US5614192A)

© PatBase

Title: T CELL RECEPTOR PEPTIDES AS THERAPEUTICS FOR IMMUNE-RELATED DISEASE

Priority:
KR19930703699 19931130 US19890382804 19890719 US19900467577 19900119
US19900554529 19900719 WO1996US09423 19960606 US19950476405 19950607
WO1990US04085 19900719 WO1990US04085 19900719 US19930059020 19930316
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Family:

Publication number	Publication date	Application number	Application date
AT161850 E	19980115	AT19900911332T	19900719
AT189230 E	20000215	AT19920912864T	19920601
AU199060485 A1	19910222	AU19900060485	19900719
AU199221472 A1	19930108	AU19920021472	19920601
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ES2112838 T5	20040901	ES19900911332T	19900719
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GR3033318 T3	20000929	GR20000401002T	20000426
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KR19927003036 A	19921217	KR19927000152	19900719
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NO920252 A0	19920120	NO19920000252	19920120
NO934320 A	19940127	NO19930004320	19931129
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WO9640778 A1	19961219	WO1996US09423	19960606
ZA9005674 A	19911224	ZA19900005674	19900719

Probable Assignee: CONNETICS CORP

Assignee(s):(std)**:** ARTHUR ALLEN VANDENBANK ; ARTHUR ALLEN VANDENBARK ; ARTHUR ALLEN VANDERBARK ; CONNECTIVE THERAPEUTICS INC ; CONNETICS CORP ; VANDENBARK ARTHUR ALLEN ; VANDENBARK ARTHUR A ; IMMUNE RESPONSE CORP INC ; XOMA CORP

Assignee(s): SILICON VALLEY BANK ; KEVIN KIMBERLIN PARTNERS LP ; CONNETICS CORP PALO ALTO ; CONNETICS CORP PALO ALTO CALIF US ; IMMUNE RESPONSE CORP ; CONNECTICS CORP

Inventor(s):(std)**:** ARTHUR ALLEN VANDENBANK ; CONNETICS CORP ; VANDENBANK ARTHUR ALLEN ; VANDENBARK ARTHUR A ; VANDENBARK ARTHUR ALLEN ; XOMA CORPORATION ; CONNETICS CORPORATION ; ARTHUR ALLEN VANDENBARK ; ARTHUR A VANDENBARK ; XOMA CORP ; VANDENBARK ALLEN

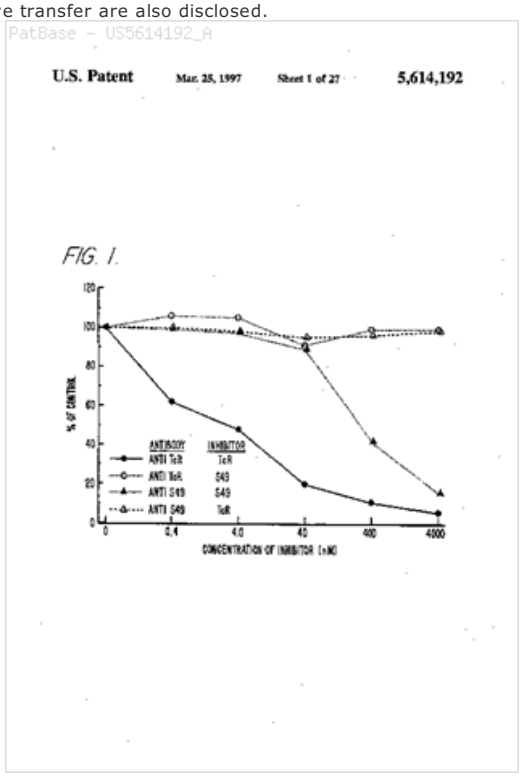
Agent(s): PETER MAXWELL AND ASSOCIATES; GOWLING LAFLEUR HENDERSON LLP; SANFORD TCOLB AND CO

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

International class (IPC 8-9):
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A61K38/00 A61K39/00 (Core/Non-invention);

	A61K C07K (Subclass/Invention)
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CPC:	Y10S530/868 C07K2317/34 C07K14/7051 A61K38/00 A61K39/00 C07K16/2809
European class:	C07K14/705B12 C07K16/28A12 K61K38/00 K61K39/00 M07K203/00 M07K207/00 M07K209/00
US class:	424/184.1 424/185.1 424/193.1 514/12 514/12.2 514/16 514/16.6 514/17.9 514/2 514/21.3 530/300 530/324 530/326 530/328 530/395 530/868
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Abstract:
Source: US5614192A Peptides and pharmaceutical compositions comprising immunogenic peptides of a marker T cell receptor (TCR) characteristic of an immune-related disease, capable of preventing, suppressing, or treating the disease, are disclosed. In a preferred embodiment, the amino acid sequence of the peptide corresponds to at least part of the second complementarity determining region (CDR2) of the TCR. Antibodies and/or T cells immunologically reactive to the TCR peptide capable of preventing, suppressing, or treating an immune-related disease by passive transfer are also disclosed.



198) Family number: 29437906 (US2003023205A)

Title: **MEDICAL DEVICES** WITH RETRACTABLE NEEDLE

Priority:

CA19902096026 19901107	EP19900917229 19901107	EP19960114810 19901107
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Family:

Publication number	Publication date	Application number	Application date
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WO9208505 A1	19920529	WO1990US06462	19901107

Probable Assignee: MDC INVESTMENT HOLDINGS INC

Assignee(s):(std)**:** BOTICH ; BOTICH MICHAEL J ; BOTICH MICHAEL J VENTURA ; HALSETH ; HALSETH THOR R ; MED DESIGN INC ; MDC INVEST HOLDINGS INC ; MDC DESIGN CORP ; THOR R HALSETH ; EM DI SI INVESTMENT KHOLDINGZ ; HALSETH THOR R SIMI VALLEY

Assignee(s): MDC INVESTMENT HOLDINGS INC WILMINGTON DEL US ; MAJKL DZH.BOTICH[US] ; HALSETH THOR BOTICH MICHAEL ; EM DI SI INVESTMENT KHOLDINGZ INK ; WILLIAMS SCOTT PENNSYLVANIA MERCHANT S ; WILLIAMS SCOTT PENNSYLVANIA MERCHANT S GROUP FOUR ; WILLIAMS SCOTT ; MICHAEL J BOTICH ; WILLIAMS SCOTT (AS AGENT FOR BOND HOLDERS) ; TOR R.KHEHLSET[US] ; WILLIAMS SCOTT AS AGENT FOR BOND HOLDERS ; MDC INVESTMENT HOLDINGS INC ; HALSETH THOR R SIMI VALLEY CALIFORNIA ; BOTICH MICHAEL J VENTURA CALIFORNIA

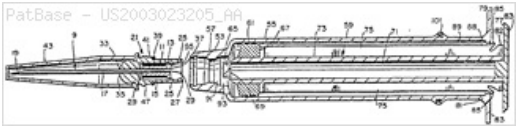
Inventor(s):(std)**:** BOTICH MICHAEL ; BOTICH MICHAEL J VENTURA ; HALSETH THOR R SIMI VALLEY ; HALSETH TOR ; MAJKL DZH BOTICH ; TOR R KHELSET ; THOR R HALSETH ; MICHAEL J BOTICH ; HALSETH THOR R ; HALSETH THOR ; BOTICH MICHAEL J

Inventor(s): MAJKL DZH.BOTICH[US] ; TOR RKHELSET ; TOR R.KHEHLSET[US] ; MAJKL DZHBOTICH ; HALSETH TOR SIMI VALLEY CA 93065 US ; BOTICH MICHAEL VENTURA CA 93003 US

Agent(s):	FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD; BERESKIN AND PARR LLP SENCRL SRL; STEPHEN H; DANN DORFMAN HERRELL AND SKILLMAN
Designated states:	AT AU BB BE BF BG BJ BR CA CF CG CH CM DE DK ES FI FR GA GB GR HU IT JP KP KR LI LK LU MC MG ML MR MW NL NO RO SD SE SN SU TD TG US
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Abstract:
Source: US2003023205A A hypodermic **injection** system with a retractable needle wherein the needle retracts within an interior cavity of a syringe plunger, such that the needle is confined within the plunger. A spring biases the needle rearwardly into the plunger, and a needle retainer releasably retains the needle against the bias of the spring. The plunger has a frangible end, which dissociates when the plunger engages the needle retainer, allowing the coiled spring to eject the needle into the interior cavity of the plunger. A body **fluid** sampling embodiment employs the same functional elements except the plunger is shorter and contains a linking that communicates with a vacuum container. The container allows **fluid** sampling and provides the structure to release the spring retracting the needle. The retractable needle embodiment is also employed with an insertion needle that guides a catheter tube below the skin of a patient and into the vein, and allows retraction of the insertion needle thereby avoiding accidental pricking of the health care worker by the insertion needle.



199) Family number: 3551846 (US5168045A)

Title: DIAGNOSTIC SYSTEMS AND METHODS USING POLYPEPTIDE ANALOGS OF APOLIPOPROTEIN E

Priority: CA19902023521 19900817 US19890395732 19890818 US19900625093 19901210
US19910769629 19910930 US19900485158 19900226 US19900540363 19900618
WO1991US09269 19911210 US19910805193 19911209 WO1990US04651 19900817

Family:

Publication number	Publication date	Application number	Application date
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AU648991 B2	19940512	AU19900063370	19900817
CA2023521 AA	19910219	CA19902023521	19900817
EP0487629 A1	19920603	EP19900913358	19900817
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GR1001065 B	19930428	GR19900100621	19900817
GR900100621 A	19911230	GR19900100621	19900817
GR910100087 A	19920630	GR19910100087	19910221
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IE914299 A1	19920617	IE19910004299	19911210
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WO9102751 A1	19910307	WO1990US04651	19900817
WO9210512 A1	19920625	WO1991US09269	19911210

Probable Assignee: THE SCRIPPS RESEARCH INSTITUTE

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Inventor(s):(std)**:** CURTISS K LINDA ; CURTISS LINDA K ; DYER A CHERYL ; DYER CHERYL A ; SMITH RICHARD

Inventor(s): CHERYL A DYER ; LINDA K CURTISS ; RICHARD SMITH

Agent(s): GRIFFITH HACK; FETHERSTONHAUGH AND CO

Designated states: AT AU BE CA CH DE DK ES FI FR GB GR IT JP LI LU MC NL NO SE

International class (IPC 8-9): A61K38/00 A61K38/04 A61K38/17 A61K39/395 A61P3/06 A61P37/06 A61P7/00 C07K14/775 C07K16/00 C07K16/18 C07K7/08 C12N15/02 C12N5/10 C12P21/08 G01N33/53 G01N33/536 G01N33/543 G01N33/566 G01N33/92 (Advanced/Invention);
A61K38/00 A61K38/04 A61K39/395 A61P7/00 C07K16/00 C12N15/02 C12N5/10 C12P21/08 C12R1/91 G01N33/53 (Advanced/Non-invention);
A61K38/00 A61K38/04 A61K38/17 A61K39/395 A61P3/00 A61P37/00 A61P7/00 C07K14/435 C07K16/00 C07K16/18 C07K7/00 C12N15/02 C12N5/10 C12P21/08 G01N33/53 G01N33/536 G01N33/543 G01N33/566 G01N33/92 (Core/Invention)

International class (IPC 1-7): A61K37/00 A61K37/02 A61K37/22 A61K37/43 A61K38/00 A61K38/17 A61K39/395 C07K C07K13/00 C07K14/775 C07K15/16 C07K7/00 C07K7/04 C07K7/06 C07K7/08 C07K7/10 C07K99/00 C12N15/06 C12N5/20 C12P21/08 G01N33/00 G01N33/53 G01N33/531 G01N33/536 G01N33/543 G01N33/564 G01N33/566 G01N33/68 G01N33/92

CPC: C07K16/18 A61K38/00 C07K14/775

European class: C07K14/775 C07K16/18 K61K38/00 M07K203/00 M07K209/00

US class: 435/7.92 435/7.93 435/7.94 435/792 435/793 435/794 436/518 514/12 530/324 530/326 530/328 530/387.9 530/389.3 530/391.1 930/DIG.821

Classification Explorer

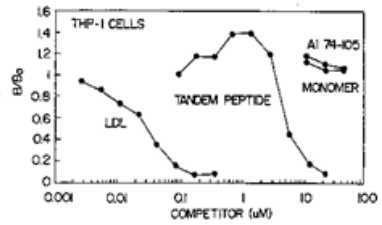
Cited documents: WO9102751, US4970144 A, US4877746 A, US4828986 A, US4677057 A, US4643988 A, US4483793 A, EP0297456 A2, EP0119342 A1,

Forward Citations: WO9947566, WO9725070, WO9725070, WO9505190, WO9325581, WO9210512, WO14011908, WO13049328, WO12099755, WO12064824, WO12016188, WO12016184, WO11153493, WO11141705, WO11141704, WO11139911, WO11075656, WO11071860, WO11008823, WO10144740, WO10129709, WO10105209, WO10088537, WO10054406, WO10054401, WO05058959, WO05058959, US9809640, US9597408, US8288336, US8288335, US8198234, US8093209, US8034762, US7947645, US7915226, US7319092, US7205280, US6531446, US6506880, US6344436, US6277874, US6027896, US5767248, US5733879, US5716828, US5508167, US2016145310, US2016108104, US2013005645, US2010216663, US2009185997, US2009169614, US2009136467, US2009131315, US2009042783, US2008227686, US2008206142, US2008199398, US2008146506, US2008138284, US2007154449, US2006286603, US2006223114, US2006008797, US2005221384, US2005164301, US2005101565, US2005089932, US2005053973, US2005048512, US2004175756, US2003082630, US2003077641, US2002164789, ITTO20080894, EP3243504, EP3238738, EP3202760, EP3097908, EP2810643, EP2277911, EP1599173, EP1599173, EP0659085, EP0625212, EP0625212,

Abstract:
Source: US5168045A Apo E polypeptides capable of mimicking apolipoprotein E are described that are useful to prepare diagnostic antibodies, and for use in diagnostic systems and methods for detecting apo E antigens in vascular body **fluids**.

PatBase - US5168045_A

FIG. Ia



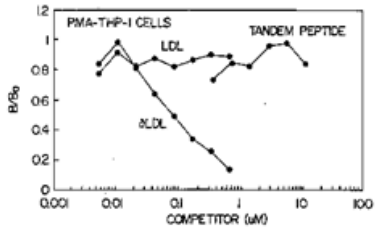


FIG. Ib

200) Family number: 30111655 (US2001055563A)

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Title: POST-LABELING STABILIZATION OF RADIOLABELED PROTEINS AND PEPTIDES

Priority:

JP19900514313	19900808	JP19900514313T	19900808	US19890391474	19890809
US19920864470	19920406	US19920816476	19920103	US19920816477	19920103
US19900565275	19900808	US19920840077	19920220	US19920840076	19920220
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US19950454950	19950531	US19920998910	19921230	US19930087219	19930702
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US19960651179	19960521	US20010900390	20010706	US19990393581	19990909

Family:

Publication number	Publication date	Application number	Application date
AT172879 E	19981115	AT19900915377T	19900808
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Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CS CU CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU

International class (IPC 8-9): A61K38/00 A61K39/395 A61K49/00 A61K49/08 A61K51/00 A61K51/08 A61K51/10 A61K51/12 A61K9/00 A61M36/14 A61P29/00 A61P35/00 C07B59/00 C07K1/13 C07K14/00 C07K14/52 C07K14/655 C07K14/78 C07K16/00 C07K16/18 C07K5/083 C07K5/103 C07K7/06 C07K7/08 C07K7/64 G01N33/534 G01N33/60 (Advanced/Invention);
A61K38/00 A61K39/395 A61K51/00 A61K9/00 A61P29/00 A61P35/00 (Advanced/Non-invention);
A61K49/06 A61K51/00 A61K51/02 A61M36/00 C07K14/435 C07K5/00 C07K7/00 (Core/Invention);
A61K38/00 (Core/Non-invention)

International class (IPC 1-7): A61B5/055 A61K37/02 A61K38/00 A61K38/31 A61K39/395 A61K43/00 A61K49/00 A61K49/02 A61K51/00 A61K51/08 A61K51/10 A61K9/00 A61M36/14 A61P29/00 A61P35/00 C07B59/00 C07F5/00 C07K1/13 C07K14/655 C07K15/22 C07K15/28 C07K16/00 C07K16/18 C07K17/00 C07K2/00 C07K3/08 C07K7/00 C07K7/06 C07K7/08 C07K7/10 C07K7/26 C07K7/64 G01N31/00 G01N33/15 G01N33/48 G01N33/534 G01N33/60

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European class: A61K49/08Z A61K49/14 A61K51/08 A61K51/08Z A61K51/10 A61K51/10B18 A61K51/12 A61K51/12C A61K51/12D C07K14/00B C07K14/52 C07K14/655 C07K14/78 C07K5/08A1F C07K5/10A1F C07K7/06 K61K121/00 K61K123/00 K61K38/00 M07K203/00

US class: 206/524.1 424/1.1 424/1.11 424/1.41 424/1.410P 424/1.49 424/1.490P 424/1.490S 424/1.53 424/1.65 424/1.69 424/1.690P 424/1.73 424/130.1 424/141.1 424/149 424/153 424/179.1 424/806 424/85.1 424/9.1 424/9.3 424/9.34 424/9.341 424/9.35 424/9.42 530/300 530/304 530/311 530/311S 530/326 530/327 530/328 530/329 530/330 530/331 530/351 530/391.3 530/391.5 530/396 530/400 530/400S 530/402 530/863 530/866 534/10 534/14 534/15 600/573

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Abstract:
Source: US2001055563A The subject invention relates to the use of ascorbic acid and derivatives thereof in stabilizing radiolabeled proteins and peptides against oxidation loss of radiolabel and autoradiolysis. Ascorbic acid is added after radiolabeling, including any required incubation period, but prior to patient administration.

PatBase - US2001055563_AA

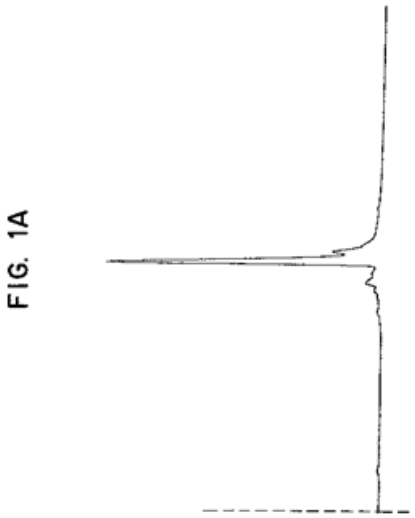


FIG. 1A