

Search history

Search TAC=((blood w3 filter*) near (device OR apparatus OR system OR unit)) and PD<20140626 and IC=(A61L33* OR A61M1* OR B01D37*
1: OR B01J20*) (Results 369)
Search 1 AND (FT = leukocyt* near (reduct* OR filtrat*)) (Results 28)
2:
Search 2 AND (SFT = membrane OR *polymer*) (Results 16)
3:

Title: ANTI-PATHOGEN AND ANTI-CANCER FILTERING DEVICE AND METHODS COMPRISING THE USE OF NITRIC OXIDE

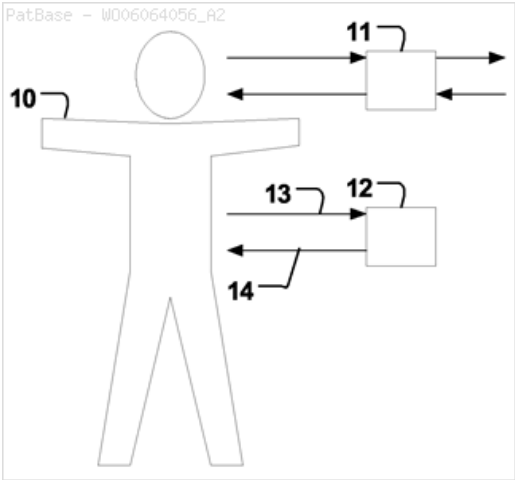
Abstract: A filtering device and method are disclosed being adapted to eliminate, inactivate and/or remove pathogenic or cancerous elements, especially microorganisms, such as bacteria, parasites, fungi, mycoplasma, protozoa and viruses, or tumour cells from body fluids or fluids getting into contact with the body, by using NO originating from the filtering device material. Exemplary embodiments comprise blood filters, or breathing gas filters. Also, uses of nitric oxide are disclosed from the treatment of various diseases, e.g. blood borne cancers, such as leukaemia.

Classifications:

International (IPC 8-9): A61L15/00 A61M1/36 (Advanced/Invention);
A61L15/00 A61M1/36 (Core/Invention)

CPC: A61M1/3633 A61M2202/0275

European: A61M1/36C4F K61M202/02M1



Family:

Publication number	Publication date	Application number	Application date
EP1681068 A1	20060719	EP20040029796	20041216
WO06064056 A2	20060622	WO2005EP56879	20051216
WO06064056 A3	20060817	WO2005EP56879	20051216

Priority:

EP20040029796 20041216 US20040636527P 20041217

Probable Assignee: NOLABS AB

Assignee(s): (std): NOLABS AB ; PETERS TOR

Inventor(s): (std): PETERS TOR

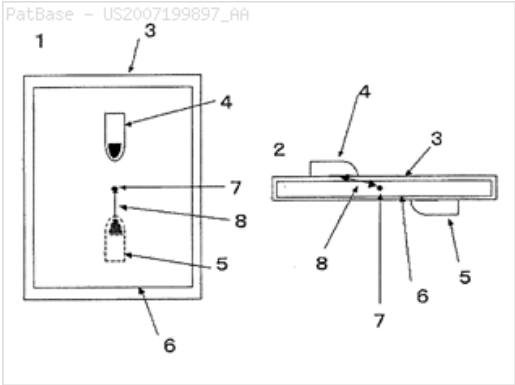
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Title: METHOD FOR FILTERING BLOOD OR BLOOD COMPONENTS USING LEUKOCYTE-REMOVING FILTER AND FILTER DEVICE

Abstract: Source: US2007199897A An object of the present invention is to provide a method and **device** for **filtering blood** or blood components which simultaneously attains 1) efficiently increasing leukocyte removal capability and 2) effectively utilizing the filtration area by preventing nonuniform flow, when blood is filtered by being fed to a leukocyte-removing filter comprising flexible containers by being pressurized using a pump or the like. The method comprises providing a leukocyte-removing filter having a thickness of 9.0 mm to 9.4 mm, an air permeability pressure drop of 300 Pa to 700 Pa, and effective filtration area of 50 cm² to 70 cm² which comprises a flat and flexible container having an inlet port and an outlet port and a sheet-like leukocyte-removing-filter material with a thickness of 8.2 mm to 8.6 mm disposed to divide the container into an inlet-port side chamber and an outlet-port side chamber, providing a pair of volume restriction boards disposed outside of the inlet port side external surface and the outlet port side external surface of the flexible container, having the distance between the volume restriction boards at the portion where the volume restriction boards facing each other sandwich the leukocyte-removing filter being in a range from [thickness of leukocyte-removing filter+0.5 mm] to [thickness of leukocyte-removing filter+2.5 mm], and filtering blood or blood components through the leukocyte-removing filter under a pressure of 30 kPa to 50 kPa while restraining expansion of the flexible container occurring during filtration by means of the volume restriction boards.

Classifications:

International (ipc 8-9): A61M1/02 A61M1/34 A61M1/36 A61M5/165 B01D29/00 B01D37/00 B01D61/00 (Advanced/Invention); A61M1/02 A61M1/34 A61M1/36 A61M5/165 B01D61/00 (Core/Invention)
CPC: A61M1/3627 B01D2325/20
European: A61M1/36C4 L01D325/20
US: 210/321.6 210/321.600S 210/321.75 210/348 210/645 210/650 210/651 210/767



Family:

Publication number	Publication date	Application number	Application date
CN101053683 A	20071017	CN200710079912	20070216
CN101053683 B	20101215	CN200710079912	20070216
JP2007244858 A2	20070927	JP20070037801	20070219
JP4986285 B2	20120725	JP20070037801	20070219
US2007199897 AA	20070830	US20070675275	20070215
US7655146 BB	20100202	US20070675275	20070215

Priority:

JP20060042225 20060220 JP20070037801 20070219

Probable Assignee: ASAHI KASEI MEDICAL CO LTD

Assignee(s): (std): ASAHI KASEI MEDICAL CO LTD

Assignee(s): ASAHI KASEI MEDICAL CO

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Inventor(s): OZEKI MAKOTO YAJIMA KENTARO

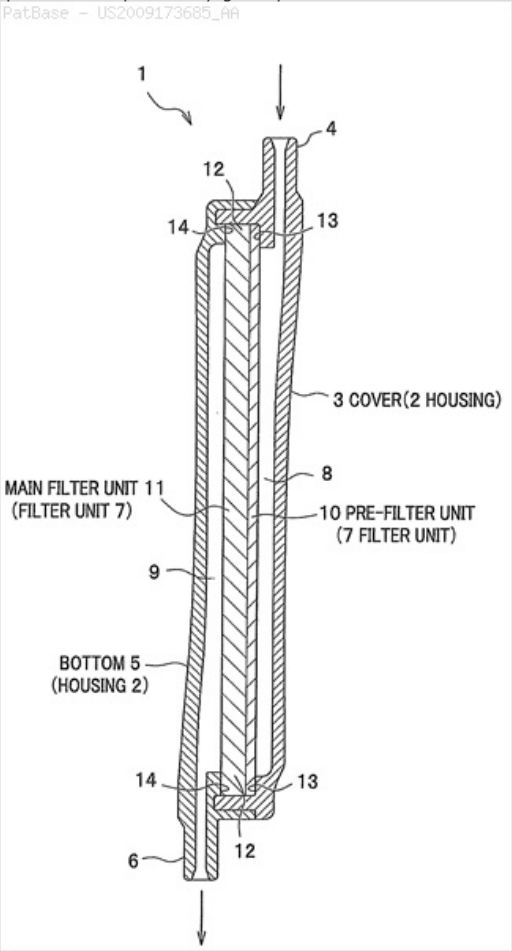
Agent(s): GREENBLUM AND BERNSTEIN PLC

Title: BLOOD TREATMENT FILTER AND BLOOD TREATMENT CIRCUIT

Abstract: Source: US2009173685A A blood treatment filter which comprises a housing including an inlet and an outlet, and a filter unit for filtering blood containing erythrocytes, platelets and leukocytes as blood cell components is provided. The filter unit comprises a main filter unit which virtually removes predetermined cell components from blood and passes the remaining blood cell components, and a pre-filter unit which is arranged at the up-stream side of the main filter and virtually does not remove blood cell components. The pre-filter unit has a permeability rate of 70 to 90 percent for micro particles having an average particle size of 6 mum which are contained in a suspension and passed by gravity.

Classifications:

International (ipc 8-9): A61M1/02 A61M1/34 B01D35/02 B01D35/06 B01D35/30 (Advanced/Invention); A61M1/02 B01D35/00 B01D35/06 B01D35/30 (Core/Invention); A61M (Subclass/Invention)
CPC: A61M1/3633 A61M1/0231 A61M1/0236 A61M1/0222
European: A61M1/02B A61M1/36C4F K61M1/02B3A
US: 210/243 210/438 210/483



Family:

Publication number	Publication date	Application number	Application date
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AU2007259677 BB	20120726	AU20070259677	20070615
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CN101460206 B	20120926	CN200780020537	20070615
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EP2055329 A4	20140416	EP20070745402	20070615
EP2055329 B1	20160309	EP20070745402	20070615
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JP4934133 B2	20120516	JP20080521276T	20070615
US2009173685 AA	20090709	US20070305076	20070615
WO07145328 A1	20071221	WO2007JP62148	20070615

Priority:

EP20070745402 20070615 JP20060168134 20060616 WO2007JP62148 20070615
JP20080521276 20070615

Probable Assignee: TERUMO KK

Assignee(s): (std): IMAI TADASHI ; MURAKOSHI MASAhide ; OHKAWARA JUNICHI ; TERUMO CORP

Assignee(s): TERUMO KABUSHIKI KAISHA ; TERUMO KK

Inventor(s): (std): TADASHI IMAI ; MASAhide MURAKOSHI ; JUNICHI OHKAWARA ; OHKAWARA JUNICHI ; MURAKOSHI MASAhide ; IMAI TADASHI

Inventor(s): IMAI TADASHI ASHIGARAKAMI GUN ; MURAKOSHI MASAhide ASHIGARAKAMI GUN ; OHKAWARA JUNICHI ASHIGARAKAMI GUN

Agent(s): PHILLIPS ORMONDE FITZPATRICK; TBK-PATENT; TBK; ISONO MICHIZO; BUCHANAN INGERSOLL AND ROONEY PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MT MW MX

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

Title: DEVICE ALLOWING SERIAL USE OF CLEAN AND ALTERNATIVE BLOOD FILTERS DURING BLOOD FILTRATION

Abstract: Source: US2009118659A A device that allows for serial (time) use of clean blood filters during the use of a heart lung machine. The device is comprised of a series of filters and a switching mechanism that allows the new filter to be placed in the blood flow pathway while at the same time removing the old (previous) filter. A clean filter is always available, and filters for specific components of blood or those able to bind and remove specific biochemicals can be used.

Classifications:

International (IPC 8-9): A61M1/34 A61M1/36 A61M37/00

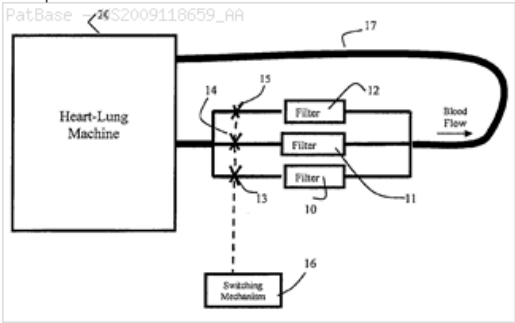
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A61M1/34 A61M37/00 (Core/Invention)

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European: A61M1/36C4F K61M1/36C10

US: 1/1 210/138 210/232 210/321.6 210/650 210/97 422/44 422/45 422/48 604/6.01 604/6.03 604/6.030P 604/6.09 604/6.090S 604/6.1 604/6.11 604/6.13



Family:

Publication number	Publication date	Application number	Application date
US2009118659 AA	20090507	US20090350379	20090108
US2013098839 AA	20130425	US20120482053	20120529
US7488302 BA	20090210	US20050907290	20050328
US8187215 BB	20120529	US20090350379	20090108
US9138525 BB	20150922	US20120482053	20120529

Priority:

US20040521301P 20040329 US20050907290 20050328 US20090350379 20090108
US20120482053 20120529

Probable Assignee: HELM JR ROBERT E

Assignee(s): (std): HELM JR ROBERT E ; HELM ROBERT ; HERINK RICHARD

Inventor(s): (std): HELM JR ROBERT E ; HERINK RICHARD ; HELM ROBERT

Agent(s): HESLIN ROTHENBERG FARLEY AND MESITI PC

Title: UNITE DE FILTRATION POURVUE D'UN COMPARTIMENT ANNEXE

Abstract: The unit (1) has an outer envelope formed of a flexible inlet sheet (2) and an outlet sheet, and filter media (5) associated to the envelope to form an inlet compartment of the fluid and an outlet compartment of filtrate. Inlet and outlet ports (10, 11) communicate with the inlet and outlet compartments. Additional inlet and outlet compartments (18, 19) are formed between the sheets, and have volume greater than 5 percentage of volume of the inlet and outlet compartments. The compartments (18, 19) communicate with the inlet or outlet compartment and the inlet or outlet ports, respectively. An independent claim is also included for a bag system, comprising a tube in communication with an inlet orifice and with fluid source.

Classifications:

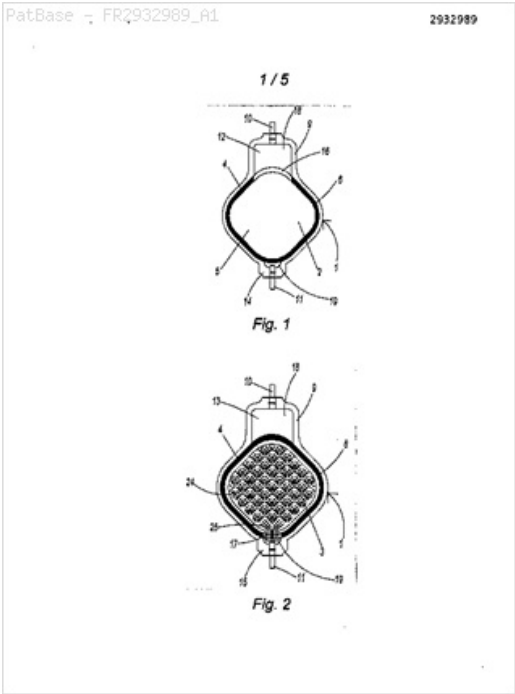
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B01D29/88 (Advanced/Invention);

A61M1/02 B01D29/01 B01D29/88 (Core/Invention)

CPC: A61M1/0209 A61M1/0218 A61M1/3636

European: A61M1/02B K61M1/02B3 K61M1/36C 4F1F



Family:

Publication number	Publication date	Application number	Application date
FR2932989 A1	20100101	FR20080003653	20080627
FR2932989 B1	20110826	FR20080003653	20080627

Priority:

FR20080003653 20080627

Probable Assignee: MACO PHARMA SA

Assignee(s): (std): MACO PHARMA SA

Assignee(s): MACO PHARMA

Inventor(s): (std): CAPON NICOLAS ; CARLU MATTHIEU ; GODARD DAVID ; LENGLET MATHIEU ; SUMIAN CHRYSLAIN ; VASSEUR LUDOVIC

Inventor(s): LUDOVIC VASSEUR ; MATHIEU LENGLET ; MATTHIEU CARLU ; NICOLAS CAPON ; CHRYSLAIN SUMIAN ; DAVID GODARD

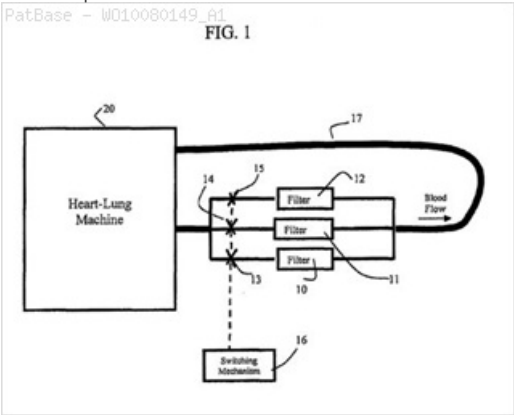
Agent(s): STRATO IP

Title: DEVICE ALLOWING SERIAL USE OF CLEAN AND ALTERNATIVE BLOOD FILTERS DURING BLOOD FILTRATION

Abstract: A device that allows for serial (time) use of clean blood filters during the use of a heart lung machine. The device is comprised of a series of filters (10, 11, 12) and a switching mechanism (16, 13, 14, 15) that allows the new filter to be placed in the blood flow pathway while at the same time removing the old (previous) filter. A clean filter is always available, and filters for specific components of blood or those able to bind and remove specific biochemicals can be used.

Classifications:

International (IPC 8-9): A61M1/36 (Advanced/Invention);
A61M1/36 (Core/Invention)
CPC: A61M1/3633 A61M1/3666 A61M2205/707 A61M2205/7581
European: A61M1/36C4F K61M1/36C10 K61M205/70F2
K61M205/75K



Family:

Publication number	Publication date	Application number	Application date
WO10080149 A1	20100715	WO2009US30383	20090108

Priority:

WO2009US30383 20090108

Probable Assignee: HELM JR ROBERT E

Assignee(s): (std): HELM JR ROBERT E

Inventor(s): (std): HELM JR ROBERT E

Agent(s): PASCARELLA DAVID A ET AL

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

Title: IMMUNOACTIVATION BLOOD PERFUSION FILTER FOR THE TREATMENT OF MALIGNANT TUMORS

Abstract: Source: US2013046225A The invention provides a way of producing a natural immunologically active state in a person by subjecting him to an apheresis procedure with bioincompatible biomaterials for about one hour. To safely control the immunological shock induced by this procedure, the person is put under general anesthesia for about six hours, including the apheresis time and at least an additional five hours thereafter. This immunological activation is useful for treating malignant tumors and diseases related to immunosuppression, such as AIDS. The invention also provides for the use of an apheresis column containing a blood perfusion filter with bioincompatible materials for treating malignant tumors and infectious diseases.

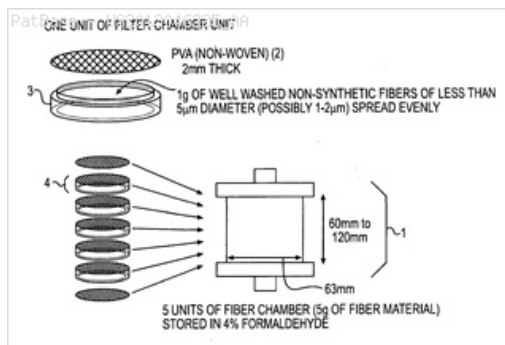
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European: A61K31/727 A61K35/14 A61M1/34P K61M1/34F6

US: 604/4.01 604/5.02 604/5.04 604/6.01 604/6.07 604/6.09



Family:

Publication number	Publication date	Application number	Application date
CA2777007 AA	20120405	CA20102777007	20101007
CN102712503 A	20121003	CN201080045456	20101007
EP2485983 A1	20120815	EP20100822700	20101007
EP2485983 A4	20150211	EP20100822700	20101007
EP2485983 B1	20170503	EP20100822700	20101007
ES2628513 T3	20170803	ES20100822700T	20101007
IN01058MN2012 A	20120831	IN2012MN01058	20120426
JP2013507379 T2	20130304	JP20120533319T	20101007
JP5822836 B2	20151124	JP20120533319T	20101007
KR101747469 B1	20170614	KR20127011680	20101007
KR20120098676 A	20120905	KR20127011680	20101007
TW201116308 A	20110516	TW20100134370	20101008
US2013046225 AA	20130221	US20100394765	20101007
US8926543 BB	20150106	US20100394765	20101007
WO11044369 A1	20110414	WO2010US51832	20101007
WO11044369 A8	20110630	WO2010US51832	20101007

Priority:

EP20100822700 20101007 US20090249867P 20091008 US20100394765 20101007
WO2010US51832 20101007

Probable Assignee: OTSUKA PHARMACEUTICAL CO LTD

Assignee(s): (std): MIYAMOTO HIROSHI ; NOSE AKO ; NOSE YUKIHIKO ; TAKABA JUNJI ; OHTA KAZUhide ; OTSUKA PHARMA CO LTD

Assignee(s): BAYLOR COLLEGE OF MEDICINE ; OTSUKA PHARMACEUTICAL CO LTD ; OTSUKA PHARMACEUTICAL CO

Inventor(s): (std): YUKIHIKO NOSE ; JUNJI TAKABA ; HIROSHI MIYAMOTO ; TAKABA JUNJI ; OHTA KAZUhide ; NOSE YUKIHIKO ; MIYAMOTO HIROSHI ; KAZUhide OHTA

Agent(s): MCCARTHY TETRAULT LLP ; POHLMAN SANDRA M ; LEHMANN MARIA ISABEL ; SAEGUSA AND PARTNERS ; FINNEGAN HENDERSON FARABOW GARRETT AND DUNNER LLP ; GARRETT ARTHUR S

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI 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

Title: BLOOD STORAGE BAG SYSTEM AND DEPLETION DEVICES WITH OXYGEN AND CARBON DIOXIDE DEPLETION CAPABILITIES

Abstract: Source: US2012024156A A blood storage system. The system has a collection bag for red blood cells; an oxygen/carbon dioxide depletion device; a storage bag for red blood cells; and tubing connecting the collection bag to the depletion device and the depletion device to the storage bag. The depletion device includes a receptacle of a solid material having an inlet and an outlet adapted to receiving and expelling a flushing gas; a plurality of hollow fibers or gas-permeable films extending within the receptacle from an entrance to an exit thereof. The hollow fibers or gas-permeable films are adapted to receiving and conveying red blood cells.

Classifications:

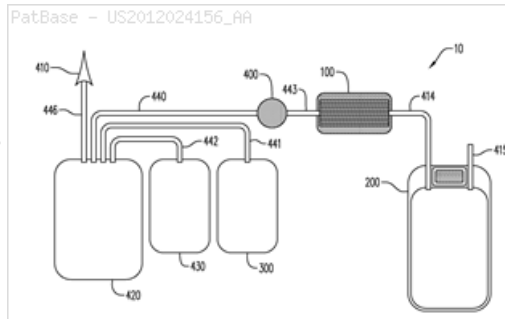
International (IPC 8-9): A01N1/02 A61J1/05 A61J1/10 A61J1/14 A61J3/00 A61K35/14 A61K35/18 A61M1/02 A61M1/18 A61M1/32 A61M1/34 A61M1/36 A61M1/38 A61P7/06 B01D11/00 B01D19/00 B01D53/22 B01D61/00 B01D61/14 B01D63/06 B01D69/00 B01D69/04 B01D71/12 B01D71/14 B01D71/26 B01D71/34 B01D71/42 B01D71/56 B01D71/68 B01J20/26 B01J20/28 B65D81/26 B65D85/00 B65D85/50 C12M1/00 C12N5/00 C12N5/02 C12N5/078 (Advanced/Invention);

A61M1/02 C12M1/42 C12N13/00 (Advanced/Non-invention)

CPC: A61J1/10 A61L2/081 A61L2/082 A61L2202/181 A61L2202/22 C12N5/0641 A01N1/0278 B01D53/22 A61M1/3633 A61M1/3679 A61M2202/0415 A61M2202/0427 A61M2202/0439 A61M1/34 A61M1/38 A01N1/0221 A01N1/0226 A61M1/0209 A61M1/0231 A61M2202/0225 A61K35/18 A61M1/342 A01N1/0236 A61M1/0272 A61M2202/0208 A61M2202/0429 A01N1/021 A01N1/0242 A01N1/0205 A61M1/0213 A61M1/0218 A61M1/0281 A01N1/0263 A01N1/0294 B01D61/147 B01D19/0031 A61M1/262 A61M1/3403

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Family:

Publication number	Publication date	Application number	Application date
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Priority:

AU20120294269	20120810	AU20160253545	20161031	EP20120822387	20120810
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Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM 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

Title: BLOOD PROCESSING FILTER, BLOOD CIRCUIT SYSTEM AND METHOD FOR CENTRIFUGATION

Abstract: Source: US2012165176A This invention provides a blood processing filter including a flexible container having an inlet and an outlet for blood, and a sheet-like filter member arranged so as to divide the inside of the flexible container into one side and another side. An annular seal part is formed at which an entire circumference that is adjacent to a peripheral portion of the filter member is integrally sealed to the flexible container. The blood processing filter is retained in a curved shape that curves as viewed from a predetermined one direction that is orthogonal to the thickness direction by the rigidity of the seal part.

Classifications:

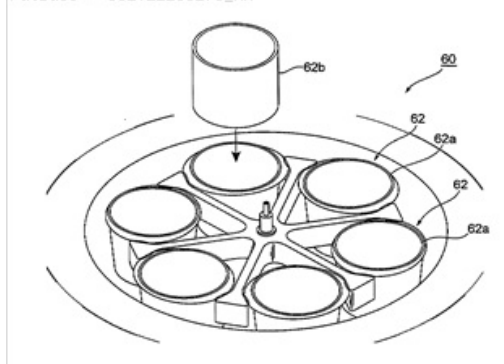
International (IPC 8-9): A61M1/02 A61M1/34 B01D35/28 B01D43/00 B04B7/16 (Advanced/Invention)

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European: A61M1/02B A61M1/34 A61M1/36Z

US: 210/450 210/450S 494/36 494/36P 494/37 494/37S

PatBase - US2012165176_AA



Family:

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Priority:

EP20110853300 20111221 US20100427297P 20101227 US20110334234 20111222
WO2011JP79712 20111221

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

Title: APPARATUS AND METHOD FOR ISOLATING **LEUKOCYTES** AND TUMOR CELLS BY **FILTRATION**

Abstract: Source: US2013323711A The present invention provides novel apparatuses and methods for isolating or recovering a subset of blood cells such as leukocytes and/or circulating tumor cells from blood samples by filtration without changing the intracellular concentration of a therapeutic agent such as an anticancer drug. Contrary to the art, the apparatuses and methods of the present invention advantageously provide cell lysates from recovered cells such as leukocytes and/or circulating tumor cells without substantial dilution of a therapeutic agent such as an anticancer drug.

Classifications:

International (IPC 8-9): A61M A61M1/02 A61M1/34 B01L B01L3/00 B01L3/14 C12M1/12 C12M1/24 C12M1/28 C12Q1/02 C12Q1/68 G01N G01N1/10 G01N1/40 G01N33/48 G01N33/49

G01N33/68 (Advanced/Invention);
A61M1/36 C12M1/26 C12Q1/02 (Advanced/Non-invention);
A61M B01L G01N (Subclass/Invention)

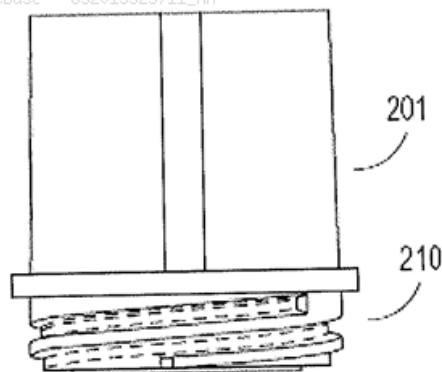
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European: A61M1/02K A61M1/34P B01L3/5021 G01N33/49C

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US: 422/533 435/2

PatBase - US2013323711_AA



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Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY NZ NA NE NG NI NL NO 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