

1) Family number: 50475283 (US2012123322A)

© PatBase

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

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

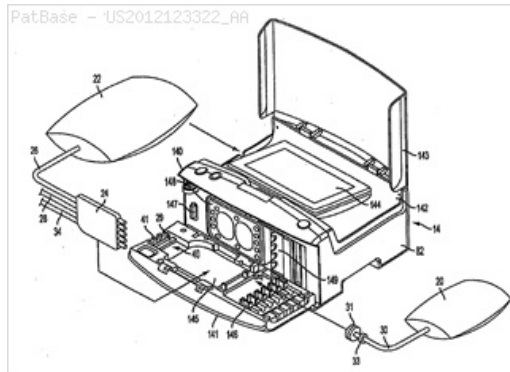
Classifications:

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

CPC: F04B43/02 F17D1/00 F16L53/00 H02J7/007 A61M39/1011 A61M2205/3379 A61M2209/08 A61M39/20 A61M2205/502 A61M2205/127 A61M1/3656 A61M2205/13 A61M2205/14 A61M2205/3306 A61M2205/3673 A61M2205/3331 A61M39/22 A61M2205/3389 A61M2205/6072 A61M2205/702 A61M2205/18 A61M2205/581 A61M2205/583 A61M2205/52 G01V8/20 A61M1/1664 A61M2205/3368 A61M2205/36 A61M2039/1066 A61M2205/122 A61M2205/128 A61M2205/15 A61M2205/50 A61M2205/8212 H05B1/025 A61M39/28 A61M1/1006 A61M1/1012 A61M1/1037 A61M1/106 A61M1/1062 A61M1/1086 A61M1/1087 A61M1/1096 A61M1/166 A61M1/28 A61M2205/12 A61M2205/3334 A61M2205/3396 A61M2205/6063 Y02A90/26 Y10T137/6416 Y10T137/85978 A61M1/16 A61M1/281 A61M1/282 A61M1/288 A61M5/16813 A61M39/105 A61M39/281 F04B43/08 F04B43/086

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

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



Family:

Publication number	Publication date	Application number	Application date
AU2012327182 AA	20130523	AU20120327182	20121102
AU2012327182 BB	20151112	AU20120327182	20121102
AU2016200812 AA	20160303	AU20160200812	20160209
AU2016200812 BB	20161103	AU20160200812	20160209
AU2017200700 AA	20170302	AU20170200700	20170202
CA2804216 AA	20121231	CA20112804216	20110707
DE602012011201 D1	20151112	DE201260011201T	20121102
DE602012031521 D1	20170601	DE201260031521T	20121102
EP2591385 A2	20130515	EP20110731611	20110707
EP2591385 B1	20171011	EP20110731611	20110707
EP2773395 A2	20140910	EP20120788018	20121102
EP2773395 B1	20150930	EP20120788018	20121102
EP3002989 A1	20160406	EP20150187342	20121102
EP3002989 B1	20170419	EP20150187342	20121102
EP3151877 A1	20170412	EP20150731438	20150605
EP3219342 A1	20170920	EP20170157596	20121102
EP3279703 A1	20180207	EP20170189188	20110707
EP3282289 A1	20180214	EP20170189189	20110707
JP2013533793 T2	20130829	JP20130518830T	20110707
JP2014533155 T2	20141211	JP20140540140T	20121102
JP2016179233 A2	20161013	JP20160120191	20160616
JP2017042622 A2	20170302	JP20160202018	20161013
JP2017522929 T2	20170817	JP20160571234T	20150605
JP5956437 B2	20160727	JP20130518830T	20110707
JP6027129 B2	20161116	JP20140540140T	20121102
MX2013000212 A1	20130509	MX20130000212	20110707
MX2014005451 A1	20150218	MX20140005451	20121102
MX2016016004 A1	20170711	MX20160016004	20150605
MX338607 B	20160422	MX20140012807	20130107
SG10201408587V A1	20150227	SG20141008587	20110707
SG10201505334Y A1	20150828	SG20151005334	20110707
SG10201608220S A1	20161129	SG20161008220	20121102
SG11201402017Q A1	20140926	SG20141102017	20121102
SG11201610049U A1	20161229	SG20161110049	20150605
SG186939 A1	20130228	SG20130000856	20110707
US2012123322 AA	20120517	US20110178191	20110707
US2013165847 AA	20130627	US20120667679	20121102
US2013184638 AA	20130718	US20120667696	20121102
US2014323954 AA	20141030	US20140262275	20140425
US2014364800 AA	20141211	US20140466437	20140822
US2015057603 AA	20150226	US20140522761	20141024

US2015231320 AA	20150820	US20150703674	20150504
US2016082173 AA	20160324	US20150798401	20150713
US2016101227 AA	20160414	US20150732564	20150605
US2016101278 AA	20160414	US20150732571	20150605
US2016144093 AA	20160526	US20160012764	20160201
US2016296687 AA	20161013	US20160181248	20160613
US2017128652 AA	20170511	US20160174969	20160606
US2017157310 AA	20170608	US20170432265	20170214
US8708950 BB	20140429	US20110178191	20110707
US9078971 BB	20150714	US20120667696	20121102
US9366781 BB	20160614	US20140262275	20140425
US9839775 BB	20171212	US20140466437	20140822
US9839776 BB	20171212	US20140522761	20141024
US9861732 BB	20180109	US20120667679	20121102
WO12006425 A2	20120112	WO2011US43196	20110707
WO12006425 A3	20120426	WO2011US43196	20110707
WO12006425 A8	20130214	WO2011US43196	20110707
WO13067359 A2	20130510	WO2012US63336	20121102
WO13067359 A3	20131114	WO2012US63336	20121102
WO15188154 A1	20151210	WO2015US34570	20150605
WO15188154 A8	20170119	WO2015US34570	20150605
WO15188154 A9	20160421	WO2015US34570	20150605

Priority:

AU20120327182	20121102	AU20160200812	20160209	EP20120788018	20121102
AU20170200700	20170202	EP20150187342	20121102	EP20110731611	20110707
US20100362259P	20100707	US20080011967P	20080123	US20080058469P	20080603
JP20130518830T	20110707	JP20160120191	20160616	JP20140540140T	20121102
JP20160202018	20161013	EP20150187342	20150929	US20110178191	20110707
US20120667679	20121102	US20100864357	20101213	US20100864378	20101209
US20100864391	20101203	US20100864287	20101217	US20100864293	20101209
US20100864322	20101220	US20110555926P	20111104	US20120667696	20121102
US20140262275	20140425	US20140466437	20140822	US20140522761	20141024
US20140008342P	20140605	US20150155937P	20150501	US20150159737P	20150511
WO2011US43196	20110707	WO2012US63336	20121102	WO2009US00440	20090123
WO2009US00436	20090123	WO2009US00439	20090123	WO2009US00437	20090123
WO2009US00433	20090123	WO2009US00441	20090123	US20150703674	20150504
US20150798401	20150713	US20150732564	20150605	US20150732571	20150605
US20160012764	20160201	US20160181248	20160613	WO2015US34570	20150605
US20160174969	20160606	US20170432265	20170214		

Probable Assignee: DEKA PRODUCTS PARTNERSHIP LTD

Assignee(s): (std): DEKA PRODUCTS LP ; DEKA PRODUCTS LTD PARTNER ; FINCH MATTHEW J ; HELMORE SIMON C ; SCARPACI JACOB W ; VANWYK ERIC J

Assignee(s): DEKA PRODUCTS PARTNERSHIP MANCHESTER LTD ; DEKA PRODUCTS PARTNER LTD ; DEKA PRODUCTS PARTNERSHIP LTD ; DEKA PRODUCTS LIMITED PARTNERSHIP

Inventor(s): (std): BEAVERS DAVID A ; BODWELL JESSE T ; BRYANT JR ROBERT J ; BRYANT ROBERT J ; COLL ANDREW S ; DALE JAMES D ; DANIEL B SINGER ; DANIEL S KAROL ; DAVID B DOHERTY ; DEMERS JASON A ; DOHERTY DAVID A ; EDGAR J BOLTON ; HIBBARD DAVID J ; JINSUN YOO ; JOSEPH P RUSHLOW ; KAMEN DEAN ; KERWIN JOHN M ; LANIGAN RICHARD J ; MANDRO MARC A ; MCGILL DAVID W ; OVERSON JASON M ; PAUL G GIROUARD ; SPENCER GEOFFREY P ; WANG TIEN SHOE ; YOO JINSUN ; SINGER DANIEL B ; RUSHLOW JOSEPH P ; NORRIS MICHAEL G ; KAROL DANIEL S ; GIROUARD PAUL G ; DOHERTY DAVID B ; BOLTON EDGAR J ; VANWYK ERIC J ; SCARPACI JACOB W ; HELMORE SIMON C ; FINCH MATTHEW J ; ROBERT J BRYANT ; JOHN M KERWIN ; GEOFFREY P SPENCER ; DAVID J HIBBARD ; DAVID A BEAVERS ; ANDREW S COLL ; SIMON C HELMORE ; MATTHEW J FINCH ; ERIC J VANWYK

Inventor(s): DALE JAMES D NASHUA ; COLL ANDREW S MANCHESTER ; BRYANT ROBERT J MANCHESTER ; BEAVERS DAVID A MANCHESTER ; HIBBARD DAVID J BEDFORD ; HELMORE SIMON C SOMERVILLE ; MCGILL DAVID W ALPHARETTA ; KERWIN JOHN M MANCHESTER ; SPENCER GEOFFREY P MANCHESTER ; SCARPACI JACOB W MANCHESTER

Agent(s): PIZZEYS PATENT AND TRADE MARK ATTORNEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; CASSAN MACLEAN; CASSAN MACLEAN IP AGENCY INC; HOFFMANN EITL; ONDA HIRONORI; ONDA MAKOTO; SPRUSON AND FERGUSON ASIA PTE LTD; WOLF GREENFIELD AND SACKS PC; HUNT ROBERT E; POMIANEK MICHAEL J

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

2) Family number: 46404072 (US2010191181A)

© PatBase

Title: DRAIN AND FILL LOGIC FOR AUTOMATED PERITONEAL DIALYSIS

Abstract: Source: US2010191181A [EN] A system and method for automatically adjusting a Continuous Cycling Peritoneal Dialysis ("CCPD") therapy to minimize the potential for excess intra-peritoneal volume. The adjustments are made at the end of the drain, just prior to the next fill. The adjustments short the next fill, if necessary, to limit the intra-peritoneal volume, add a cycle, if necessary, to use all of the available dialysis solution and will average the remaining dwell time to maximize the therapeutic benefit of the therapy in the allotted time. In another embodiment, a tidal therapy using trended patient UF data is provided.

Classifications:

International (IPC 8-9): A61M1/28 B01D61/30

B01D61/32 (Advanced/Invention);

A61M1/28 (Core/Invention)

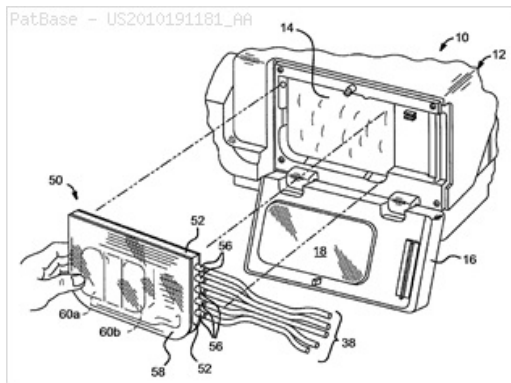
CPC: A61M1/281 A61M1/282 A61M2205/3379 B01D61/30 B01D61/32

A61M1/284 A61M1/28

European: A61M1/28 K61M1/28A K61M1/28B

US: 1/1 210/141 210/143 210/321.65 210/646 210/87 604/28

604/28P 604/29 604/29P 604/31 604/31S 604/67 702/19 706/45

**Family:**

Publication number	Publication date	Application number	Application date
DE602010023015 D1	20150423	DE201060023015T	20100128
DE602010023137 D1	20150423	DE201060023137T	20100128
EP2391403 A1	20111207	EP20100702791	20100128
EP2391403 B1	20150311	EP20100702791	20100128
EP2484390 A2	20120808	EP20120166269	20100128
EP2484390 A3	20130109	EP20120166269	20100128
EP2484390 B1	20150311	EP20120166269	20100128
US2010191181 AA	20100729	US20090362259	20090129
US2012215159 AA	20120823	US20120458625	20120427
US2016067399 AA	20160310	US20150854923	20150915
US8182673 BB	20120522	US20090362259	20090129
US9132222 BB	20150915	US20120458625	20120427
WO10088360 A1	20100805	WO2010US22370	20100128

Priority:

EP20100702791	20100128	EP20120166269	20100128	US20090362259	20090129
US20120458625	20120427	US20120402355	20120222	US20090362240	20090129
WO2010US22370	20100128	US20150854923	20150915		

Probable Assignee: BAXTER HEALTHCARE SA**Assignee(s):** (std): BAXTER HEALTHCARE SA ; BAXTER INT ; CHILDERS ROBERT W ; HOPPING PETER A ; HOPING PETER A ; LO YING CHENG**Assignee(s):** BAXTER INT INC DEERFIELD ; BAXTER HEALTHCARE GLATTPARK SA ; BAXTER HEALTHCARE S A ; BAXTER INTERNATIONAL INC. ; BAXTER INT INC**Inventor(s):** (std): CHILDERS ROBERT W ; HOPING PETER A ; HOPPING PETER A ; LO YING CHENG**Inventor(s):** LO YING CHENG GREEN OAKS ; HOPPING PETER A LUTZ ; CHILDERS ROBERT W TRINITY**Agent(s):** MUELLER BORE AND PARTNER PATENTANWAELTE PARTG MBB; DEE IAN MARK; POTTER CLARKSON LLP; K AND L GATES LLP; K AND L GATES LLP ET AL**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**3) Family number: 30226894 (US2004019313A)**

© PatBase

Title: SYSTEMS, METHODS AND APPARATUSES FOR PUMPING CASSETTE-BASED THERAPIES**Abstract:** Source: US2004019313A [EN] The present invention provides systems, methods and apparatuses for medical fluid delivery systems that employ a pumping cassette. In particular, the present invention provides systems, methods and apparatuses for cassette-based dialysis therapies including hemodialysis, hemofiltration, APD (including tidal modalities) and CFPD. The embodiments described include a combined pump/valve housing, a fail safe pump/valve arrangement, a cassette auto-alignment feature, a pumping membrane material, a multiplexing valve arrangement, an expert fluid pumping management system, an integral port vent and an in-line air separation chamber and combinations of each of these.**Classifications:**

International (ipc 8-9): A61M1/00 A61M1/10 A61M1/14 A61M1/16 A61M1/28 A61M1/34 A61M37/00 B01D1/00 B01D11/00 B01D61/00 B01D61/26 B01D61/30 B01D61/32 C02F1/44 C02F9/00 F04B43/00 F04B45/04 (Advanced/Invention); A61M1/16 C02F9/00 F04B45/04 (Advanced/Non-invention); A61M1/00 A61M1/14 A61M1/28 A61M1/34 A61M37/00 B01D1/00 B01D61/24 C02F1/44 C02F9/00 F04B43/00 F04B45/00 (Core/Invention); C02F9/00 F04B45/00 (Core/Non-invention)

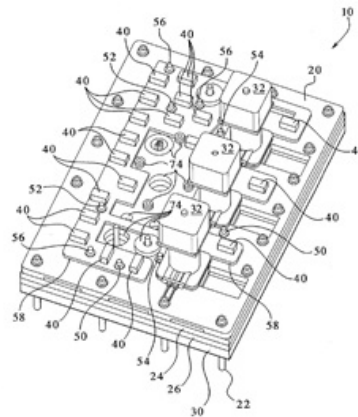
International (ipc 1-7): A61M1/00 A61M1/10 A61M1/14 A61M1/16 A61M1/28 A61M37/00 B01D1/00

CPC: A61M2202/0021 A61M1/28 A61M1/281 A61M1/16 A61M1/284 A61M2205/122 A61M1/166 A61M1/1696

European: A61M1/16R2 A61M1/28 K61M1/16 K61M1/16R2 K61M1/28A K61M1/28B2 K61M205/12A1

US: 1/1 210/137 210/137S 210/143 210/143S 210/181 210/181S 210/195.2 210/195.200S 210/252 210/257.2 210/258 210/259 210/321.65 210/321.71 210/637 210/645 210/646 210/646S 210/647 210/650 210/669 210/805 210/806 417/477.2 417/479 417/479S 604/131 604/27 604/28 604/29 604/29P 604/29S 604/3 604/30 604/30S 604/31 604/4.01 604/40.1 604/5.01 604/5.01P 604/5.04 604/50.1 604/6.09 604/6.090P 604/6.1 604/6.11 604/6.110S 604/60.9 604/61.1

FIG.1



Family:

Publication number	Publication date	Application number	Application date
AT454176 E	20100115	AT20030765631T	20030716
AT509645 E	20110615	AT20030759180T	20030716
AU2003249297 AA	20040209	AU20030249297	20030716
AU2003249297 AH	20040209	AU20030249297	20030716
AU2003274901 AA	20040209	AU20030274901	20030716
AU2003274901 AH	20040209	AU20030274901	20030716
AU2003277371 AA	20040729	AU20030277371	20031015
AU2003277371 AH	20040729	AU20030277371	20031015
DE60330868 D1	20100225	DE20036030868	20030716
DE60337163 D1	20110630	DE20036037163	20030716
DE60337704 D1	20110901	DE20036037704	20031015
DE60343646 D1	20130523	DE20036043646	20031015
DE60344294 D1	20130808	DE20036044294	20030716
DE60348689 D1	20160421	DE20036048689	20031015
DK1523351 T3	20100426	DK20030765631T	20030716
EP1523347 A2	20050420	EP20030759180	20030716
EP1523347 B1	20110518	EP20030759180	20030716
EP1523351 A2	20050420	EP20030765631	20030716
EP1523351 B1	20100106	EP20030765631	20030716
EP1585565 A1	20051019	EP20030814606	20031015
EP1585565 B1	20110713	EP20030814606	20031015
EP2295091 A2	20110316	EP20100075477	20031015
EP2295091 A3	20120815	EP20100075477	20031015
EP2295091 B1	20170426	EP20100075477	20031015
EP2298376 A1	20110323	EP20100075437	20031015
EP2298377 A1	20110323	EP20100075478	20030716
EP2298378 A2	20110323	EP20100075479	20031015
EP2298378 A3	20130501	EP20100075479	20031015
EP2298378 B1	20160316	EP20100075479	20031015
EP2308526 A2	20110413	EP20100075426	20031015
EP2308526 A3	20110427	EP20100075426	20031015
EP2308526 B1	20130327	EP20100075426	20031015
EP2338543 A1	20110629	EP20100015668	20030716
EP2338543 B1	20130612	EP20100015668	20030716
ES2339239 T3	20100518	ES20030765631T	20030716
ES2366781 T3	20111025	ES20030759180T	20030716
ES2427174 T3	20131029	ES20100015668T	20030716
JP2005533560 T2	20051110	JP20040523195T	20030716
JP2005533574 T2	20051110	JP20040523475T	20030716
JP2006512138 T2	20060413	JP20040564788T	20031015
JP2009172399 A2	20090806	JP20090077762	20090326
JP2009213943 A2	20090924	JP20090159184	20090703
JP2009254918 A2	20091105	JP20090187893	20090813
JP2011088000 A2	20110506	JP20110025478	20110208
JP2012106078 A2	20120607	JP20120046987	20120302
JP2015013186 A2	20150122	JP20140176245	20140829
JP2016047334 A2	20160407	JP20150235910	20151202
JP2017064562 A2	20170406	JP20170010439	20170124

JP44607486 B2	20100324	JP20040554798T	20030918
JP4907683 B2	20120404	JP20090077762	20090326
JP4971395 B2	20120711	JP20090187893	20090813
JP5023108 B2	20120912	JP20090159184	20090703
JP5505905 B2	20140528	JP20110025478	20110208
JP5636385 B2	20141203	JP20120046987	20120302
JP5995221 B2	20160921	JP20140176245	20140829
JP6170988 B2	20170726	JP20150235910	20151202
MXPA05000817 A1	20050428	MX2005PA00817	20030716
MXPA05000818 A1	20050829	MX2005PA00818	20030716
MXPA05006867 A1	20050818	MX2005PA06867	20031015
US2004019313 AA	20040129	US20020335646	20021231
US2004019320 AA	20040129	US20030624150	20030717
US2004082903 AA	20040429	US20030623317	20030717
US2007158267 AA	20070712	US20070690584	20070323
US2007213653 AA	20070913	US20060617527	20061228
US2008033346 AA	20080207	US20070773148	20070703
US2008103429 AA	20080501	US20070772749	20070702
US2008132828 AA	20080605	US20070770424	20070628
US2009264812 AA	20091022	US20090474481	20090529
US2010010430 AA	20100114	US20090562737	20090918
US2011106003 AA	20110505	US20110987738	20110110
US2011144570 AA	20110616	US20110033126	20110223
US2011218487 AA	20110908	US20110110625	20110518
US2012259276 AA	20121011	US20120528502	20120620
US2014094738 AA	20140403	US20130096893	20131204
US2014094739 AA	20140403	US20130096904	20131204
US2014257176 AA	20140911	US20140283382	20140521
US2014343485 AA	20141120	US20140448612	20140731
US2015196700 AA	20150716	US20150670893	20150327
US2016184503 AA	20160630	US20160063762	20160308
US7208092 BB	20070424	US20030623317	20030717
US7238164 BB	20070703	US20020335646	20021231
US7744554 BB	20100629	US20070770424	20070628
US7867189 BB	20110111	US20060617527	20061228
US7922686 BB	20110412	US20030624150	20030717
US7922911 BB	20110412	US20090474481	20090529
US8206338 BB	20120626	US20070773148	20070703
US8679054 BB	20140325	US20120528502	20120620
US8740836 BB	20140603	US20130096893	20131204
US8740837 BB	20140603	US20130096904	20131204
US8815095 BB	20140826	US20090562737	20090918
US8992462 BB	20150331	US20110033126	20110223
US9283312 BB	20160315	US20110987738	20110110
US9795729 BB	20171024	US20140283382	20140521
WO04008826 A2	20040129	WO2003US22709	20030716
WO04008826 A3	20040513	WO2003US22709	20030716
WO04009156 A2	20040129	WO2003US22269	20030716
WO04009156 A3	20040506	WO2003US22269	20030716
WO04060449 A2	20040722	WO2003US32571	20031015

Priority:

EP20030759180	20030716	EP20030765631	20030716	EP20030814606	20031015
JP20040523195	20030716	EP20090075523	20030716	EP20100075479	20031015
EP20100075426	20031015	EP20100015668	20030716	JP20040523195T	20030716
JP20040564788	20031015	JP20040523475	20030716	JP20090159184	20030716
JP20040523475	20090703	JP20090159184	20090703	JP20090187893	20030716
JP20090187893	20120302	JP20120046987	20030716	JP20140176245	20030716
JP20120046987	20120302	JP20040523475T	20030716	JP20040564788T	20031015
US20070773148	20070703	US20070772749	20070702	US20070770424	20070628
US20020335646	20021231	US20060617527	20061228	US20090474481	20090529
US20090562737	20090918	US20030624150	20030717	US20020397268P	20020719
US20110987738	20110110	US20110033126	20110223	US20110110625	20110518
US20070690584	20070323	US20030623317	20030717	US20020397045P	20020719
US20120528502	20120620	US20130096904	20131204	US20130096893	20131204
US20140283382	20140521	US20090624150	20090717	US20080397268P	20080719
JP20140176245	20120302	JP20150235910	20030716	JP20170010439	20170124
WO2003US32571	20031015	WO2003US22269	20030716	WO2003US22709	20030716
US20140448612	20140731	US20150670893	20150327	US20160063762	20160308

Probable Assignee: BAXTER HEALTHCARE SA

Assignee(s): (std): BAXTER HEALTHCARE S A ; BAXTER HEALTHCARE SA ; BAXTER INT ; BAXTER INT INC ; PAN LEE ; CHILDERS ROBERT W ; LAUMAN BRIAN ; BOORAS JOHN ; HOPPING ANDREW D ; HOWARD DAVID ; KELLAM BENJAMIN ; SHANG SHERWIN ; VESCOVI DAVID ; GRIPPO PAUL ; JERRELL JEFFREY W ; MICHELI BRIAN R ; AVOY RICHARD ; BOWMAN JR JOSEPH H ; YU ALEX ; YANG TAHUA

Assignee(s): BAXTER HEALTHCARE GLATTPARK SA ; BAXTER INT INCORPORATED ; BOWMAN JOSEPH H ; BAXTER INT INC DEERFIELD ; BAXTER INTERNATIONAL INC ; BAXTER INTERNATIONAL INCORPORATED ; BAXTER INTERNATL INC

Inventor(s): (std): AVOY RICHARD ; BOORAS JOHN ; BOWMAN JOSEPH H ; CHILDERS ROBERT W ; GRIPPO PAUL ; HOPPING ANDREW D ; HOWARD DAVID ; JERRELL JEFFREY W ; KELLAM BENJAMIN ; LAUMAN BRIAN ; MICHELI BRIAN R ; PAN LEE ; SHANG SHERWIN ; YANG TAHUA ; YU ALEX ; KELLAM BENJAMIN A ; BOWMAN JOSEPH H JR ; ALEX YU ; VESCOVI DAVID ; TAHUA YANG ; SHERWIN SHANG ; ROBERT W CHILDERS ; RICHARD AVOY ; PAUL GRIPPO ; JOSEPH H JR BOWMAN ; JOSEPH H BOWMAN JR ; JOSEPH H ; JOHN BOORAS ; JEFFREY W JERRELL ; GRIPPO POUL ; DAVID VESCOVI ; DAVID HOWARD ; LI PAN ; LEE PAN ; CHILDERS ROBERT ; CHILDERS ROBER W ; BRIAN R MICHELI ; BRIAN LAUMAN ; BOWMAN JR JOSEPH H ; BENJAMIN A KELLAM ; ANDREW D HOPPING ; LAUMANN BRIAN

Inventor(s): BOWMAN JOSEPH HJR ; BOWMAN ; LAUMANN BRIAN CLEARWATER ; JR JOSEPH H ; CHILDERS ROBERT

W TRINITY ; CHILDERS ROBERT W NEW PORT RICHEY ; PAN LEE TAMPA ; MICHELI BRIAN ; YU ALEX
SAFETY HARBOR ; YANG TAHUA WOODRIDGE ; SHANG SHERWIN VERNON HILLS ; LAUMAN BRIAN
CLEARWATER ; JERRELL JEFFREY W ORLANDO ; HOWARD DAVID GULFPORT ; HOPPING ANDREW D
LARGO ; GRIPPO PAUL PALM HARBOR ; BOORAS JOHN WILDWOOD ; AVOY RICHARD PALM HARBOR
MUELLER BORE AND PARTNER PATENTANWAELTE PARTG MBB; VONNEMANN KLOIBER AND KOLLEGEN;
DEE IAN MARK; PUGH ROBERT IAN; POTTER CLARKSON LLP; DEE IAN MARK ET AL; AZNAREZ PABLO;
BAXTER HEALTHCARE CORP; K AND L GATES LLP; BELL BOYD AND LLOYD LLP; JOSEPH P

Agent(s):

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

4) Family number: 46404068 (US2010191180A) © PatBase

Title: METHOD FOR OPTIMIZING TIDAL THERAPIES EMPLOYING ULTRAFILTRATE TRENDING

Abstract: Source: US2010191180A [EN] A system and method for automatically adjusting a Continuous Cycling Peritoneal Dialysis ("CCPD") therapy to minimize the potential for excess intra-peritoneal volume. The adjustments are made at the end of the drain, just prior to the next fill. The adjustments short the next fill, if necessary, to limit the intra-peritoneal volume, add a cycle, if necessary, to use all of the available dialysis solution and will average the remaining dwell time to maximize the therapeutic benefit of the therapy in the allotted time. In another embodiment, a tidal therapy using trended patient UF data is provided.

Classifications:

International (IPC 8-9): A61M1/16 A61M1/28

B01D61/32 (Advanced/Invention);

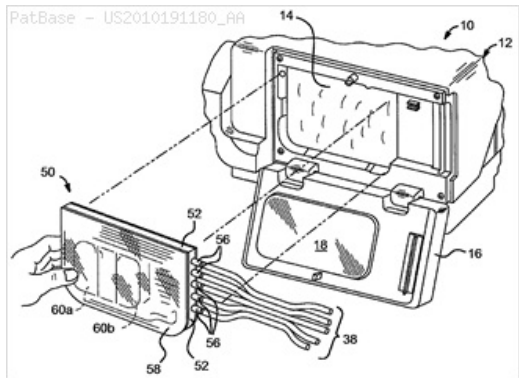
A61M1/28 (Core/Invention)

CPC: A61M1/1603 B01D61/32 A61M1/28 A61M1/282 A61M2205/3553
A61M2205/52 A61M2205/12

European: A61M1/28 K61M1/28B K61M205/35R1 K61M205/52

US: 1/1 210/141 210/143 210/321.65 210/645 210/87 604/28

604/28P 604/29 604/29P 604/31 604/31S 604/6.01 604/6.09 604/67



Family:

Publication number	Publication date	Application number	Application date
DE602010032024 D1	20160519	DE201060032024T	20100128
EP2391405 A1	20111207	EP20100704248	20100128
EP2391405 B1	20160406	EP20100704248	20100128
EP3034111 A1	20160622	EP20160155327	20100128
US2010191180 AA	20100729	US20090362240	20090129
US2012150102 AA	20120614	US20120402355	20120222
US8142649 BB	20120327	US20090362240	20090129
US9433719 BB	20160906	US20120402355	20120222
WO10088357 A1	20100805	WO2010US22367	20100128

Priority:

EP20100704248 20100128 US20090362240 20090129 WO2010US22367 20100128
US20120402355 20120222

Probable Assignee: BAXTER HEALTHCARE SA

Assignee(s): (std): BAXTER HEALTHCARE SA ; BAXTER INT ; BAXTER INT INC ; CHILDERS ROBERT W ; HOPPING PETER A

Assignee(s): BAXTER INT INC DEERFIELD ; BAXTER HEALTHCARE S A ; BAXTER INTERNATIONAL INC

Inventor(s): (std): HOPPING PETER A ; CHILDERS ROBERT W

Inventor(s): CHILDERS ROBERT W TRINITY ; HOPPING PETER A LUTZ

Agent(s): MUELLER BORE AND PARTNER PATENTANWAELTE PARTG MBB; DEE IAN MARK; POTTER CLARKSON LLP;
K AND L GATES LLP; K AND L GATES LLP ET AL

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

5) Family number: 31830136 (US2010137782A) © PatBase

Title: DEVICE FOR CARRYING A PERITONEAL DIALYSIS TREATMENT

Abstract: Source: US2010137782A [EN] The invention concerns a device and a method for a peritoneal dialysis treatment in several cycles. A cyclor (1) controlled by a processor (31) fills the abdominal cavity with dialysis fluid, and drains the abdominal cavity. A sensor (37) senses a variable related to the draining of the dialysis fluid. The draining is interrupted when the variable reaches a breakpoint at which the variable is radically changed, thereby leaving the residual volume.

Classifications:

International (IPC 8-9): A61M1/00 A61M1/28 (Advanced/Invention);

A61M1/00 A61M1/28 (Advanced/Non-invention);

A61M1/00 A61M1/28 (Core/Invention);

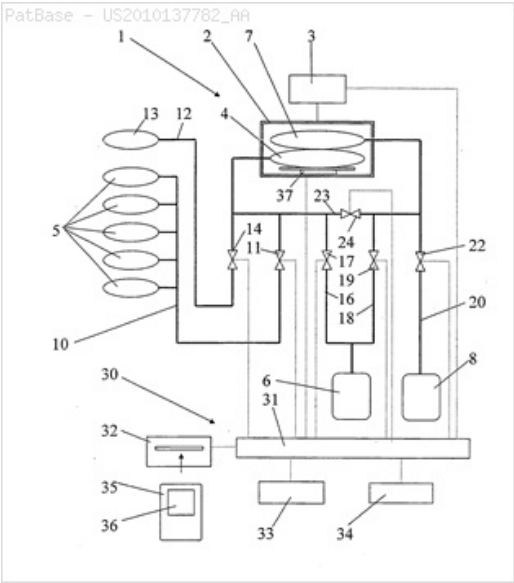
A61M (Subclass/Invention)

International (IPC 1-7): A61M1/28

CPC: A61M1/281 A61M1/1613 A61M2205/3393 A61M2205/52

A61M1/282 A61M1/28

European: A61M1/28 K61M1/16A5 K61M1/28A K61M205/33V4
K61M205/52
US: 210/645 604/28 604/28P 604/29 604/29S 604/30 604/31



Family:

Publication number	Publication date	Application number	Application date
AT386557 E	20080315	AT20040775545T	20041013
AU2004279280 AA	20050421	AU20040279280	20041013
AU2004279280 BB	20091126	AU20040279280	20041013
CA2536421 AA	20060220	CA20042536421	20041013
CA2536421 C	20120313	CA20042536421	20041013
CN1859936 A	20061108	CN200480028504	20041013
CN1859936 B	20101103	CN200480028504	20041013
DE602004011981 D1	20080403	DE200460011981T	20041013
DE602004011981 T2	20090305	DE200460011981T	20041013
EP1691863 A1	20060823	EP20040775545	20041013
EP1691863 B1	20080220	EP20040775545	20041013
ES2298818 T3	20080516	ES20040775545T	20041013
JP2007508101 T2	20070405	JP20060535305T	20041013
JP4658062 B2	20110323	JP20060535305T	20041013
KR101112117 B1	20120222	KR20067007022	20041013
KR20060128862 A	20061214	KR20067007022	20041013
SE0302698 A0	20050414	SE20030002698	20031013
SE200302698 A	20050414	SE20030002698	20031013
SE200302698 A0	20031013	SE20030002698	20031013
SE200302698 L	20050414	SE20030002698	20031013
US2010137782 AA	20100603	US20040575461	20041013
US8500676 BB	20130806	US20040575461	20041013
WO05035023 A1	20050421	WO2004SE01467	20041013

Priority:

SE20030002698 20031013 SE20030002698 20031013 US20030523334P 20031120
WO2004SE01467 20041013

Probable Assignee: GAMBRO LUNDIA AB

Assignee(s): (std): DURAND PIERRE YVES ; FRESENIUS MEDICAL CARE DE GMBH ; GAMBRO LUNDIA AB ; JANSSEN OLOF
; HOBRO STURE ; PERSSON EVA ; THELL BENGT OLOV ; BERNARD PASCAL

Assignee(s): CITICORP TRUSTEE CO LTD ; FRESENIUS MEDICAL CARE DEUTSCHLAND GMBH ; FRESENIUS MEDICAL
CARE DEUTSCHLAND GMBH

Inventor(s): (std): BENGT OLOV JANSSEN OLOF BERNAR ; BENGT OLOV THELL ; BERNARD PASCAL ; DURAND PIERRE
YVES ; ELLA PERSSON ; HOBRO STURE ; JANSSEN OLOF ; OLOF JANSSEN ; PASCAL BERNARD ;
PERSSON EVA ; PIERRE YVES DURAND ; STURE HOBRO ; THELL BENGT OLOV

Inventor(s): JANSSEN OLOF BERNARD PASCAL DURAND PIERRE YVES... ; JANSSEN OLOF BERNARD PASCAL
DURAND PIERRE YVES HOBRO STURE PERSSON EVA THELL BENGT OLOV ; JANSSEN OLOF BERNARD
PASCAL DURAND PIERRE YVES HOB

Agent(s): GRIFFITH HACK ; DAVIES COLLISON CAVE ; DAVIES COLLISON CAVE PTY LTD ; ROBIC ; SHAPIRO
COHEN ; LARSSON EVA KARIN ; FINNEGAN HENDERSON FARABOW GARRETT AND DUNNER LLP ;
JACOBSON HOLMAN PLLC

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

6) Family number: 61844898 (US2017274130A)

Title: APPARATUS FOR CARRYING OUT A TIDAL PERITONEAL DIALYSIS TREATMENT

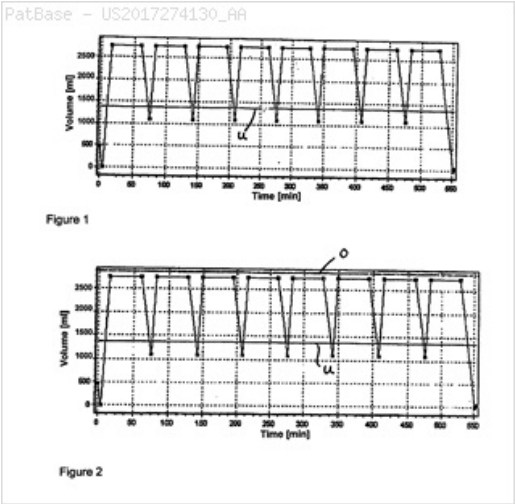
Abstract: Source: US2017274130A [EN] The present invention relates to an apparatus for carrying out a tidal peritoneal dialysis treatment of a patient, wherein the dialysis treatment comprises a sequence of cycles which each have a filling period, a dwell period and a drain period, wherein the apparatus has at least one cyclor which is suitable for filling the abdominal cavity of the patient with a specific inflow volume of fresh dialysis solution up to a reaching of a specific patient

volume in the filling period and for emptying consumed dialysis solution from the abdominal cavity of the patient up to a reaching of a specific tidal outflow target in the drain period, wherein the apparatus furthermore has at least one processor which controls the cyclers in at least one operating mode such that the drain period is ended before reaching the tidal outflow target so that a permitted residual volume remains in the abdominal cavity and then a switch is made to a filling period and in that the filling period is carried out such that the filling volume of the patient lies at a permitted patient volume above the specific patient volume on the completion of the filling period.

Classifications:

International (IPC 8-9): A61M1/28 (Advanced/Invention)

CPC: A61M1/284 A61M2205/50 A61M1/282 A61M2205/3334 A61M2205/3344



Family:

Publication number	Publication date	Application number	Application date
AR102060 AA	20170201	AR2015P102806	20150902
AU2015311252 AA	20160310	AU20150311252	20150903
CA2959701 AA	20170301	CA20152959701	20150903
CN106794296 A	20170531	CN201580047167	20150903
CO20170002154 A2	20170609	CO20170002154	20170303
DE102014013229 A1	20160310	DE201410013229	20140905
EP3188770 A1	20170712	EP20150763834	20150903
IN201717012012 A	20170707	IN201717012012	20170403
JP2017526453 T2	20170914	JP20170512386T	20150903
KR20170056589 A	20170523	KR20177009231	20150903
MX2017002861 A1	20180112	MX20170002861	20150903
TW201628663 A	20160816	TW20150128981	20150902
US2017274130 AA	20170928	US20150509011	20150903
WO16034287 A1	20160310	WO2015EP01783	20150903

Priority:

DE201410013229 20140905 WO2015EP01783 20150903

Probable Assignee: FRESenius MEDICAL CARE DE GMBH

Assignee(s): (std): FRESenius MEDICAL CARE DE GMBH ; FRESenius MEDICAL CARE DEUTSCHLAND GMBH ; PRESENIUS MEDICAL CARE DEUTSCHLAND GMBH

Assignee(s): WOLF KLAUS ; GRIESSMANN ERIK

Inventor(s): (std): ERIK GRIEMANN ; ERIK GRIESSMANN ; GRIESSMANN ERIK ; KLAUS WOLF ; WOLF KLAUS

Agent(s): DAVIES COLLISON CAVE PTY LTD; SHAPIRO COHEN LLP; CAROLINA MERCEDES DAZA MONTALVO; HERRMANN UWE; DESHIMARU TAKESHI; MATSUSHITA MITSURU; KURASAWA ICHIRO; LORENZ SEIDLER GOSSEL

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

7) Family number: 12303982 (US6074359A)

© PatBase

Title: METHOD AND APPARATUS FOR A TIDAL OSCILLATING PULSE PERITONEAL DIALYSIS

Abstract: Source: US6074359A [EN] An improved peritoneal dialysis method and system is provided. The method utilizes a tidal oscillating pulse peritoneal dialysis system. To this end, a system for providing peritoneal dialysis to a patient is provided. The system comprises a single catheter that is placed in the patient, a reservoir of dialysate having a volume greater than or equal to three liters, and a single pump for pumping the dialysate from the reservoir into and out of the patient.

Classifications:

International (IPC 8-9): A61H23/00 A61M1/14 A61M1/16 A61M1/28

A61M37/00 (Advanced/Invention);

A61H23/00 A61M1/14 A61M1/16 A61M37/00 (Advanced/Non-invention);

A61M1/14 A61M1/28 (Core/Invention);

A61H23/00 A61M1/16 A61M37/00 (Core/Non-invention)

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

CPC: A61M1/28 A61H23/00 A61M1/1694 A61M37/0092 A61M2205/12

A61M2205/3344 A61M2205/3351 A61M2205/3355 A61M2205/3393

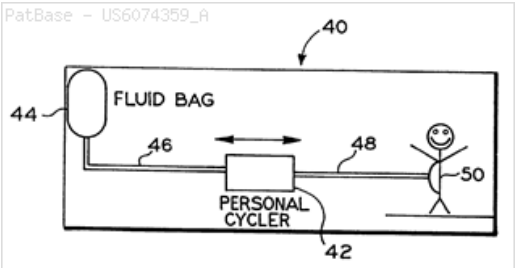
A61M1/281 A61M1/288

European: A61M1/28 K61H23/00 K61M1/16R K61M1/28A

K61M205/12 K61M205/33P10 K61M205/33P11 K61M205/33P5

K61M205/33V4 K61M37/00U

US: 210/645 604/19 604/29



Family:

Publication number	Publication date	Application number	Application date
AT206061 E	20011015	AT19950914205T	19950327
AU199521297 A1	19951030	AU19950021297	19950327
AU199881860 A1	19981105	AU19980081860	19980825
AU695256 B2	19980813	AU19950021297	19950327
AU718626 B2	20000420	AU19980081860	19980825
CA2163968 AA	19951128	CA19952163968	19950327
CA2163968 C	20060516	CA19952163968	19950327
DE69522878 D1	20011031	DE19956022878	19950327
DE69522878 T2	20020425	DE19956022878T	19950327
EP0702574 A1	19960327	EP19950914205	19950327
EP0702574 B1	20010926	EP19950914205	19950327
JP2005034671 A2	20050210	JP20040321346	20041104
JP3677045 B2	20050727	JP19950526359T	19950327
JP8512230 T2	19961224	JP19950526359T	19950327
US6074359 A	20000613	US19950420896	19950411
WO9527520 A2	19951019	WO1995US03804	19950327
WO9527520 A3	19951109	WO1995US03804	19950327

Priority:

AU19950021297 19950327 JP19950526359 19950327 US19950420896 19950411
WO1995US03804 19950327 US19940223806 19940406

Probable Assignee: BAXTER INT**Assignee(s):** (std): BAXTER INT

Assignee(s): BAXTER INT INC ; BAXTER INT INCORPORATED ; BAXTER INTERNATIONAL INC ; BAXTER INTERNATIONAL INC DEERFIELD ; BAXTER INTERNATL INC ; BAXTER INTERNATIONAL INCORPORATED ; EMERSON PAUL ; KUMANO KAZUO ; KESHAVIAH PRAKASH R ; EBBEN JAMES P

Inventor(s): (std): EBBEN JAMES P ; EBBEN JIM ; EBBEN P ; EMERSON PAUL ; KESHAVIAH PRAKASH R ; KESHAVIAH R ; KUMANO KAZUO

Inventor(s): PAUL EMERSON ; PRAKASH R KESHAVIAH ; JAMES P EBBEN ; KAZUO KUMANO

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

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

8) Family number: 62737042 (US2017368249A)

© PatBase

Title: SYSTEM AND METHOD FOR PERITONEAL DIALYSIS

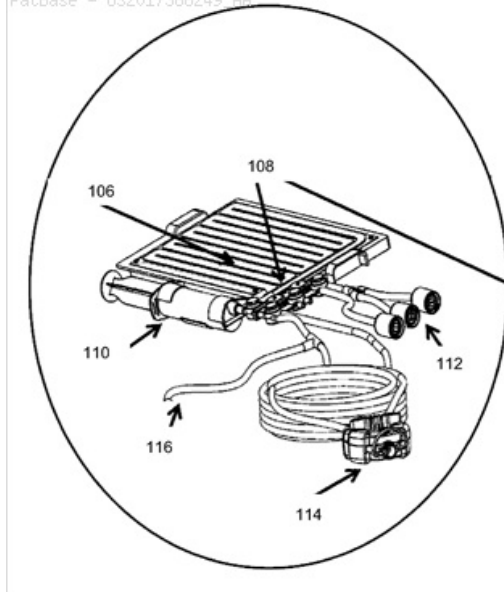
Abstract: Source: US2017368249A [EN] The invention relates to a system of performing an evidence Dialysis modality of Batch, Tidal or a combination of both. The system: isolates cavity volume changes due only to ultrafiltrate; determines the volume of a patient cavity; determines a full cavity; determines an objective time to initiate an exchange; and determines an empty cavity. One or more combination of these features provide for evidence base Fill, Dwell, and Drain sequences. The system comprises: a cassette having a heated region and a sensor region for measurements. A valve manifold supplies a patient connection with fluid. A microprocessor receives pressure measurements, controls the heated region and activates a volumetric pump to deliver or extract discrete increments of the fluid to the cassette from bags. Filtering pressure measurements to remove rapid fluctuations determines an accumulated pressure in the patient cavity. The volume of fluid in the patient cavity correlates to the accumulated pressure.

Classifications:

International (IPC 8-9): A61B5/024 A61B5/03 A61B5/08 A61M1/28 A61M1/36 (Advanced/Invention)

CPC: A61M1/282 A61M1/28 A61M2205/127 A61M2205/3306 A61M2205/3344 A61M2205/3368

PatBase - US2017368249 A8

**Family:**

Publication number	Publication date	Application number	Application date
AU2015367198 AA	20160623	AU20150367198	20151211
CA2971232 AA	20170616	CA20152971232	20151211
CN107206147 A	20170926	CN201580069640	20151211
EP3233152 A1	20171025	EP20150868768	20151211
JP2018505015 T2	20180222	JP20170550966T	20151211

KR20170102497 A	20170911	KR20177019718	20151211
SG11201705003X A1	20170728	SG20171105003	20151211
US2017368249 AA	20171228	US20150537187	20151211
WO16095026 A1	20160623	WO2015CA51312	20151211

Priority:

US20140092894P 20141217 US20150537187 20151211 WO2015CA51312 20151211

Probable Assignee: NEWSOL TECHNOLOGIES INC

Assignee(s): (std): NEWSOL TECH INC ; NEWSOL TECHNOLOGIES INC

Assignee(s): BOURNE ORSON

Inventor(s): (std): BOURNE ORSON

Agent(s): SPRUSON AND FERGUSON; MCMILLAN LLP; PFENNING MEINIG AND PARTNER MBB; MCMILLAN LLP ET AL

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

9) Family number: 52662657 (US2013006171A)

© PatBase

Title: DIALYSIS MACHINE

Abstract: Source: US2013006171A [EN] The present invention relates to a dialysis machine, in particular a peritoneal dialysis machine, wherein a dialysis treatment, in particular a peritoneal dialysis treatment, can be carried out by means of the dialysis machine in accordance with predefined and/or inputtable treatment parameters and wherein the dialysis machine has at least one setting means by means of which at least one treatment parameter can be set dynamically and/or during the treatment operation of the dialysis machine. The present invention furthermore relates to a method of operating a dialysis machine.

Classifications:

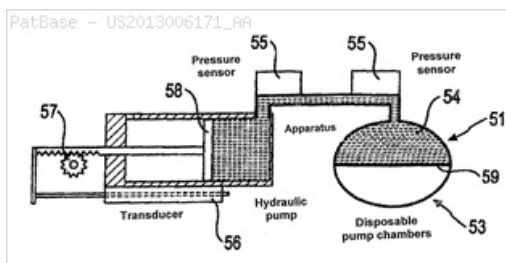
International (IPC 8-9): A61M1/16 A61M1/28 (Advanced/Invention)

CPC: A61M1/166 A61M1/282 A61M2205/12 A61M1/16 A61M1/28

A61M2205/3331 A61M2205/3368 A61M2205/50

European: A61M1/16 A61M1/28

US: 604/29



Family:

Publication number	Publication date	Application number	Application date
CN103648539 A	20140319	CN201280032654	20120627
CN103648539 B	20160413	CN201280032654	20120627
DE102011105916 A1	20130103	DE201110105916	20110629
DE102011105916 B4	20130328	DE201110105916	20110629
EP2726120 A1	20140507	EP20120729887	20120627
IN00433CN2014 A	20150703	IN2014CN00433	20140118
JP2014523303 T2	20140911	JP20140517503T	20120627
JP2017140437 A2	20170817	JP20170076680	20170407
JP6161167 B2	20170712	JP20140517503T	20120627
US2013006171 AA	20130103	US20120534514	20120627
WO13000569 A1	20130103	WO2012EP02701	20120627

Priority:

DE201110105916 20110629 JP20140517503T 20120627 US20120534514 20120627
US20110502467P 20110629 WO2012EP02701 20120627 JP20170076680 20170407

Probable Assignee: FRESenius MEDICAL CARE DEUTSCHLAND GMBH

Assignee(s): (std): GRIESMANN ERIK ; HEDMANN FRANK ; WICH HEITER JOACHIM ; GRIESSMANN ERIK ; FRESenius MEDICAL CARE DE GMBH ; FRESenius MEDICAL CARE DEUTSCHE GMBH

Assignee(s): FRESenius MEDICAL CARE DEUTSCHLAND GMBH

Inventor(s): (std): WICH HEITER JOACHIM ; JOACHIM WICH HEITER ; HEDMANN FRANK ; GRIESSMANN ERIK ; GRIESMANN ERIK ; ERIK GRIESMANN

Agent(s): LAUFHUEETTE DIETER; MAEDA AND PARTNERS; KURASAWA ICHIRO; MATSUSHITA MITSURU; DESHIMARU TAKESHI; LORENZ SEIDLER GOSSEL ET AL

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

10) Family number: 15369378 (US6228047B)

© PatBase

Title: METHOD AND APPARATUS FOR PERFORMING PERITONEAL DIALYSIS

Abstract: Source: US6228047B [EN] An automated peritoneal dialysis machine is provided which is capable of selecting and changing the composition of dialysate delivered to a patient in the course of treatment to meet specific physiological needs. The apparatus includes means for metering solutions of osmotic agent, electrolytes and other desired dialysate components from separate solution containers into mixing chamber means for combination in desired proportions. The means for delivery

of fresh dialysis fluid to a patient and for removing spent dialysis fluid from the patient includes means for monitoring intraperitoneal pressure and other conditions of the fluid in the peritoneum and electronic control means responsible to the signal of monitoring means for controlling rates of dialysate infusion and removal.

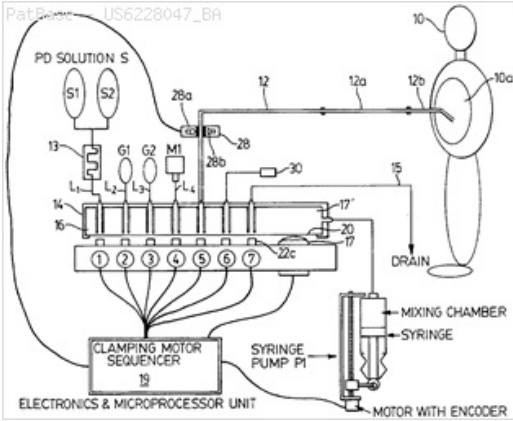
Classifications:

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

International (IPC 1-7): A61B19/00 A61M1/00 A61M1/16 A61M1/28
CPC: A61M1/281 A61M1/1656 A61M1/28 A61M2205/128
A61M2205/3344 A61M2205/3351 A61M2205/3355 A61M2205/581
A61M2205/583 A61M1/282 A61M1/1668 A61M1/167 A61M1/284

European: A61M1/16D2 A61M1/28 K61M1/28A K61M1/28B2
K61M205/12V K61M205/33P10 K61M205/33P11 K61M205/33P5
K61M205/58B K61M205/58D

US: 604/29 604/407



Family:

Publication number	Publication date	Application number	Application date
AU199885257 A1	19990222	AU19980085257	19980727
CA2211848 AA	19990128	CA19972211848	19970728
CA2211848 C	20020611	CA19972211848	19970728
CN1185022 C	20050119	CN19988009106	19980727
CN1273535 A	20001115	CN19988009106	19980727
EP0999862 A1	20000517	EP19980936046	19980727
HK1032758 A1	20050826	HK20010103319	20010514
JP2001511400 T2	20010814	JP20000504893T	19980727
JP4070953 B2	20080402	JP20000504893T	19980727
KR20010022416 A	20010315	KR20007000997	19980727
US6228047 BA	20010508	US19990468586	19991221
WO9906082 A1	19990211	WO1998CA00722	19980727

Priority:

CA19972211848 19970728 US19980122692 19980727 US19990468586 19991221
WO1998CA00722 19980727

Probable Assignee: NEWSOL TECHNOLOGIES INC

Assignee(s): (std): DADSON JOSEPH E ; 1274515 ONTARIO INC

Assignee(s): 2015892 ONTARIO INC ; JANACEK MICHAEL ; JOSEPH E DADSON ; LONG STEVE ; MINISTRY OF ATTORNEY GENERAL SHERIFF CITY OF ; LONG STEVE 2386 HAINES ROAD SUITE 200 MATHERS ; LONG STEVE AND JANACEK MICHAEL 2386 HAINES ; MINISTRY OF ATTORNEY GENERAL SHERIFF CITY OF TORON ; LONG STEVE AND JANACEK MICHAEL ; NEPHROLOGIX INC ; NEWSOL TECHNOLOGIES INC ; MINISTRY OF ATTORNEY GENERAL C O SHERIFF OF CITY OF TORONTO ; MINISTRY OF ATTORNEY GENERAL SHERIFF CITY OF TORONTO

Inventor(s): (std): JOSEPH E DADSON ; DADSON JOSEPH E

Agent(s): LANG MICHENER LLP

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY 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 UZ VN YU ZW