

Diego Gonzalez Castillo

1) Family number: 28290435 (US2002130042A)

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Title: COMBINED LANCET AND ELECTROCHEMICAL ANALYTE-TESTING APPARATUS

Abstract: An apparatus for detection and quantitation of an electrochemically-detectable analyte, such as glucose, in blood or interstitial fluid includes a meter unit, a lancet and an electrochemical sensor. Of these components, the meter is preferably reusable, while the lancet and the electrochemical sensor are preferably incorporated in assemblies intended for single-use. The meter unit has a housing, within which a lancet is engaged with a mechanism for moving then lancet; a connector disposed within the housing for engaging an electrochemical sensor specific for the analyte and transmitting a signal indicative of the amount of analyte, and a display operatively-associated with a connector for displaying the amount of the analyte to user. The electrochemical sensor is adapted for detection of a particular analyte. In addition, the electrochemical sensor has an absorptive member for uptake of a sample of blood or interstitial fluid. In one version, the lancet moves from a initial position to a piercing position in which skin of the user is pierced and optionally back to a retracted position. The electrochemical sensor is disposed such that the absorptive member takes up a sample from the pierced skin of the user when it is pierced by the lancet without movement of the apparatus. In an alternative version, the lancet is a hollow cannula through which blood or interstitial fluid is transported from the puncture site to an absorbent portion of the electrochemical sensor. In either version, the apparatus provides single-step operation in which sample acquisition and analysis occur as a result of the single action of pressing the apparatus against the users skin.

Classifications:

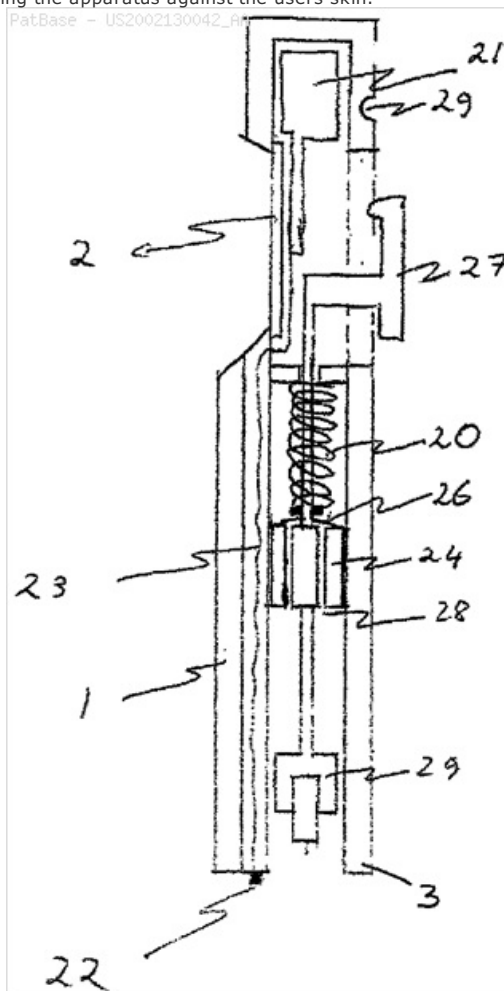
International (ipc 8-9): A61B A61B5/00 A61B5/145 A61B5/1468 A61B5/1473 A61B5/15 A61B5/151 A61B5/155 A61B5/157 G01N27/06 G01N27/28 G01N27/30 G01N27/327 G01N27/416 G01N33/48 G01N33/483 G01N33/50 G01N33/66 (Advanced/Invention); A61B5/15 (Advanced/Non-invention); A61B5/00 A61B5/145 A61B5/15 G01N27/06 G01N27/28 G01N27/30 G01N27/327 G01N27/416 G01N33/48 G01N33/483 G01N33/50 G01N33/66 (Core/Invention); A61B (Subclass/Invention)

International (ipc 1-7): A61B A61B5/00 A61B5/145 A61B5/15 C12M1/00 G01N1/00 G01N27/06 G01N27/28 G01N27/30 G01N27/327 G01N27/416 G01N33/483 G01N33/66

CPC: A61B5/1486 A61B5/150022 A61B5/150068 A61B5/150099 A61B5/150198 A61B5/150221 A61B5/150358 A61B5/150412 A61B5/150503 A61B5/150809 A61B5/150824 A61B5/15087 A61B5/150969 A61B5/15113 A61B5/15117 A61B5/15128 A61B5/15153 A61B5/15163 A61B5/157

European: A61B5/1486 A61B5/14B2

US: 204/403.01 204/403.010P 204/403.02 204/403.03 204/403.030P 204/415 600/576 600/576S 600/583 600/583S 600/584 600/584S 606/167 606/167S 606/181 606/181S 606/182 606/182S 606/184 606/184S 606/185 606/185S



Family:

Publication number	Publication date	Application number	Application date
AU2001249100 AA	20010912	AU20010249100	20010302
AU2001249100 BB	20041125	AU20010249100	20010302
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AU200149100 A5	20010912	AU20010049100	20010302
CA2401164 AA	20020830	CA20012401164	20010302
CA2401164 C	20110426	CA20012401164	20010302
CA2732195 AA	20010907	CA20012732195	20010302
CN100398064 C	20080702	CN200510084490	20010302
CN1217624 C	20050907	CN20018008490	20010302
CN1429087 A	20030709	CN20018008490	20010302
CN1739450 A	20060301	CN200510084490	20010302
CZ20022942 A3	20030813	CZ20020002942	20010302

DE60147917 D1	20130613	DE20016047917	20010302
DE60150105 D1	20161020	DE20016050105	20010302
EP1265530 A1	20021218	EP20010922283	20010302
EP1265530 B1	20130424	EP20010922283	20010302
EP2409644 A1	20120125	EP20100180238	20010302
EP2409644 B1	20160907	EP20100180238	20010302
ES2411721 T3	20130708	ES20010922283T	20010302
ES2604970 T3	20170310	ES20100180238T	20010302
HK1051957 A1	20131122	HK20030104296	20030616
HK1051957 B	20131122	HK20030104296	20030616
HK1165245 A1	20121005	HK20120105881	20120615
HK1165245 B	20171020	HK20120105881	20120615
IL151559 A0	20030410	IL20010151559	20010302
IL151559 A1	20070819	IL20010151559	20010302
IN200627 B	20070209	IN2002KN01123	20020902
JP2003524496 T2	20030819	JP20010563007T	20010302
JP4727112 B2	20110720	JP20010563007T	20010302
KR100754237 B1	20070903	KR20027011499	20010302
KR20030004355 A	20030114	KR20027011499	20010302
PL357279 A1	20040726	PL20010357279	20010302
RU2002126203 A	20040310	RU20020126203	20010302
US2002130042 AA	20020919	US20000518075	20000302
US2005011759 AA	20050120	US20030638752	20030811
US6706159 BB	20040316	US20000518075	20000302
US7378007 BB	20080527	US20030638752	20030811
WO0164105 A1	20010907	WO2001US07169	20010302
WO0164105 C2	20011025	WO2001US07169	20010302

Priority:

US20000518075	20000302	CA20012401164	20010302	CA20012732195	20010302
EP20010922283	20010302	EP20100180238	20010302	WO2001US07169	20010302
WO2001US07169	20020902	US20030638752	20030811		

Probable Assignee: CILAG GMBH INT

Assignee(s): (std): DIABETS DIAGNOSIS INC ; INVERNESS MEDICAL TECHNOLOGY I ; MOERMAN PIET ; MCALEER JEROME F ; STEINE MATTHIAS ; STIENE MATTHIAS ; DIABETES DIAGNOSTICS ; DIABETES DIAGNOSTICS INC ; INVERNESS MEDICAL TECHNOLOGY INC

Assignee(s): SUNRISE ACQUISITION CORP ; MOERMAN PIET HC ; LIFESCAN SCOTLAND LTD ; LIFESCAN IP HOLDINGS LLC ; MOERMAN PIET H C ; BANK OF AMERICA NA COLLATERAL AGENT AS ; CILAG GMBH INT ; DIABETES DIAGNOSTICS INC WALTHAM ; SELF CARE INC ; INVERNESS MEDICAL TECHNOLOGY

Inventor(s): (std): MOERMAN PIET ; MCALEER JEROME F ; STEINE MATTHIAS ; MOERMAN PIET H C ; STIENE MATTHIAS ; MOERMAN P ; MCALEER J F ; STEINE M ; MATTHIAS MOERMAN PIET H C MCAL ; P MOERMAN ; JF MCALEER ; M STEINE ; MATTHIAS STIENE

Inventor(s): MOERMAN PIET HC ; MCALEER JEROME ; MCALEER JEROME F WANTAGE ; J F MCALEER ; MATTHIAS STEINE ; JEROME F MCALEER ; PIET MOERMAN

Agent(s): FPA PATENT ATTORNEYS PTY LTD; FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; HERBERT SMITH FREEHILLS; OGILVY RENAULT LLP SENCRL SRL; MUELLER BORE AND PARTNER PATENTANWALTE PARTG MBB; MERCER CHRISTOPHER PAUL; TUNSTALL CHRISTOPHER STEPHEN; IZQUIERDO JOSE; IZQUIERDO MARIA ALICIA; CHINA PATENT AGENT HK LTD; DEACONS; REINHOLD COHN AND PARTNERS; PHILIP S JOHNSON JOHNSON AND JOHNSON

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 CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN 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 ZW

2) Family number: 30560023 (US4627445A)

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Title: GLUCOSE MEDICAL MONITORING SYSTEM

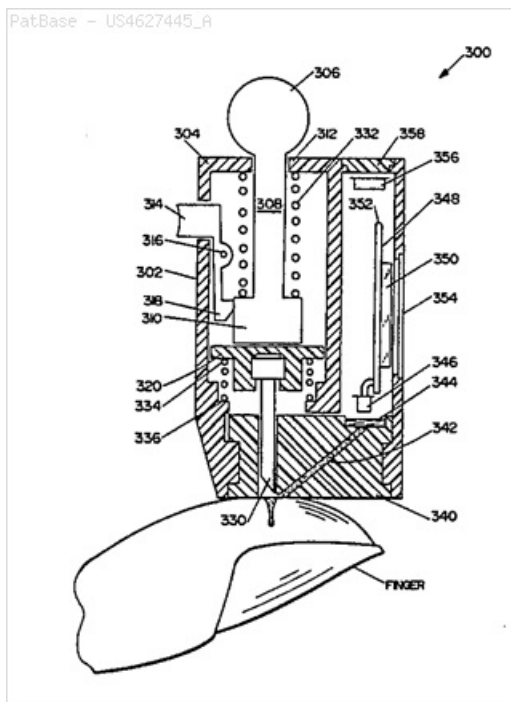
Abstract: Hand-held shirt-pocket portable medical diagnostic system for checking measurement of blood glucose, urea nitrogen, hemoglobin, blood components or other body qualities. The system includes the engagement of a disposable needle or lance probe package which carries a chemical reagent strip such as blood reacting chemistry. The system includes a pen structure having a visual readout, a microcomputer, and photosensing circuitry which measures the change of color of the blood reacting chemistry of the disposable probe package. The pen also includes a spring arrangement for actuating a needle or lance into the skin for transferring blood from a finger or other area to the chemical reagent strip. A disposable probe structure package includes configurations for transferring of the blood to the reagent strip of the reagent strip to the blood. The pen can also create a vacuum about a time period that the needle is penetrating the skin. The system includes a verification sequence of the electronics, the chemistry of an unused disposable probe package, the presence of blood sample and multiple readings to average results. The system can also be provided with provisions for storing a plurality of readings, communicating with a personal computer, and can act as an alarm and chime to indicate time periods for blood sensing.

Classifications:

International (IPC 8-9): A61B10/00 A61B5/00 A61B5/15 A61B5/151
C12Q1/54 G01N21/75 G01N21/78 G01N21/84 G01N33/48
G01N33/483 G01N33/487 G01N33/52 G01N33/66
G01N35/00 (Advanced/Invention);
A61B10/00 (Advanced/Non-invention);
A61B5/15 G01N21/75 G01N33/483 G01N33/487
G01N35/00 (Core/Invention);
A61B (Subclass/Invention)
International (IPC 1-7): A61B10/00 A61B17/32 A61B5/00 A61B5/14
G01N21/00 G01N21/75 G01N21/76 G01N21/78 G01N21/84
G01N33/48 G01N33/483 G01N33/52 G01N33/66 G01N35/00
G06F15/42

CPC: A61B5/150022 A61B5/150099 A61B5/150404 A61B5/150435
A61B5/150511 A61B5/150519 A61B5/150786 A61B5/15107
A61B5/15111 A61B5/15117 A61B5/1519 A61B5/15194
A61B5/150358 A61B5/150664 A61B5/15113 A61B5/157
A61B5/14532 A61B5/1455 A61B2562/0295 A61B5/15186

A61B2560/0252 C12Q1/54 G01N33/52 C12Q1/006 G01N27/3271
European: A61B5/1455 A61B5/145G A61B5/14B2 A61B5/151S
A61B5/157 C12Q1/54 G01N27/327B G01N33/52 K61B560/02F2B
K61B562/02S
US: 128/329R 128/632 128/633 128/637 128/770 600/322 600/367
600/368 600/583 606/182 D24/147 D24/169



Family:

Publication number	Publication date	Application number	Application date
AT86843 E	19930415	AT19860302540T	19860407
AU198656990 A1	19861105	AU19860056990	19860408
AU198777505 A1	19880224	AU19870077505	19870630
AU199173691 A1	19911003	AU19910073691	19910321
CA1277896 A1	19901218	CA19860505964	19860407
CA1308006 A1	19920929	CA19870548565	19871005
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JP61286738 A2	19861217	JP19860080956	19860408
JP6339473 A2	19941213	JP19910062121	19910326
US4627445 A	19861209	US19850720906	19850408
US4637403 A	19870120	US19850744539	19850614
US4787398 A	19881129	US19860889185	19860725
US5279294 A	19940118	US19900499085	19900326
WO8605966 A1	19861023	WO1986US00699	19860408
WO8800812 A1	19880211	WO1987US01602	19870630

Priority:

US19850720906	19850408	US19850744539	19850614	CA19860505964	19860407
EP19860302540	19860407	WO1986US00699	19860408	US19860889185	19860725
WO1987US01602	19870630	CA19870548565	19871005	US19880272011	19881116
US19900499085	19900326	CA19912036431	19910215		

Probable Assignee: DAYTON JUDSON M

Assignee(s): (std): GARID INC ; OODEIOBAIONIKUSU INC ; KASUKEEDE MEDICAL INC ; AUDIO BIONICS INC ; AUDIOBIONICS ; CASCADE MEDICAL INC

Assignee(s): CHRISTENSON PAUL E ; ANDERSON PAUL J ; AUDIOBIONICS EDEN PRAIRIE MN 55344 A MN CORP ; CARTER WALLACE INC ; DIABETES CONTROL AND CARE TECHNOLOGY INC ; DAYTON JUDSON M ; CASCADE MEDICAL INC A DE CORP ; AUDIOBIONICS EDEN PRAIRIE MN 55344 A CORP ; AUDIOBIONICS A CORP OF MN ; AUDIO BIONICS INC EDEN PRAIRIE MINN US ; KUDD ARTHUR R ; KYDD ARTHUR R C O NEOMECS ; KYDD ARTHUR R ; GARID INC 9817 VALLEY VIEW ROAD EDEN PRAIRIE MINNE ; GARCIA FERNANDO S ; HUDSON BERTRAM J ; GINNOW MERKERT HARTMUT ; LINDE DAVID E ; MERKERT HARTMUT G ; JONES RICHARD E ; JESSEN ROSS A ; GARID INC 9817 VALLEY VIEW ROAD EDEN PRAIRIE MINNESOTA 55344 A CORP OF MINNESOTA ; PROPERTY GROWTH IX MED PEN R AND D LTD ; REPUBLIC ACCEPTANCE CORP ; QUESTSTAR MEDICAL INC ; PROPERTY GROWTH IX MED PEN R AND D PARTNERSHIP A M ; PROPERTY GROWTH IX MED PEN R AND D PARTNERSHIP LTD ; WALTER BERT ; PROPERTY GROWTH IX MED PEN R AND D PARTNERSHIP A MN PARTNERSHIP LTD

Inventor(s): (std): GARCIA FERNANDO S ; GINNOW MERKERT HARTMUT ; FERNANDO S GARCIA ; HARTMUT GINNOW MERKERT ; LINDE DAVID E ; HUDSON BERTRAM J ; JESSEN ROSS A ; JONES RICHARD E ; WALTER BERT ; MERKERT HARTMUT G ; LINDE DAVID R ; PAUL J ANDERSON ; CHRISTENSON PAUL E ; DAVID E LINDE ; BERTRAM J HUDSON ; ANDERSON PAUL J

Inventor(s): BAATORAMU JIEI HADOSON ; BERUTO UORUTAA ; POORU JIEI ANDAASON ; ROSU EI JIETSUSEN ; POORU II KURISUTENSON ; RICHIIYAADO II JIYONZU ; DEBITSUTO AARU RINDE ; DEIBITSUDO II RINDO ; HAATOMATSUTO JINOOAAMAATO ; FUERUNANDO ESU GARUSHIA

Agent(s): GRIFFITH HACK ; SPRUSON AND FERGUSON ; ASPEN PHARMA PTY LTD ; SMART AND BIGGAR

Designated states: AT AU BE CF CG CH CM DE DK ES FR GA GB GR IT JP LI LU ML MR NL SE SN TD TG

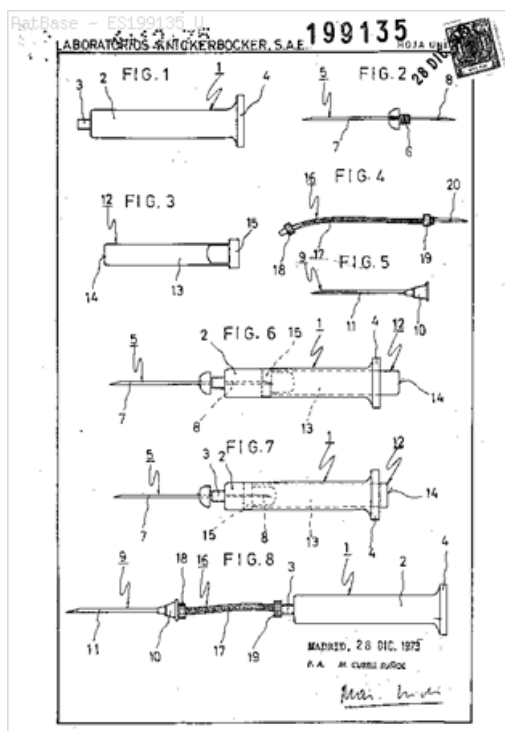
Title: DISPOSICION PARA MEDIR LA ADHESIVIDAD PLAQUETARIA.

Abstract: Source: ES199135U [ES] Disposicion para medir la adhesividad plaquetaria, caracterizada porque esta constituida en combinacion por un soporte tubular con un extremo abierto y otro extremo con racor de acoplamiento, una aguja esteril de doble punta, un tubo bajo vacio con un extremo dotado de un tapon elastico hermetico, una aguja esteril simple y un dispositivo fijador de plaquetas formado por un tubo flexible relleno de unas perlas de vidrio de peso y caracteristicas especiales, de modo que, para la obtencion de una muestra de sangre para control, se acopla la aguja doble en el soporte tubular, penetrando en el mismo una de las puntas, mientras por el otro extremo del soporte se introduce el tubo bajo vacio por su parte dotada de tapon, hasta que dicha punta pincha este tapon sin perforarlo, permitiendo este conjunto realizar una extraccion de sangre de una vena por medio de la punta exterior de la aguja, al tiempo que es empujado el tubo bajo vacio para que la aguja interior perfora el tapon y, por efecto de el vacio, aspire una cantidad de sangre que entra en el propio tubo, todo ello de manera que a continuacion se retira la aguja doble y se la sustituye por el dispositivo fijador de plaquetas acoplado tambien a la aguja simple, efectuandose otra extraccion de sangre con el objeto de ser tratada por una de las tecnicas conocidas. **Machine translation:** Arrangement for measuring the platelet adhesiveness, characterized in that it is constituted by a tubular support in combination with an open end and another end with fitting coupling, a sterile needle tip, a double tube under vacuum with one end provided with a resilient plug seal, a sterile needle and a fixative device formed by a flexible tube filling platelet glass beads and special characteristics, so that, for obtaining a blood sample for a control, double-needle engages the tubular support, penetrating the same one of the tips, while on the other end of the support tube is introduced under vacuum for its part provided Cap, until said tip Click this plug without puncturing, allowing this assembly to make an extraction of blood from a vein by means of the outer tip of the needle, while the tube is pushed under vacuum to which the inner needle to pierce the stopper, and the effect of delvacio, aspire an amount of blood entering the tube itself, all so that the needle is then withdrawn and replaces it with the fixative device of platelets also coupled to the needle simple, carrying out another blood extraction to the object to be treated by one of the known techniques.

Classifications:

International (IPC 8-9): A61B A61M (Subclass/Invention)

International (IPC 1-7): A61B A61M



Family:

Publication number	Publication date	Application number	Application date
ES199135 U	19750701	ES19730199135U	19731228
ES199135 Y	19751201	ES19730199135U	19731228

Priority:

ES19730199135U 19731228

Probable Assignee: LABORATORIOS KNICKERBOCKER S A E

Assignee(s): (std): KNICKERBOCKER S A E LAB ; LABORATORIOS KNICKERBOCKER S A E

Title: AUTOMATIC ELASTO-VALVULAR HYPODERMIC SAMPLING NEEDLE

Abstract: A novel blood-drawing device with automatically actuatable elasto-valvular mechanism or component, sensitive to pressure differential changes, attaining variable aperture sizes in the opening phase aimed to reduce mechanical hemolysis of the red blood cells and other cellular disintegration caused by high shear forces, and, achieving a normally closed position to prevent blood drip; a valve is situated between a pair of pre-formed internal chambers or cavities that separate two axially arranged sharpened cannulas; the device with a preferably transparent hub for visual indication of the functional capabilities of the device, the hub transparency being important during effective extraction of singular as well as several separate fluid samples such as venous blood collectible into one or more evacuated sample tubes, respectively, during a single venipuncture; such device packaged in sterile condition and made to be disposable after a singular use.

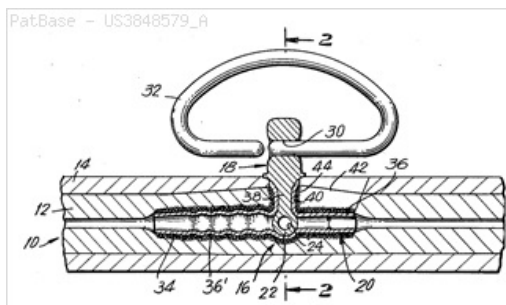
Classifications:

International (IPC 8-9): A61B5/15 A61B5/154 (Advanced/Invention);
A61B5/15 (Core/Invention)

International (IPC 1-7): A61B5/14 A61M5/32

CPC: A61B5/15003 A61B5/150221 A61B5/150404 A61B5/15048
A61B5/150488 A61B5/150496 A61B5/150511 A61B5/150519
A61B5/150732 A61B5/150946 A61B5/1545

European: A61B5/14B12 A61B5/154B A61B5/15B18B2D
A61B5/15B18B8B A61B5/15B18B8D A61B5/15B18B8F A61B5/15B20
A61B5/15B2D A61B5/15B38 A61B5/15B8D K61B5/15B18B10B
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US: 128/0.2F 600/577 600/579 604/237



Family:

Publication number	Publication date	Application number	Application date
JP50025084 A2	19750317	JP19740020618	19740222
JP53010798 B4	19780417	JP19740020618	19740222
JP934586 C3	19781130	JP19740020618	19740222
US3848579 A	19741119	US19730335419	19730223

Priority:

US19730335419 19730223

Probable Assignee:

VILLA REAL A

Assignee(s): (std):

VILLA REAL A

Assignee(s):

VILLA REAL A US

Inventor(s): (std):

VILLA REAL A

Inventor(s):

VILLA REAL A US

5) Family number: 1298079 (US3965889A)

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Title: APPARATUS FOR THE SAMPLING OF BLOOD AND THE SEPARATION OF PLASMA UNDER ANAEROBIC CONDITIONS

Abstract: Blood is withdrawn from a patient for ultimate centrifuging into plasma and erythrocytes by mounting a supple substantially non-extensible under conditions of use thermosealable walled container in a carrier, the container having a top provided with an orifice closed by a rubber washer. A needle is mounted in a hollow cap sized to receive the carrier. The needle is inserted in the vein by pressing the carrier into the cap which also causes the needle to perforate the washer. A vacuum is drawn on the carrier drawing blood into the container, the container having a medial restriction dividing the container into two equal chambers. After filling, the container is withdrawn from the cap before removal of the needle from the vein and the container is mounted in a second carrier which is closed by the cap. The blood is then centrifuged, the plasma collects in the chamber above the restriction and the erythrocytes collects in the chamber below the restriction. The container is then separated at the restriction and the separated chambers sealed on separation.

Classifications:

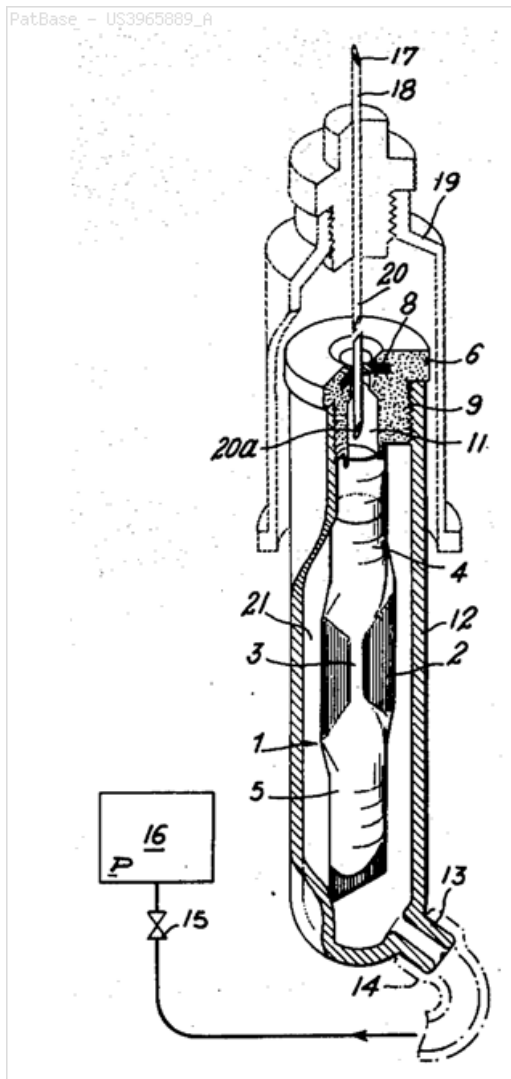
International (IPC 8-9): A61B5/15 B01L3/14 (Advanced/Invention);
A61B5/15 B01L3/14 (Core/Invention)

International (IPC 1-7): A61B10/00 A61B5/00 A61B5/14 A61M1/00
G01N33/50

CPC: Y10S494/901 A61B5/150099 A61B5/150366 A61B5/150519
A61B5/150732 B01L3/5021 A61B5/15003 A61B5/150221
A61B5/150229 A61B5/150251 A61B5/150259 A61B5/150351
A61B5/150389 A61B5/150496 A61B5/150755 A61B5/153

European: A61B5/14B12 A61B5/153 A61B5/15B12
A61B5/15B18B10D A61B5/15B18B2 A61B5/15B18B8F A61B5/15B20
A61B5/15B26 A61B5/15B2D A61B5/15B4B10 A61B5/15B8D
A61B5/15B8F A61B5/15B8L B01L3/14D B01L3/5021 K61B5/15B16
K61B5/15B8N

US: 128/2F 210/789 422/101 422/535 422/918 494/17 494/38
494/901 600/577 600/580 604/148

**Family:**

Publication number	Publication date	Application number	Application date
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BE791804 A1	19730316	BE19720124515	19721123
DE2257979 A1	19730614	DE19722257979	19721127
FR2161472 A5	19730706	FR19710042350	19711126
GB1385576 A	19750226	GB19720054727	19721127
IT975858 A	19740810	IT19720070711	19721124
US3965889 A	19760629	US19750538270	19750103

Priority:

FR19710042350 19711126 US19720308940 19721124 US19750538270 19750103

Probable Assignee: COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES

Assignee(s): (std): COMMISSARIAT ENERGIE ATOMIQUE ; SACHS CHARLES ; COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES

Assignee(s): COMMISSARIAT A L'ENERGIE ATOMIQUE ; CEA ; COMMISSARIAT A L'ENERGIE ATOMIQUE ; COMMISSARIAT A L'ENERGIE ATOMIQUE PARIS ; COMMISSARIAT A L'ENERGIE ATOMIQUE RUE DE LA FEDERATION 29 75 PARIS 15E FRANCE

Inventor(s): (std): SACHS C ; SACHS CHARLES E ; SACHS CHARLES

Inventor(s): SACHS CHARLES PARIS ; C SACHS

6) Family number: 15019653 (US5165419A)

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Title: BLOOD EXTRACTION DEVICE

Abstract: A blood extraction device has a cannula (11) the front end of which can be stuck into the vein of a patient and the rear end (11') of which stands in flow communication with the interior of a sample tubule (12) which is hermetically closed at its rear end (12'') and is closed at its front end, apart from an air vent (13, 13'). An inner tube (14) extending into the interior of the sample tubule (12) sealingly adjoins the rear end (11') of the cannula (11) and has an internal cross-section such that during the taking of blood a continuous blood column (15) is pressed from the rear end (11') of the cannula (11) into the internal tube (14) and does not break away in any position of the sample tubule (12) relative to the direction of gravity, i.e. even when the tubule is arranged beneath the cannula (12), at least so long as the cannula (11) is inserted in the vein (16).

Classifications:

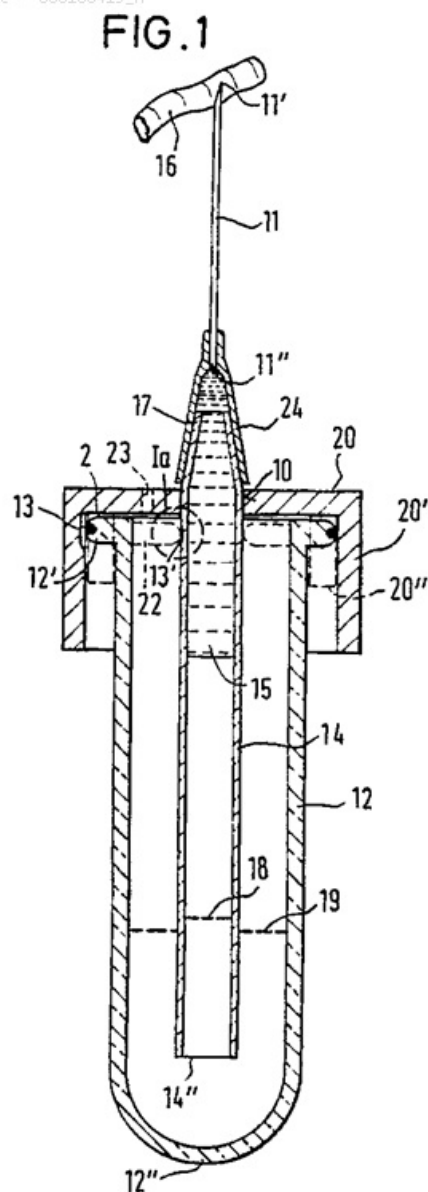
International (IPC 8-9): A61B5/15 A61B5/153

A61M5/178 (Advanced/Invention);

A61B5/15 (Core/Invention)

International (IPC 1-7): A61B5/00 A61B5/14 A61M5/178

CPC: A61B5/15003 A61B5/150213 A61B5/150236 A61B5/150351



Family:

Publication number	Publication date	Application number	Application date
AT145806 E	19961215	AT19900117952T	19900918
AU199063188 A1	19910411	AU19900063188	19900925
AU633975 B2	19930211	AU19900063188	19900925
CA2025976 AA	19910327	CA19902025976	19900921
CA2025976 C	20001128	CA19902025976	19900921
DE3932112 A1	19910404	DE19893932112	19890926
DE3932112 C2	19990923	DE19893932112	19890926
DE59010591 D1	19970116	DE19905010591	19900918
EP0420013 A1	19910403	EP19900117952	19900918
EP0420013 B1	19961204	EP19900117952	19900918
ES2095849 T3	19970301	ES19900117952T	19900918
JP2740349 B2	19980415	JP19900256802	19900926
JP3178640 A2	19910802	JP19900256802	19900926
US5165419 A	19921124	US19900587182	19900924

Priority:

DE19893932112 19890926	DE19905010591 19900918	CA19902025976 19900921
CA19902025976 19900921		

Probable Assignee: SARSTEDT W

Assignee(s): (std): BARUTAA SARUSHIYUTETSUDO ; SARSTEDT AG AND CO ; SARSTEDT AND CO AG ; SARSTEDT W ; SARSTEDT WALTER ; SARSTEDT WALTER GERAETE ; WALTER SARSTEDT GERAETE U VE ; WALTER SARSTEDT

Assignee(s): WALTER SARSTEDT GERAETE U VERBRAUCHSMATERIAL FUR M ; WALTER SARSTEDT GERAETE UND VERBRAUCHSMATERIAL FUER MEDIZIN UND WISSENSCHAFT ; WALTER SARSTEDT GERAETE UND VERBRAUCHSMATERIAL FUER MEDIZIN UND WISSENSCHAFT 5223 NUEMBRECHT DE ; WALTER SARSTEDT GERAETE UND VERBRAUCHSMATERIAL FUER MEDIZIN UND WISSENSCHAFT 51588 NUEMBRECHT DE ; WALTER SARSTEDT GERAETE U VERBRAUCHSMATERIAL F MEDIZIN U WISSENSCHAFT 5223 NUEMBRECHT DE ; WALTER SARSTEDT GERAETE U VERBRAUCHSMATERIAL F MEDIZIN U WISSENSCHAFT ; WALTER SARSTEDT GERAETE U VERBRAUCHSMATERIAL FUR MEDIZIN U WISSENSCHAFT ; WALTER SARSTEDT GERATE U VERBRAUCHSMATERIAL FUR MEDIZIN U WISSENSCHAFT ; WALTER SARSTEDT GERATE UND VERBRAUCHSMATERIAL FUR MEDIZIN UND

Inventor(s): (std):

Inventor(s):

Agent(s):

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

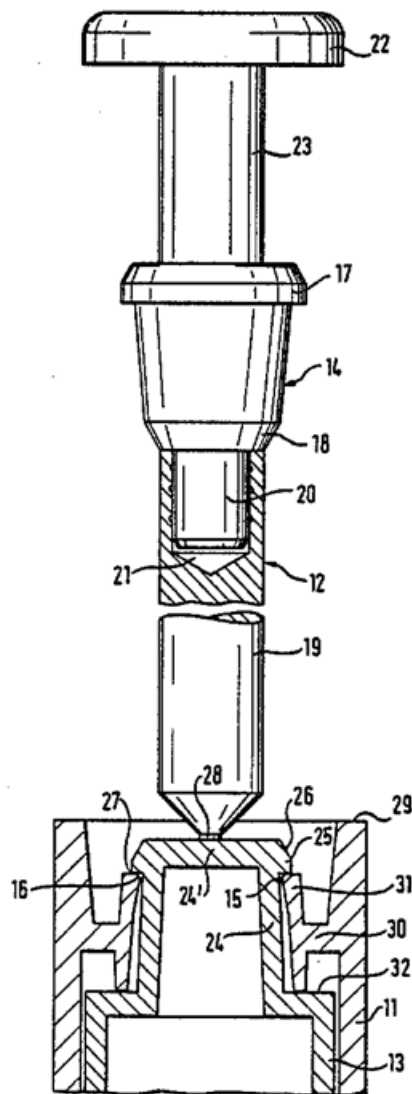
Abstract: A blood extraction device includes a sample extraction tube having an open rear end and a first sealing surface at the rear end. A piston assembly includes a piston removably housed within the tube for movement between a retracted position toward the rear end and an extended position. The piston assembly also includes a piston rod portion extending through the open rear end of the tube. The piston rod portion has a reduced diameter portion along a substantial part of its length and an enlarged portion which defines a second sealing surface for complementary mating engagement with the first sealing surface when the piston is at its extended position. The piston is locked in its fully retracted position by the engagement of a forwardly facing annular flange on the piston assembly and a rearwardly facing annular step of the tube. Preferably the piston assembly includes a frangible joint to permit at least a part of the piston rod portion to be separated from the piston after the piston is in the retracted position.

Classifications:

CPC: A61B5/15003 A61B5/150099 A61B5/150236 A61B5/150244

European

US: 128/765 600/578



Publication number	Publication date	Application number	Application date
DE3341360 A1	19850523	DE19833341360	19831115
DE3341360 C2	19870108	DE19833341360	19831115
FR2554707 A1	19850517	FR19840017375	19841114
FR2554707 B1	19881014	FR19840017375	19841114
GB2149669 A1	19850619	GB19840027845	19841102
GB2149669 B2	19870204	GB19840027845	19841102
GB8427845 A0	19841212	GB19840027845	19841102
JP1849868 C3	19940621	JP19840240370	19841114
JP5066127 B4	19930921	JP19840240370	19841114
JP60174134 A2	19850907	JP19840240370	19841114
US4722352 A	19880202	US19860874816	19860612

Priority:

DE19833341360 19831115 US19840669195 19841107 DE19888841360 19881115

Probable Assignee: SARSTEDT KUNSTSTOFF**Assignee(s):** (std): KUNSTUTOSHUTOTSUKU SHUPURITSUGU ; SARSTEDT KUNSTSTOFF ; SARSTEDT KUNSTSTOFFSPRITZGUBWE**Assignee(s):** WALTER SARSTEDT KUNSTSTOFF SPRITZGUSSWERK ; SARSTEDT KUNSTSTOFFSPRITZGUBWERK WALTER ; WALTER SARSTEDT KUNSTSTOFF SPRITZGUSSWERK 5223 NUEMBRECHT DE ; SARSTEDT KUNSTSTOFF SPRITZGUSSWE ; KUNSTUTOSHUTOTSUKU SHUPURITSUGUSUERUKU ; BARUTERU ZARUSHIYUTETSUTO KUNSTUTOSHIYUTOTSURA SUPURITSUTSUGUSU BERUKU**Inventor(s):** (std): SARSTEDT WALTER ; UARUTAA SARUSHUTETSUDO ; BUARUTAA SARUSHIYUTETSUDO**Inventor(s):** SARSTEDT WALTER 5223 NUEMBRECHT DE ; WALTER SARSTEDT**8) Family number: 19061197 (WO9528881A1)**

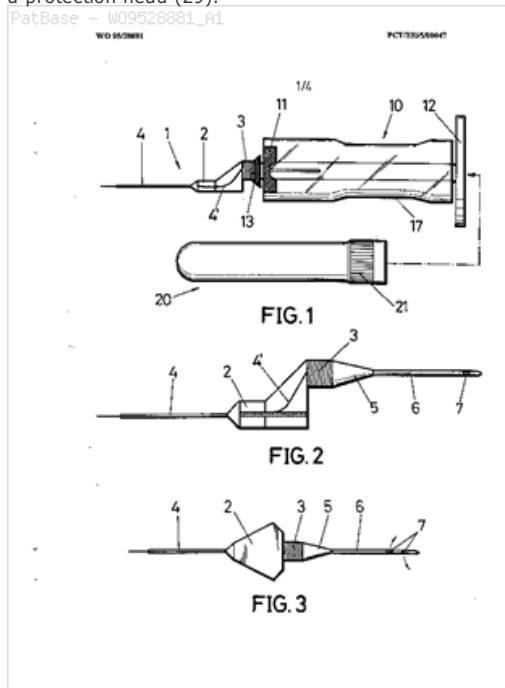
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Title: NEEDLE AND TUBE-CARRIER ASSEMBLY

Abstract: Needle and tube-carrier assembly modified for the vacuum extraction of blood and other organic fluids, comprising a bayonet-type needle (1, 1') and a tube-carrier (10 or 10'), in association with a tube (20), the needle (1) being comprised of a front bevelled needle (4), a transparent connector with side wings (2), a threaded hollow holding part (3 or 3'), a rear needle connection (5) with external rubber sleeve and a rear needle (6) with closed bevel and side openings, the tube-carrier (10) being provided with a needle connection female cone of the thread type (13) or the clip type (13'), with internal damping pad (11), tube-carrier fixing grooves (17) and rotary fixing wings (12); the tube-carrier may also be formed, in a second embodiment, as a single piece body (27) which presents at one of its extremities an element configured as a delta wing (22) from which arises a cone (24) through which passes a conduit (23) to the inside of the sample-holder tube (27), thereby saving a damping pad (28), the conduit (23) being connected to the needle (25) through which circulates the sample flow to the inside of the sample tube (30), thereby saving a protection head (29).

Classifications:**International (IPC 8-9):** A61B5/15 A61M5/14 (Advanced/Invention); A61B5/15 A61M5/14 (Core/Invention)**International (IPC 1-7):** A61B10/00 A61B5/14 A61M5/14**CPC:** A61B5/15003 A61B5/150389 A61B5/150496 A61B5/150572

A61B5/150732 A61B5/154 A61B10/0045 A61B5/150488

European: A61B5/14B12**Family:**

Publication number	Publication date	Application number	Application date
AU199522586 A1	19951116	AU19950022586	19950426
ES2078184 AA	19951201	ES19940000888	19940427
ES2078184 BA	19960701	ES19940000888	19940427
ES2092443 AA	19961116	ES19940002572	19941216
ES2092443 BA	19970801	ES19940002572	19941216
WO9528881 A1	19951102	WO1995ES00047	19950426

Priority:

ES19940000888 19940427 ES19940002572 19941216 WO1995ES00047 19950426

Probable Assignee: CABRERA DE CASTRO FRANCISCO**Assignee(s):** (std): CABRERA DE CASTRO FRANCISCO ; FRANCISCO CABRERA DE CASTRO ; GIMENA APARICIO JOSE CARLOS ; TORRICO INVERNON DOLORES ; TORRICO INVERNON MARIA DOLORES ; TORRICO INVERNON M DOLORES ; JOSE CARLOS GIMENA APARICIO ; MARIA DOLORES TORRICO INVERNON**Inventor(s):** (std): APARICIO JOSE CARLOS GIMENA ; INVERNON MARIA DOLORES TORRICO ; CASTRO FRANCISCO CABRERA DE ; TORRICO INVERNON DOLORES ; GIMENA APARICIO JOSE CARLOS ; TORRICO INVERNON MARIA DOLORES ; CABRERA DE CASTRO FRANCISCO ; TORRICO INVERNON M DOLORES**Inventor(s):** FRANCISCO CABRERA DE CASTRO ; JOSE CARLOS GIMENA APARICIO ; MARIA DOLORES TORRICO INVERNON**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 US UZ VN

Title: BLOOD EXTRACTION DEVICE

Abstract: A blood extraction device includes a hollow, cylindrical receptacle which is open at one end with a double-ended hollow needle at its other end, into which an evacuated blood sample tube is inserted. The blood sample tube is closed by means of a screw-attachment cap, whereby the cap retains a sealing membrane against the blood sample tube in order to close it tightly. A device for evacuation of blood sample tubes is provided. A second needle may be provided at the closed end of the receptacle, via which needle the inserted blood sample tube may be connected with a suction line, which is formed, in one embodiment, by a compressible elastic balloon and a valve.

Classifications:

International (IPC 8-9): A61B5/15 A61B5/154 A61M1/02

A61M5/178 (Advanced/Invention);

A61B5/15 A61M1/02 A61M5/178 (Core/Invention)

International (IPC 1-7): A61B5/14 A61M1/02 A61M5/18 B01L3/02

CPC: A61B5/15003 A61B5/150099 A61B5/150221 A61B5/150229

A61B5/150351 A61B5/150389 A61B5/150496 A61B5/150732

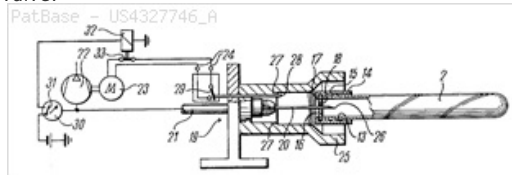
A61B5/150473 A61B5/150572 A61B5/150748 A61B5/150213

A61B5/150396 B01L3/50825 B01L2200/0689 B01L2300/044

A61B5/154

European: A61B5/14B12

US: 128/764 600/577



Family:

Publication number	Publication date	Application number	Application date
BR8005820 A	19810519	BR19800005820	19800911
DE2908817 A1	19800911	DE19792908817	19790307
DE2946660 A1	19810527	DE19792946660	19791119
DE2946680 A1	19810527	DE19792946680	19791120
DE3029886 A1	19820422	DE19803029886	19800807
EP0017728 A2	19801029	EP19800100830	19800220
EP0017728 A3	19801126	EP19800100830	19800220
EP0029126 A1	19810527	EP19800106367	19801020
EP0045863 A2	19820217	EP19810105644	19810718
EP0045863 A3	19820526	EP19810105644	19810718
JP55125849 A2	19800929	JP19800028551	19800306
JP56089266 A2	19810720	JP19800164004	19801120
JP57055155 A2	19820401	JP19810123950	19810807
US4327746 A	19820504	US19800127709	19800306
US4333478 A	19820608	US19800196721	19801014

Priority:

DE19792908817 19790307

DE19792946660 19791119

DE19792946680 19791120

DE19803029886 19800807

Probable Assignee: FEASTER WILLIAM W

Assignee(s): (std): TSUEE AA GURAINERU UNTO SHIEEN ; GREINER AND SOEHNE C A

Assignee(s): FEASTER WILLIAM W ; TSUEE AA GURAINERU UNTO SHIEENE GMBH UNTO CO ; CA GREINER AND SOHNE GMBH AND CO A GERMAN CORP KG ; CA GREINER AND SOHNE GMBH AND CO KG ; CA GREINER U SOEHNE GMBH AND CO KG ; C A GREINER AND SOEHNE GMBH AND CO KG ; C A GREINER AND SOHNE GMBH AND CO KG ; C A GREINER UND SOEHNE GMBH AND CO KG ; C A GREINER UND SOHNE GMBH AND CO KG ; CA GREINER AND SOEHNE GMBH AND CO KG ; CA GREINER AND SOHNE GMBH

Inventor(s): (std): FEASTER WILLIAM ; KRIEG KARL ; FEASTER WILLIAM W ; KAARU KURIIGU ; FEASTER W ; KRIEG K ; URIAMU UARUDOTSUKU FUIISUTAA ; URIAMU DABURIYUU FUIISUTAA ; FEASTER WILLIAM WARDOCK

Inventor(s): WARDOCK FEASTER WILLIAM

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

10) Family number: 29474306 (US2003065277A)

Title: METHOD AND APPARATUS FOR MEASURING FACTORS IN MAMMARY FLUIDS

Abstract: The present invention relates generally to breast fluid aspirators, and more specifically to an apparatus, a system, and a method for determining the risk of breast disease in a biological sample obtained for the breast by means of a breast fluid aspirator.

Classifications:

International (IPC 8-9): A61B10/00 A61B5/00 A61K49/00 A61M1/06

C12Q1/68 G01N33/50 G01N33/53 G01N33/574 G01N33/82

G01N37/00 (Advanced/Invention);

A61B10/00 A61M1/06 G01N37/00 (Advanced/Non-invention)

International (IPC 1-7): A61B5/00 A61M1/06 A61M31/00 C12Q1/68

G01N33/48 G01N33/53

CPC: A61M1/064 G01N33/5088 A61B10/0045 A61K49/0004

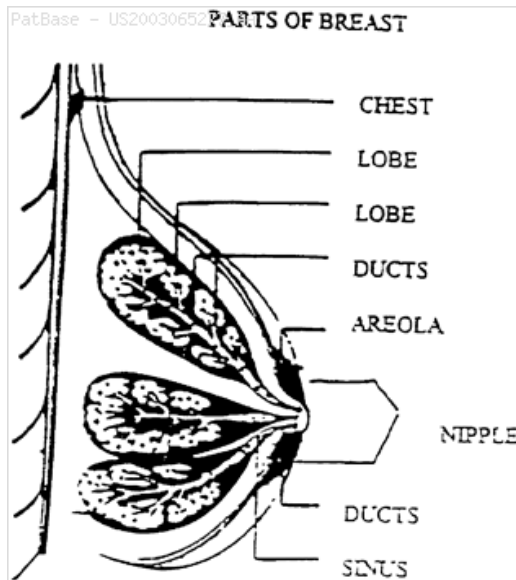
A61M1/06 G01N33/53 G01N33/57415 G01N33/82

European: A61K49/00H G01N33/50D2J4 G01N33/53 G01N33/574C4

G01N33/82 K61B10/00L K61M1/06

US: 435/7.23 600/573 600/573P 600/584 604/500 604/500P 604/514

604/514S 604/74

**Family:**

Publication number	Publication date	Application number	Application date
AU200029717 A1	20000807	AU20000029717	20000121
AU200029717 A5	20000807	AU20000029717	20000121
US2003065277 AA	20030403	US20020208364	20020729
US2003149421 AA	20030807	US20030365721	20030211
US2006079806 AA	20060413	US20050134056	20050520
US6471660 BA	20021029	US20000488905	20000121
US6517513 BA	20030211	US20000488893	20000121
WO0043550 A2	20000727	WO2000US01781	20000121

Priority:

US19990116815P 19990121	US20000488893 20000121	US20000488905 20000121
WO2000US01781 20000121	US20020208364 20020729	US20030365721 20030211
US20050134056 20050520		

Probable Assignee: HHC PREFERRED LLC**Assignee(s):** (std): COVINGTON CHANDICE ; COVINGTON CHANDIS ; UNIV WAYNE STATE ; NEOMATRIX LLC**Assignee(s):** WAYNE STATE UNIV ; NEOMATRIX INC ; WAYNE STATE UNIVERSITY ; MORTON KEVIN ; ROSE ROBBIE ; HALO HEALTHCARE INC ; HHC PREFERRED LLC ; JOHNSON AND JOHNSON DEVELOPMENT CORP**Inventor(s):** (std): MORTON KEVIN ; COVINGTON CHANDICE ; COVINGTON CHANDIS**Inventor(s):** CHANDIS COVINGTON**Agent(s):** KNOBBE MARTENS OLSON AND BEAR LLP**Designated states:** AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX 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 ZW