

Search history

Search PN=(WO2017118308) (Results 1)

1:

Search [SP]: 1. a safe syringe, comprising: a barrel (1) having a barrel body (11), an accommodating chamber (12), a seat mounting hole (13) and a seat clamping slot (14) a needle seat (20) having a seat body (21) mounted in the seat mounting hole (13) of the barrel (1), a needle hole (22), a hook rod (24), a linkage deformation portion (25) connected to the hook rod (24), and a barrel clamping portion (26) connected to the linkage deformation portion (25), linked thereby and capable of being clamped into the seat clamping slot (14) of the barrel (1) and a plunger (3) having a rod body (31), and a hook insertion hole (41) which is capable of being sleeved with the hook rod (24) of the needle seat (20) and compressing the linkage deformation portion (25) for elastic deformation such that the barrel clamping portion (26) of the needle seat (20) is not clamped into the seat clamping slot (14) of the barrel (1), the hook insertion hole (41) being capable of hooking the hook rod (24) of the needle seat (20) to move the needle seat (20).2. the safe syringe according to claim 1, wherein the needle seat (20) has a recessed chamber (27) which is communicated with the needle hole (22) and the linkage deformation portion (25).3. the safe syringe according to claim 2, wherein the needle seat (20) has a flow guiding surface (212) connected to the recessed chamber (27).4. the safe syringe according to claim 1, wherein the needle seat (20) has an internally retracted surface (211) corresponding to the linkage deformation portion (25).5. the safe syringe according to claim 1, wherein a vertical distance (l1) from a centerline of the needle seat (20) to an outer edge of the hook rod (24) is smaller than a vertical distance (l2) from the centerline of the needle seat (20) to an outer edge of the linkage deformation portion (25).6. the safe syringe according to claim 1, wherein the barrel clamping portion (26) is connected with the linkage deformation portion (25) by extending a certain length.7. the safe syringe according to claim 1, further comprising a sealing ring (r) arranged between the barrel (1) and the needle seat (20).8. the safe syringe according to claim 1, wherein the barrel (1) has a main barrel (10) and a front sleeve (50) sleeved on the main barrel (10).9. the safe syringe according to claim 8, wherein toothed structures (51, 16) are arranged on corresponding end faces of the front sleeve (50) and the main barrel (10), and the toothed structure (51) on the end face of the front sleeve (50) is engaged with the toothed structure (16) on the end face of the main barrel (10).10. the safe syringe according to claim 8, further comprising a sealing ring (r) arranged between the front sleeve (50) and the seat body (21) of the needle seat (20).11. the safe syringe according to claim 1, wherein the barrel (1) has a counterbore (15), and the needle seat (20) has a seat shoulder (23) cooperatively positioned in the counterbore (15) of the barrel (1). (Results 547)

Search [SP]: field of the invention[0001] the invention relates to a medical device and particularly to a safe syringe.background of the invention[0002] a conventional safe syringe, for example, in us patent publication us20060106339, still has the problems of uncertainty in fixing and pullback of a needle seat as well as a larger amount of liquid medicine residue.[0003] accordingly, the disadvantages of the known safe syringe are yet to be improved.summary of the invention[0004] in view of the above problems, a main object of the invention is to provide a safe syringe which can allow stable positioning of a needle seat, facilitate quick pullback of the needle seat and effectively reduce liquid medicine residue.[0005] to achieve the above object, the invention provides a safe syringe, comprising: a barrel having a barrel body, an accommodating chamber, a seat mounting hole and a seat clamping slot a needle seat having a seat body mounted in the seat mounting hole of the barrel, a needle hole, a hook rod, a linkage deformation portion connected to the hook rod, and a barrel clamping portion connected to the linkage deformation portion, linked thereby and capable of being clamped into the seat clamping slot of the barrel and a plunger having a rod body, and a hook insertion hole which is capable of being sleeved with the hook rod of the needle seat and compressing the linkage deformation portion for elastic deformation such that the barrel clamping portion of the needle seat is not clamped into the seat clamping slot of the barrel, wherein the hook insertion hole is capable of hooking the hook rod of the needle seat to move the needle seat.[0006] the needle seat has a recessed chamber which is communicated with the needle hole and the linkage deformation portion.[0007] the needle seat has a flow guiding surface connected to the recessed chamber.[0008] the needle seat has an internally retracted surface corresponding to the linkage deformation portion.[0009] a vertical distance l1 from a centerline of the needle seat to an outer edge of the hook rod is smaller than a vertical distance l2 from the centerline of the needle seat to an outer edge of the linkage deformation portion.[0010] the barrel clamping portion is connected with the linkage deformation portion by extending a certain length.[0011] the safe syringe further comprises a sealing ring r arranged between the barrel and the needle seat.[0012] the barrel has a main barrel and a front sleeve sleeved on the main barrel.[0013] as a further improvement of the invention, toothed structures are arranged on corresponding end faces of the front sleeve and the main barrel, and the toothed structure on the end face of the front sleeve is engaged with the toothed structure on the end face of the main barrel. rotation between the front sleeve and the main barrel can be prevented.[0014] the safe syringe further comprises a sealing ring r arranged between the front sleeve and the seat body of the needle seat.[0015] the barrel has a counterbore, and the needle seat has a seat shoulder cooperatively positioned in the counterbore of the barrel.[0016] by employing the above technical solutions, the safe syringe provided by the invention can indeed allow stable positioning of the needle seat, facilitate quick pullback of the needle seat and effectively reduce liquid medicine residue.brief description of the drawings[0017] fig. 1 is a perspective view of one preferred embodiment of the invention[0018] fig. 2 is a sectional view showing one operating state of one preferred embodiment of the invention[0019] fig. 3 is a sectional view showing another operating state of one preferred embodiment of the invention[0020] fig. 4 is a perspective view of a needle seat of one preferred embodiment of the invention[0021] fig. 5 is a perspective view of another preferred embodiment of the invention[0022] fig. 6 is a sectional view showing one operating state of another preferred embodiment of the invention[0023] fig. 7 is a sectional view showing another operating state of another preferred embodiment of the invention[0024] fig. 8 is a perspective view of a needle seat of another preferred embodiment of the invention[0025] fig. 9 is a perspective view of still another preferred embodiment of the invention[0026] fig. 10 is a sectional view showing one operating state of still another preferred embodiment of the invention[0027] fig. 11 is a sectional view showing another operating state of still another preferred embodiment of the invention[0028] fig. 12 is a perspective view of a needle seat of still another preferred embodiment of the invention[0029] fig. 13 is a perspective view of still further preferred embodiment of the invention[0030] fig. 14 is a sectional view showing one operating state of still further preferred embodiment of the invention[0031] fig. 15 is a sectional view showing another operating state of still further preferred embodiment of the invention[0032] fig. 16 is a perspective view of a needle seat of still further preferred embodiment of the invention[0033] fig. 17 is a side view of a front sleeve of still further preferred embodiment of the invention[0034] fig. 18 is a front view of a front sleeve of still further preferred embodiment of the invention and[0035] fig. 19 is a side view of a main barrel of still further preferred embodiment of the invention.detailed description of the invention[0036] the following embodiments will be listed with reference to the accompanying drawings to describe the structure and efficacy of the invention in detail. [0037] the applicant first illustrates here that all adjectives related to directionality, such as inner, outer, upper and lower, which are mentioned throughout the description, are based on the directions in the drawings of the invention.[0038] the technical contents and features of the invention will be described below in detail by the listed embodiments in conjunction with the accompanying drawings.[0039] as shown in figs. 1 to 4, a safe syringe according to one preferred embodiment of the invention comprises the following components.[0040] in this embodiment, a main barrel 10 alone can form a barrel 1 i.e. in a broad sense, the safe syringe of the invention comprises a barrel 1 having a main barrel 10.[0041] the main barrel 10 has a barrel body 11, an accommodating chamber 12 communicated with a seat mounting hole 13, a seat clamping slot 14 located at an inner edge of the seat mounting hole 13, and a counterbore 15 arranged between the accommodating chamber 12 and the seat clamping slot 14.[0042] a needle seat 20 has a seat body 21 mounted in the seat mounting hole 13 of the main barrel 10, a needle hole 22, a seat shoulder 23 cooperatively positioned in the counterbore 15 of the barrel 1, a hook rod 24 having a preferred slightly tapered rod body, a linkage deformation portion 25 in the shape of a convex arc-shaped sheet and connected to the hook rod 24, and a barrel clamping portion 26 connected to the linkage deformation portion 25, linked thereby and capable of being clamped into the seat clamping slot 14 of the barrel 1.[0043] the needle seat 20 also has an internally retracted surface 211 correspondingly cooperating with the linkage deformation portion 25 i.e. a slightly excavated surface is formed at a position of the seat body 21 and/or the hook rod 24 corresponding to the linkage deformation portion 25 to provide the linkage deformation portion 25 with more deformation space.[0044] the needle seat 20 also has a recessed chamber 27 opened between the needle hole 22 and the linkage deformation portion 25. the needle seat 20 also has an annular groove 28 which can be equipped with a sealing ring r for sealing between the barrel 1 and the needle seat 20.[0045] the needle seat 20 also has a flow guiding surface 212 connected to the recessed chamber 27, the flow guiding surface 212 is also connected to the internally retracted surface 211, and the flow guiding surface can allow liquid medicine to more easily flow to the recessed chamber 27.[0046] in addition, the other end of the barrel clamping portion 26 is also connected to the seat body 21 of the needle seat.[0047] in this embodiment, the needle seat 20 is equipped with a needle n in the needle hole 22 thereof. [0048] in this embodiment, a vertical distance l1 from a centerline of the needle seat 20 to an outer edge of the hook rod 24 is smaller than a vertical distance l2 from the centerline of the needle seat 20 to an outer edge of the linkage deformation portion 25.[0049] a plunger 3 has a push rod 30 with a rod body 31, and a sealing plug 40 connected to the rod body 31 of the push rod 30.[0050] the sealing plug 40 has a hook insertion hole 41 which can be sleeved with the hook rod 24 of the needle seat 20 and compress the linkage deformation portion 25 for elastic deformation such that the barrel clamping portion 26 of the needle seat 20 is not clamped into the seat clamping slot 14 (Results 18)

Search [SP]: safe syringethe invention relates to a safe syringe comprising a barrel, a needle seat and a plunger, wherein the needle seat has a hook rod, a linkage deformation portion and a barrel clamping portion and the plunger has a rod body, and a hook insertion hole which can

be sleeved with the hook rod of the needle seat and compress the linkage deformation portion for elastic deformation such that the barrel clamping portion of the needle seat is not clamped into the seat clamping slot of the barrel, and the hook insertion hole can hook the hook rod of the needle seat to move the needle seat. the safe syringe can allow stable positioning and quick pullback of the needle seat and effectively reduce liquid medicine residue. (Results 0)

Search 5: [SP]: [0017] fig. 1 is a perspective view of one preferred embodiment of the invention[0018] fig. 2 is a sectional view showing one operating state of one preferred embodiment of the invention[0019] fig. 3 is a sectional view showing another operating state of one preferred embodiment of the invention[0020] fig. 4 is a perspective view of a needle seat of one preferred embodiment of the invention[0021] fig. 5 is a perspective view of another preferred embodiment of the invention[0022] fig. 6 is a sectional view showing one operating state of another preferred embodiment of the invention[0023] fig. 7 is a sectional view showing another operating state of another preferred embodiment of the invention[0024] fig. 8 is a perspective view of a needle seat of another preferred embodiment of the invention[0025] fig. 9 is a perspective view of still another preferred embodiment of the invention[0026] fig. 10 is a sectional view showing one operating state of still another preferred embodiment of the invention[0027] fig. 11 is a sectional view showing another operating state of still another preferred embodiment of the invention[0028] fig. 12 is a perspective view of a needle seat of still another preferred embodiment of the invention[0029] fig. 13 is a perspective view of still further preferred embodiment of the invention[0030] fig. 14 is a sectional view showing one operating state of still further preferred embodiment of the invention[0031] fig. 15 is a sectional view showing another operating state of still further preferred embodiment of the invention[0032] fig. 16 is a perspective view of a needle seat of still further preferred embodiment of the invention[0033] fig. 17 is a side view of a front sleeve of still further preferred embodiment of the invention[0034] fig. 18 is a front view of a front sleeve of still further preferred embodiment of the invention and[0035] fig. 19 is a side view of a main barrel of still further preferred embodiment of the invention. (Results 547)

Search 2 AND 3 (Results 1)

6:

Search 3 AND 5 (Results 2)

7:

Search 6 AND 7 (Results 1)

8:

Search 2 AND 5 (Results 14)

9:

1) Family number: 43218014 (US2009118639A)

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Title: ACTIVE STYLET SAFETY SHIELD

Abstract: A bone needle assembly has a cannula and a stylet including a shaft received in a cannula shaft. A stylet safety shield is carried by the stylet to cover a sharp tip of the stylet shaft when removed from the cannula shaft after the bone is penetrated. The stylet includes a shield release device that moves the shield somewhat out of a handle member of the stylet when the stylet is released from the cannula, so that the safety shield can be more easily grasped.

Classifications:

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

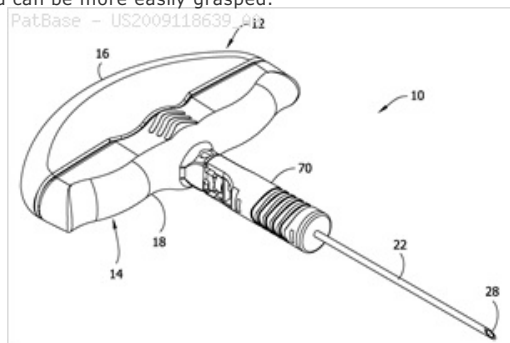
A61B5/00 (Advanced/Invention);

A61B10/02 (Core/Invention)

CPC: A61B2090/034 A61B2090/0801 A61B10/025

European: A61B10/02P4 K61B19/30F2 K61B19/48B

US: 600/562 600/567 600/567P 600/573



Family:

Publication number	Publication date	Application number	Application date
US2009118639 AA	20090507	US20070933864	20071101
US8357104 BB	20130122	US20070933864	20071101

Priority:

US20070933864 20071101

Probable Assignee: KPR US LLC

Assignee(s): (std): MOOS KIMBERLY A ; SWISHER DAVID RORK ; TYCO HEALTHCARE ; COVIDEN LP

Assignee(s): COVIDIEN LP ; KPR US LLC ; TYCO HEALTHCARE GROUP LP

Inventor(s): (std): MOOS KIMBERLY A ; SWISHER DAVID RORK

Agent(s): TYCO HEALTHCARE EDWARD S JARMOLOWICZ; LISA E

2) Family number: 66345054 (US2019038847A)

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Title: SAFE SYRINGE

Abstract: The invention relates to a Safe Syringe comprising a barrel, a needle seat and a plunger, wherein the needle seat has a hook rod, a linkage deformation portion and a barrel clamping portion; and the plunger has a rod body, and a hook insertion hole which can be sleeved with the hook rod of the needle seat and compress the linkage deformation portion for elastic deformation such that the barrel clamping portion of the needle seat is not clamped into the seat clamping slot of the barrel, and the hook insertion hole can hook the hook rod of the needle seat to move the needle seat. The Safe Syringe can allow stable positioning and quick pullback of the needle seat and effectively reduce liquid medicine residue.

Classifications:

International (IPC 8-9): A61M A61M5/178 A61M5/315 A61M5/32

A61M5/34 A61M5/50 (Advanced/Invention)

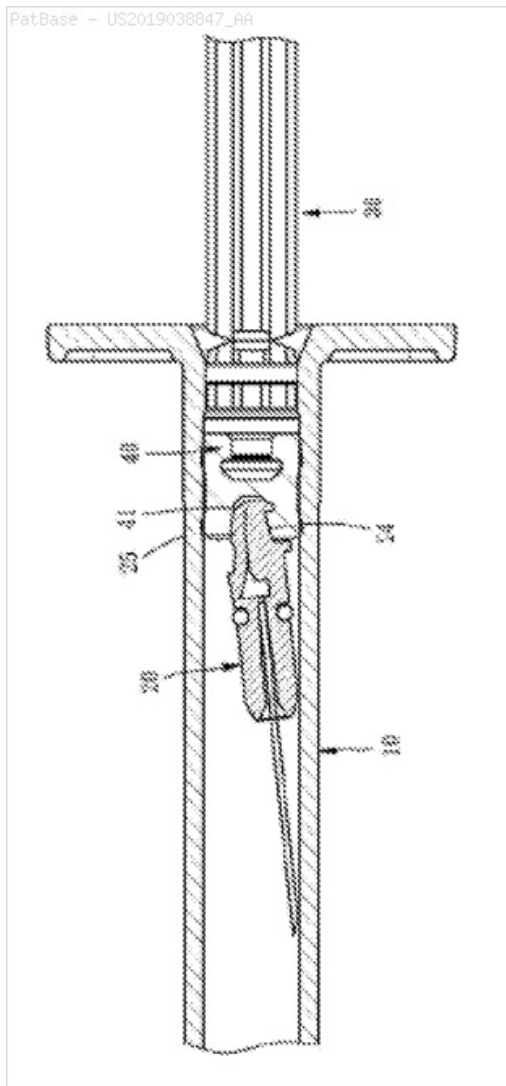
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A61M2005/31516 A61M2005/3224 A61M2005/323 A61M2005/3231

A61M2005/3206

US: 1/1 604/110

**Family:**

Publication number	Publication date	Application number	Application date
AU2016384940 AA	20180712	AU20160384940	20161226
AU2016384940 BB	20190919	AU20160384940	20161226
BR112018013823 A2	20181211	BR20181113823	20161226
CA3010878 AA	20180709	CA20163010878	20161226
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CO20180006591 A2	20180710	CO20180006591	20180626
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ID201809624 A	20180831	ID2018PID04741	20161226
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JP2019500150 T2	20190110	JP20180533944T	20161226
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PE12852018 A1	20180807	PE20180001246	20161226
PH2018501423 A	20190204	PH20180501423	20180703
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TW201725058 A	20170716	TW20160142782	20161222
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US2019038847 AA	20190207	US20160068216	20161226
WO17118308 A1	20170713	WO2016CN112099	20161226
ZA201805077 A	20190424	ZA20180005077	20180727

Priority:

CN201610012305 20160108 WO2016CN112099 20161226

Probable Assignee: WEN CHIN LU**Assignee(s):** (std): LU WEN CHIN ; LU WEN JIN ; LV WENJIN ; LYU WENJIN**Assignee(s):** WEN CHIN LU ; LU VEN CHIN**Inventor(s):** (std): LU WEN CHIN ; LYU WENJIN ; LU WEN JIN ; LV WENJIN**Inventor(s):** WEN CHIN LU ; LU VEN CHIN ; LU WENCHIN**Agent(s):** MICHAEL BUCK IP; GELSING SANDER R; MARGARITA CASTELLANOS ABONDANO; CABINET CHAILLOT; TEUKU KEMAL HUSEIN SS SH; EJCH KYU REZALT DLYA IVASHCHENKO OI OOO; WUXI HUICHENGYONGXIN PATENT FIRM GENERAL PARTNERSHIP**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 DJ 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 KH KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG

3) Family number: 28234118 (US2002072714A)

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Title: DIRECT DUAL FILLING DEVICE FOR SEALING AGENTS

Abstract: A method and apparatus for filling a syringe-type applicator having multiple material reservoirs are disclosed. The method and apparatus permits the individual component reservoirs to be simultaneously filled without risk of contamination or unintentional component mixing. The method and apparatus are particularly useful in the preparation and delivery of multiple component tissue sealants such as a fibrinogen adhesive compositions.

Classifications:

International (ipc 8-9): A61B17/00 A61B17/03 A61J1/00 A61J1/20 A61M1/02 A61M35/00 A61M37/00 A61M5/178

A61M5/28 (Advanced/Invention);

A61J1/00 A61J1/20 A61M1/02 A61M5/178 A61M5/28 (Advanced/Non-invention);

A61B17/00 (Core/Invention);

A61J1/00 A61J1/14 (Core/Non-invention)

International (ipc 1-7): A61B17/00 A61B17/08 A61M1/02

A61M35/00 A61M37/00 A61M5/00 A61M5/28 B65B31/00

CPC: A61B17/00491 A61B2017/00495 A61J1/2096 A61M5/1782

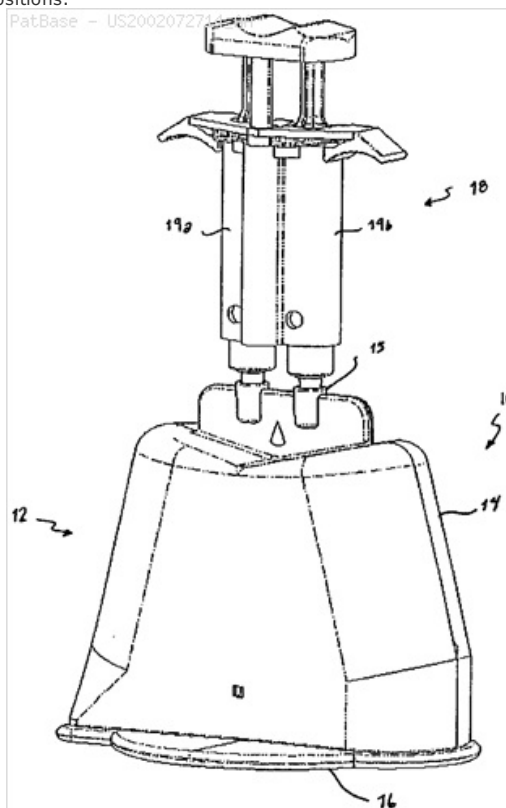
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European: A61B17/00L K61B17/00L2 K61J1/00M6 K61J1/20A2B K61J1/20A6C K61J1/20F K61M5/178F

US: 128/764 141/42 222/129 600/577 604/1 604/191 604/195

604/1P 604/240 604/506 604/518 604/82 604/82S 606/214

606/214P

**Family:**

Publication number	Publication date	Application number	Application date
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AU200119586 A1	20010618	AU20010019586	20001208
AU200119586 A5	20010618	AU20010019586	20001208
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CA2333607 AA	20001128	CA19992333607	19990602
CA2333607 C	20090317	CA19992333607	19990602
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EP1083962 A4	20081126	EP19990927173	19990602
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US2003139774 AA	20030724	US20020309338	20021202
US6475183 BA	20021105	US19990307056	19990507
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US6575205 BB	20030610	US20000731488	20001207
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US7207969 BB	20070424	US20020309338	20021202
WO0141650 A1	20010614	WO2000US33541	20001208
WO9962588 A1	19991209	WO1999US12285	19990602
WO9962588 C2	20011213	WO1999US12285	19990602

Priority:

US19980087856P 19980603	US19990307056 19990507	WO1999US12285 19990602
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US20020287934 20021104	US20020309338 20021202	

Probable Assignee: BAXTER INT**Assignee(s):** (std): BAXTER INT ; PLYLEY ALAN ; REDMOND RUSSELL JAMES ; BIOSURGICAL CORP**Assignee(s):** EPSTEIN GORDON HOWARD ; HAGMANN ADAM ; SPERO RICHARD ; LEVINSON MITCHELL E ; BAXTER INT INC ; BAXTER INT INCORPORATED ; BAXTER INTIONAL**Inventor(s):** (std): HAGMANN ADAM ; PLYLEY ALAN ; REDMOND RUSSELL JAMES ; EPSTEIN GORDON HOWARD ; SPERO RICHARD ; LEVINSON MITCHELL E ; GORDON HOWARD EPSTEIN ; MITCHELL E LEVINSON ; RICHARD SPERO**Inventor(s):** ADAM HAGMANN ; ALAN PLYLEY ; RUSSELL JAMES REDMOND**Agent(s):** PETER MAXWELL AND ASSOCIATES ; MAXWELLS PATENT AND TRADE MARK ATTORNEYS PTY LTD ; SIM AND MCBURNEY ; BRADFORD R L ; JEFFREY C ; AUSTIN J ; JOSEPH P

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 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 UZ VN YU ZA ZW

4) Family number: 33980160 (US2006276747A)

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Title: NEEDLE ASSEMBLY WITH REMOVABLE DEPTH STOP

Abstract: A needle assembly (10) includes a needle (14) attached to mounting structure (12), and is used to insert the needle into the body of a patient. A depth stop unit (50) of the needle assembly provides a stop surface (58) to limit the distance the needle can be inserted into the body. The depth stop unit may include a depth stop (52) that is adjustable to selectively change the depth to which the needle can be inserted. The entire depth stop unit can be removed from the needle assembly to permit the full length of the needle to penetrate into the body.

Classifications:

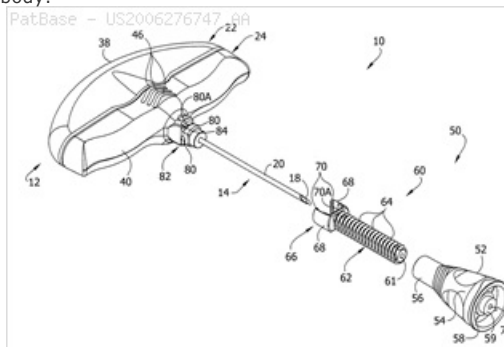
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International (IPC 1-7): A61B10/00 A61M5/46

CPC: A61B10/025 A61B2090/036

European: A61B10/02P4 K61B19/30F4

US: 600/562 600/562S 600/566 600/567 600/567P 600/573 600/573S 604/117 604/117P 604/117S 604/198



Family:

Publication number	Publication date	Application number	Application date
AT554709 E	20120515	AT20060010580T	20060523
AU2006202282 AA	20061221	AU20060202282	20060529
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CA2547831 AA	20061206	CA20062547831	20060524
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DE602006029014 D1	20120621	DE200660029014T	20060523
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HK1093145 A3	20070223	HK20070100175	20070105
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NO20062562 A	20061207	NO20060002562	20060602
NO20062562 L	20061207	NO20060002562	20060602
SG127863 A1	20061229	SG20060003815	20060605
TH83231 A	20070222	TH20061002558	20060605
TW200709825 A	20070316	TW20060120027	20060606
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Priority:

US20050145684 20050606 EP20060010580 20060523 CA20062547831 20060524
US20100836855 20100715

Probable Assignee: TYCO HEALTHCARE GROUP AG

Assignee(s): (std): COVIDIEN AG ; MOOS KIMBERLY A ; REYNOLDS WHITNEY ; SHERWOOD SERV AG ; SWISHER DAVID RORK ; SHERWOOD SERVICES INC

Assignee(s): CARDINAL HEALTH IRELAND UNLIMITED CO ; SHERWOOD SERVICES AG ; TYCO HEALTHCARE GROUP AG

Inventor(s): (std): SWISHER DAVID R ; REYNOLDS WHITNEY ; MOOS KIMBERLY A ; SWISHER DAVID RORK ; WHITNEY MOOS KIMBERLY A SWISHE

Inventor(s): KIMBERLY A MOOS ; WHITNEY REYNOLDS ; DAVID RORK SWISHER ; MOOS KIMBERLY ; SWISHER DAVID ; MOOS KIMBERLY A SWISHER DAVID RORK REYNOLDS WHITNE

Agent(s): SPRUSON AND FERGUSON; SMART AND BIGGAR; FROHWITTER PATENT U RECHTSANWAELTE; TOMLINSON EDWARD JAMES; DEACONS; PROSPEC PATENT FIRM; EDWARD S JARMOLOWICZ ESQ TYCO HEALTHCARE LP; TYCO HEALTHCARE EDWARD S JARMOLOWICZ; LISA E

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR YU

5) Family number: 34104174 (US2007110122A)

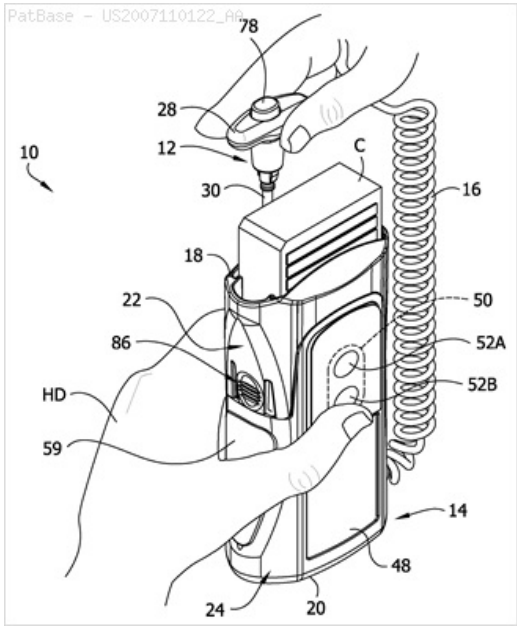
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Title: ELECTRONIC THERMOMETER

Abstract: An electronic thermometer having ergonomic and efficiency features. The thermometer includes a display and a control panel, defined by at least one button, disposed above the display. The thermometer is easy and comfortable to hold and allows the user to operate the thermometer with one hand. The thermometer holds a probe and a container of probe

covers in a convenient and compact configuration. A battery door is particularly constructed to avoid accidental opening. A bottom of the thermometer is formed to hold the housing in an upright position when the bottom is placed on a horizontal surface.

Classifications:
International (IPC 8-9): A61B5/01 G01K1/02 G01K1/08 G01K13/00 G01K7/00 G01K7/22 (Advanced/Invention);
A61B5/01 G01K13/00 G01K7/00 G01K7/16 (Core/Invention)
CPC: G01K1/02 G01K13/002
European: G01K1/02 G01K13/00B
US: 374/100 374/163 374/163P 374/E01.002 374/E1.002 374/E10.02S 374/E13.002 374/E13.002S D10/57
Locarno class: 10/04



Family:

Publication number	Publication date	Application number	Application date
AT491140 E	20101215	AT20070117902T	20071004
AU2007221829 AA	20080424	AU20070221829	20071004
AU2007221829 BB	20091119	AU20070221829	20071004
CA2604672 AA	20080406	CA20072604672	20070928
CA2604672 C	20110913	CA20072604672	20070928
CN300818480 D	20080820	CN200730009170F	20070405
DE602007011017 D1	20110120	DE200760011017T	20071004
EP1909085 A2	20080409	EP20070117902	20071004
EP1909085 A3	20080618	EP20070117902	20071004
EP1909085 B1	20101208	EP20070117902	20071004
ES2354733 T3	20110317	ES20070117902T	20071004
MX2007012285 A1	20090213	MX20070012285	20071003
US2007110122 AA	20070517	US20060539516	20061006
US7654735 BB	20100202	US20060539516	20061006
USD535202 S1	20070116	US20050241955F	20051103
USD548626 S1	20070814	US20060249453F	20061006

Priority:
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US20060539516 20061006 CA20072604672 20070928

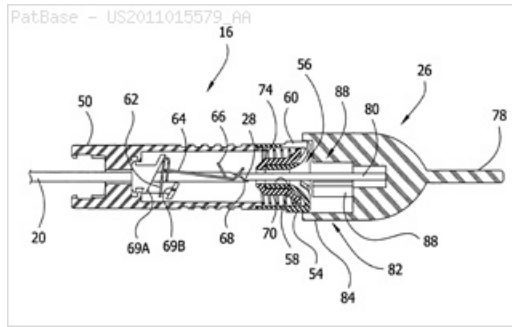
Probable Assignee: CARDINAL HEALTH IRELAND UNLIMITED CO
Assignee(s): (std): COVIDIEN AG ; SHERWOOD SERV AG ; SHERWOOD SERVICES INC
Assignee(s): BREITWEISER KENNETH M ; CARDINAL HEALTH 529 LLC ; SISK RICKY A ; GIERER JOSEPH T ; KIMSEY SCOTT ; CARDINAL HEALTH IRELAND UNLIMITED CO ; SHERWOOD SERVICES AG
Inventor(s): (std): BREITWEISER KENNETH M ; GIERER JOSEPH T ; KIMSEY SCOTT ; SISK RICKY A
Inventor(s): RICKY A SISK ; SCOTT KIMSEY ; SISK RICKY ; KENNETH M BREITWEISER ; JOSEPH T GIERER ; GIERER JOSEPH ; BREITWEISER KENNETH
Agent(s): SPRUSON AND FERGUSON; GRIFFITH HACK; SMART AND BIGGAR; GOWLING WLG CANADA LLP; KOERBER MARTIN HANS ET AL; KOERBER MARTIN HANS; TYCO HEALTHCARE EDWARD S JARMOLOWICZ
Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL PL PT RO RS SE SI SK TR

6) Family number: 48167209 (US2011015579A) © PatBase

Title: SAFETY RESET KEY AND NEEDLE ASSEMBLY

Abstract: A needle assembly includes a mounting structure and a needle mounted on the mounting structure and extending outwardly from the mounting structure. The needle has a longitudinal axis, a sharp end and a central axial passageway. A safety shield is associated with the needle and includes a tubular housing having distal and proximal ends. The distal end of the housing has a funnel-shaped surface. A reset key is configured to engage the distal end of the housing. The reset key includes a support. A shaft extending from the support is adapted for inserting into the distal end the housing. The funnel-shaped surface guides the shaft into the housing to register the reset key with the safety shield.

Classifications:
International (IPC 8-9): A61M5/32 (Advanced/Invention)
CPC: A61B10/025 A61B2010/0258 A61B2090/08021 A61M5/3273 A61B17/3472 A61B17/3494
European: A61B10/02P4 K61B10/02P4M K61B19/48B2 K61M5/32C2H6
US: 600/562 600/567 604/110 604/162 604/198 604/198P



Family:

Publication number	Publication date	Application number	Application date
US2011015579 AA	20110120	US20100892969	20100929
US8162889 BB	20120424	US20100892969	20100929

Priority:

US20050179090 20050711 US20100892969 20100929

Probable Assignee: KPR US LLC

Assignee(s): (std): MOOS KIMBERLY A ; SWISHER DAVID RORK ; TYCO HEALTHCARE ; COVIDIEN AG

Assignee(s): KPR US LLC ; TYCO HEALTHCARE GROUP LP

Inventor(s): (std): MOOS KIMBERLY A ; SWISHER DAVID RORK

Agent(s): TYCO HEALTHCARE EDWARD S JARMOLOWICZ; LISA E

7) Family number: 46846496 (US2007016138A)

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Title: SAFETY RESET KEY AND NEEDLE ASSEMBLY

Abstract: A safety reset key is used to release a locking mechanism holding a safety shield in place over a sharp tip of a needle. In one embodiment, the reset key has ribs that are received in peripheral slots on the safety shield to engage an unlocking mechanism that unlocks a connection of the safety shield to the needle to allow the safety shield to be moved along the needle to expose the sharp tip, such as may be necessary for a second use of the needle. In another embodiment, the reset key includes a shroud that receives the shield to prevent the shield from being inadvertently pulled off of the needle when removing the key. The reset key may be associated with an obturator used to remove biological material from a central axial passageway of the needle.

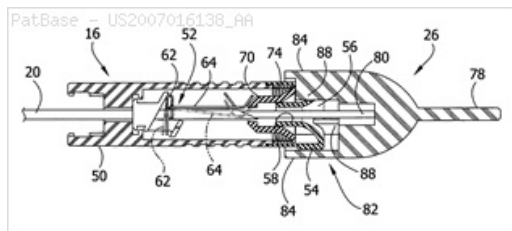
Classifications:

International (IPC 8-9): A61M5/178 A61M5/32 (Advanced/Invention); A61M5/178 (Core/Invention)

CPC: A61B2090/08021 A61B10/025 A61B2010/0258 A61M5/3273 A61B17/3472 A61B17/3494

European: A61B10/02P4 K61B10/02P4M K61B19/48B2 K61M5/32C2H6

US: 600/562 600/567 604/110 604/162 604/164.08 604/164.080P



Family:

Publication number	Publication date	Application number	Application date
US2007016138 AA	20070118	US20050179090	20050711
US7828773 BB	20101109	US20050179090	20050711

Priority:

US20050179090 20050711

Probable Assignee: KPR US LLC

Assignee(s): (std): COVIDIEN AG ; SHERWOOD SERV AG

Assignee(s): SHERWOOD SERVICES AG ; TYCO HEALTHCARE GROUP AG ; KPR US LLC

Inventor(s): (std): SWISHER DAVID R ; MOOS KIMBERLY A

Inventor(s): SWISHER DAVID ; MOOS KIMBERLY

Agent(s): TYCO HEALTHCARE EDWARD S JARMOLOWICZ; LISA E

8) Family number: 46846497 (US2007016139A)

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Title: NEEDLE SAFETY SHIELD WITH RESET

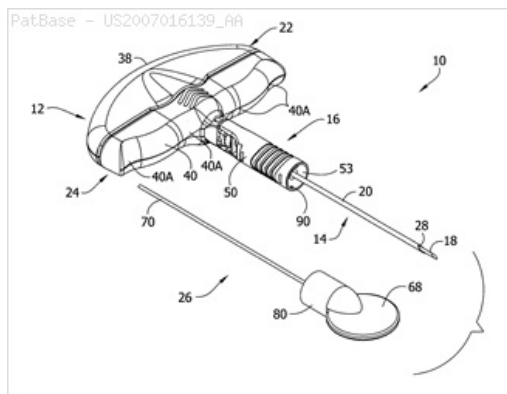
Abstract: A safety shield is capable of being moved on a needle assembly to cover a sharp tip of the needle assembly. The shield can be locked in place over the sharp tip by a locking mechanism. The safety shield has a locking mechanism for locking the shield in place covering the sharp needle tip. The safety shield also has an unlocking mechanism that can move to release the locking mechanism and allow the shield to be moved to uncover the sharp tip. A reset member may include projecting portions that can be received through the shield to actuate the unlocking mechanism for releasing the locking mechanism.

Classifications:

International (IPC 8-9): A61M5/178 A61M5/32 (Advanced/Invention); A61M5/178 (Core/Invention)

CPC: A61M25/0618 A61B10/025 A61B2010/0258 A61M5/3273 A61M2005/325 A61M2202/10

European: A61B10/02P4 A61M25/06D1 K61B10/02P4M K61M202/10 K61M5/32C2H1D4 K61M5/32C2H6

**Family:**

Publication number	Publication date	Application number	Application date
US2007016139 AA	20070118	US20050179696	20050711
US7850650 BB	20101214	US20050179696	20050711

Priority:

US20050179696 20050711

Probable Assignee: KPR US LLC**Assignee(s):** (std): COVIDIEN AG ; SHERWOOD SERV AG**Assignee(s):** SHERWOOD SERVICES AG ; TYCO HEALTHCARE GROUP AG ; KPR US LLC**Inventor(s):** (std): BREITWEISER KENNETH M**Inventor(s):** BREITWEISER KENNETH**Agent(s):** TYCO HEALTHCARE EDWARD S JARMOLOWICZ; LISA E**9) Family number: 46846498 (US2007073244A)**

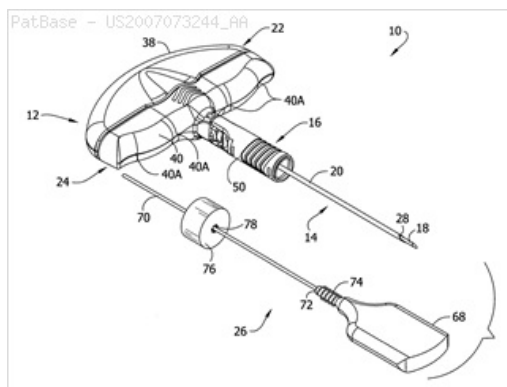
© PatBase

Title: NEEDLE ASSEMBLY INCLUDING OBTURATOR WITH SAFETY RESET

Abstract: A needle assembly is able to collect a sample of biological material in a needle of the assembly. The needle assembly has a safety shield capable of being moved on the needle assembly to cover a sharp tip of the needle assembly. The shield can be locked in place over the sharp tip by a locking mechanism. The assembly further includes an obturator that can be inserted into the needle to remove the sample from the needle. A reset member associated with the obturator is capable of engaging the locking mechanism to release the locking mechanism and allow the shield to be moved away from the sharp tip.

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

A61M5/32 (Core/Invention)

CPC: A61B10/025 A61B2010/0258 A61M5/3273**European:** A61B10/02P4 K61B10/02P4M K61M5/32C2H6**US:** 600/567 604/110 604/162 604/192 604/192P**Family:**

Publication number	Publication date	Application number	Application date
US2007073244 AA	20070329	US20050179438	20050711
US7905857 BB	20110315	US20050179438	20050711

Priority:

US20050179438 20050711

Probable Assignee: KPR US LLC**Assignee(s):** (std): COVIDIEN AG ; SHERWOOD SERV AG**Assignee(s):** SHERWOOD SERVICES AG ; TYCO HEALTHCARE GROUP AG ; KPR US LLC**Inventor(s):** (std): SWISHER DAVID R ; SWISHER DAVID RORK**Inventor(s):** SWISHER DAVID**Agent(s):** TYCO HEALTHCARE EDWARD S JARMOLOWICZ; LISA E**10) Family number: 46846501 (US2007219461A)**

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Title: NEEDLE ASSEMBLY INCLUDING OBTURATOR WITH SAFETY RESET

Abstract: A needle assembly is able to collect a sample of biological material in a needle of the assembly. The needle

assembly has a safety shield capable of being moved on the needle assembly to cover a sharp tip of the needle assembly. The shield can be locked in place over the sharp tip by a locking mechanism. The assembly further includes an obturator that can be inserted into the needle to remove the sample from the needle. A reset member, which in some embodiments is associated with the obturator, is capable of operatively engaging the locking mechanism to release the locking mechanism and allow the shield to be moved away from the sharp tip.

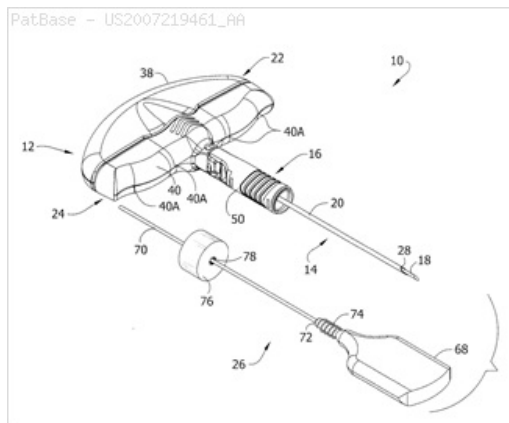
Classifications:

International (IPC 8-9): A61B10/00 A61M5/00 (Advanced/Invention); A61B10/00 (Core/Invention)

CPC: A61B17/3494 A61B2010/0258 A61B2090/08021 A61M5/3273 A61B10/025 A61B17/3472

European: A61B10/02P4 A61B17/34L K61B17/34S

US: 600/567 600/567P 604/110 604/164.08



Family:

Publication number	Publication date	Application number	Application date
US2007219461 AA	20070920	US20070741529	20070427
US7976498 BB	20110712	US20070741529	20070427

Priority:

US20050179090 20050711 US20050179438 20050711 US20050179696 20050711
WO2005US38965 20051027 US20070741529 20070427

Probable Assignee: KPR US LLC

Assignee(s): (std): TYCO HEALTHCARE

Assignee(s): TYCO HEALTHCARE GROUP LP ; COVIDIEN LP ; KPR US LLC

Inventor(s): (std): BREITWEISER KENNETH M ; SWISHER DAVID R ; WIESNER JOEL D ; SWISHER DAVID RORK

Inventor(s): SWISHER DAVID ; BREITWEISER KENNETH ; WIESNER JOEL

Agent(s): TYCO HEALTHCARE EDWARD S JARMOLOWICZ ; LISA E

11) Family number: 42998679 (US2009069750A)

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Title: INFUSION DEVICE AND METHOD OF USING AND MAKING THE SAME

Abstract: Fluid delivery device includes a body, a cannula adapted to extend into subcutaneous tissue, and a septum member adapted to allow a needle to puncture the septum member and to reseal the puncture once the needle is withdrawn from the puncture. The septum member is at least one of; a cap-shaped member, a member having at least two non-parallel walls that can each be punctured by a needle, and a member having a generally planar wall and a generally cylindrical wall which can each be punctured by a needle.

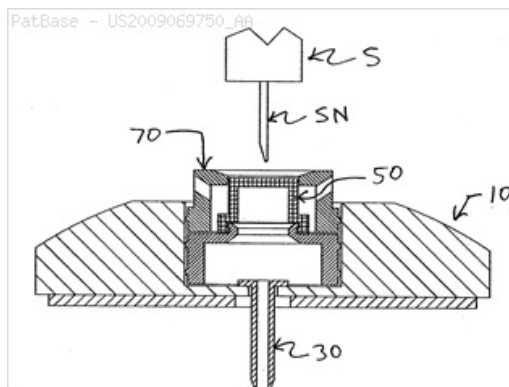
Classifications:

International (IPC 8-9): A61B17/34 A61M31/00 A61M5/00 A61M5/142 A61M5/158 B23P17/04 (Advanced/Invention); A61M5/152 A61M5/168 (Advanced/Non-invention); A61M31/00 A61M5/00 (Core/Invention)

CPC: A61M5/14248 A61M5/152 A61M5/158 A61M5/16827 A61M2005/1583 A61M2005/1585 Y10T29/49826

European: A61M5/142P2 A61M5/158 K61M5/152 K61M5/158E K61M5/158G K61M5/168A11

US: 1/1 29/428 604/117 604/164.01 604/164.12 604/167.02 604/167.020P 604/180 604/180S 604/244 604/264 604/272 604/506 604/539 604/539S 604/86



Family:

Publication number	Publication date	Application number	Application date
US2009069750 AA	20090312	US20070851742	20070907
US2013012889 AA	20130110	US20120618360	20120914
US8303545 BB	20121106	US20070851742	20070907
US9067010 BB	20150630	US20120618360	20120914
WO09033032 A1	20090312	WO2008US75416	20080905

Priority:

US20070851742 20070907 US20120618360 20120914

Probable Assignee: STAT MEDICAL DEVICES INC

Assignee(s): (std): SCHRAGA STEVEN ; STAT MEDICAL DEVICES INC

Inventor(s): (std): SCHRAGA STEVEN

Agent(s): GREENBLUM AND BERNSTEIN PLC ; ROYLANCE STEPHEN M 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

12) Family number: 34104717 (US2007073240A)

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Title: DEVICE FOR SHIELDING A SHARP TIP OF A CANNULA AND METHOD OF USING THE SAME

Abstract: A safety device for shielding a sharp tip of a tubular needle includes a shaft sized and shaped for being received into the passage of the tubular needle through a first end of the passage and extending to a second end of the passage. A shield is associated with the shaft and is constructed for receiving and substantially shielding the sharp tip of the needle. A catch is associated with the shaft. The catch prevents the withdrawal of the shaft from the passage of the needle when the shield is shielding the sharp tip of the needle.

Classifications:

International (IPC 8-9): A61B A61B10/00 A61B10/02 A61B17/00 A61B17/14 A61B17/32 A61B17/34 A61B5/00 A61B5/151 A61M A61M25/06 A61M5/00 A61M5/158 A61M5/162 A61M5/178 A61M5/32 (Advanced/Invention); A61M5/32 (Advanced/Non-invention); A61B10/00 A61B10/02 A61B17/00 A61B17/14 A61B17/34 A61B5/00 A61B5/15 A61M25/06 A61M5/00 A61M5/14 A61M5/158 A61M5/178 A61M5/32 (Core/Invention); A61M (Subclass/Invention)

International (IPC 1-7): A61B10/02 A61M5/158 A61M5/32

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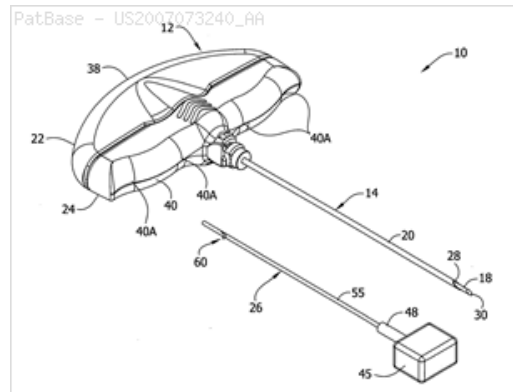
A61M25/0631 A61M2202/10

European: A61B10/02P4 A61M25/06D2 A61M5/32C2B

K61B19/48B2 K61M202/10 K61M5/32C2B K61M5/32C2H6

US: 600/567 600/567P 600/573 600/573S 600/583 604/110

604/164.08 604/167.03 604/167.030P 604/263 604/263S 606/184

**Family:**

Publication number	Publication date	Application number	Application date
AT390160 E	20080415	AT20060014394T	20060711
AU2006202930 AA	20070125	AU20060202930	20060707
AU2006202930 BB	20090702	AU20060202930	20060707
BRPI0602837 A	20070306	BR2006PI02837	20060711
CA2550339 AA	20070111	CA20062550339	20060616
CA2550339 C	20110125	CA20062550339	20060616
CN100515348 C	20090722	CN200610101918	20060711
CN1915179 A	20070221	CN200610101918	20060711
DE602006000798 D1	20080508	DE200660000798T	20060711
DE602006000798 T2	20090507	DE200660000798T	20060711
EP1743669 A2	20070117	EP20060014394	20060711
EP1743669 A3	20070328	EP20060014394	20060711
EP1743669 B1	20080326	EP20060014394	20060711
HK1093928 A1	20070316	HK20070101047	20070130
HK1093928 A3	20070316	HK20070101047	20070130
IL176434 A0	20061005	IL20060176434	20060620
IL176434 A1	20100517	IL20060176434	20060620
JP2007021195 A2	20070201	JP20060172452	20060622
JP4464371 B2	20100519	JP20060172452	20060622
KR100806503 B1	20080221	KR20060060101	20060630
KR20070007716 A	20070116	KR20060060101	20060630
MXPA06007722 A1	20070126	MX2006PA07722	20060705
NO20063082 A	20070112	NO20060003082	20060703
NO20063082 L	20070112	NO20060003082	20060703
SG129376 A1	20070226	SG20060004642	20060710
TH84372 A	20070503	TH20061003223	20060707
TW200726495 A	20070716	TW20060124247	20060704
US2007073240 AA	20070329	US20050179143	20050711
US2010217152 AA	20100826	US20100770204	20100429
US2010217153 AA	20100826	US20100770245	20100429
US7731692 BB	20100608	US20050179143	20050711
US8419687 BB	20130416	US20100770245	20100429
US8523809 BB	20130903	US20100770204	20100429

Priority:

US20050179143 20050711 CA20062550339 20060616 US20100770204 20100429
US20100770245 20100429

Probable Assignee: SHERWOOD SERVICES AG

Assignee(s): (std): COVIDIEN AG ; MOOS KIMBERLY A ; SHERWOOD SERV AG ; SHERWOOD SERVICES AG ; SHERWOOD SERVICES INC ; SHERWOOD SERVICES AG ; SWISHER DAVID RORK

Assignee(s): CARDINAL HEALTH IRELAND UNLIMITED CO ; TYCO HEALTHCARE GROUP AG

Inventor(s): (std): SWISHER DAVID R ; MOOS KIMBERLY A ; SWISHER DAVID RORK ; MOOS KIMBERLY A SWISHER DAVID ; DAVID RORK SWISHER ; KIMBERLY A MOOS

Inventor(s): MOOS KIMBERLY ; SWISHER DAVID

Agent(s): SPRUSON AND FERGUSON; GRIFFITH HACK; SMART AND BIGGAR; TOMLINSON EDWARD JAMES; DEACONS; REINHOLD COHN AND PARTNERS; PROSPEC PATENT FIRM; TYCO HEALTHCARE EDWARD S JARMOLOWICZ; TYCO HEALTHCARE GROUP LP; LISA E; EDWARD S

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR YU

Title: TILTING DIRECT DUAL FILLING DEVICE

Abstract: A direct dual filling device for sealing agents capable of transferring a material from a commercially available material container to a material applicator. The filling device of the present invention comprises a hood defining at least one receiving aperture, an applicator interface in communication with the hood and having at least one filling port formed thereon, at least one transfer conduit in communication with the at least one filling port, at least one withdrawal cannula located within the receiving aperture and in communication with the at least one transfer conduit, and a container support device capable of receiving and supporting at least one material container in an upright tilted position within the receiving aperture. The hood may include at least one engaging surface and at least one displacement recess. In addition, the container support device may include at least one biasing member capable of biasing the material container from an upright position to an upright tilted position, thereby enabling the withdrawal of substantially all the material from the material container.

Classifications:

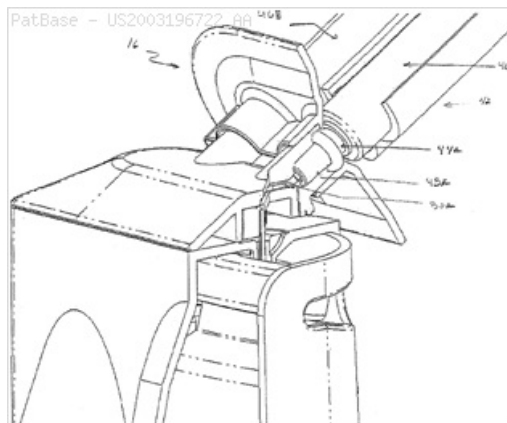
International (IPC 8-9): A61B17/00 B65B3/00 (Advanced/Invention); A61B17/00 B65B3/00 (Core/Invention)

International (IPC 1-7): A61B17/00 B65B1/04 B65B3/00 B65B3/04 B67C3/00

CPC: A61B17/00491 A61B2017/00495 B65B3/003

European: A61B17/00L B65B3/00B K61B17/00L2

US: 141/18 141/25 141/26 141/27 141/318 141/319 141/386



Family:

Publication number	Publication date	Application number	Application date
AU2003243144 AA	20031103	AU20030243144	20030418
CA2482030 AA	20041013	CA20032482030	20030418
CA2482030 C	20110621	CA20032482030	20030418
DE60321561 D1	20080724	DE20036021561	20030418
EP1499243 A1	20050126	EP20030747031	20030418
EP1499243 B1	20080611	EP20030747031	20030418
US2003196722 AA	20031023	US20020126789	20020419
US6644365 BA	20031111	US20020126789	20020419
WO03088843 A1	20031030	WO2003US12052	20030418

Priority:

US20020126789 20020419 WO2003US12052 20030418

Probable Assignee: BAXTER HEALTHCARE SA

Assignee(s): (std): BAXTER HEALTHCARE SA ; BAXTER INT ; SPERO RICHARD ; HAGMANN ADAM

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

Inventor(s): (std): SPERO RICHARD ; HAGMANN ADAM

Inventor(s): RICHARD SPERO ; ADAM HAGMANN

Agent(s): PETER MAXWELL AND ASSOCIATES; MAXWELLS PATENT AND TRADE MARK ATTORNEYS PTY LTD; SIM AND MCBURNEY; DEE IAN MARK

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

Title: NEEDLE ASSEMBLY INCLUDING OBTURATOR WITH SAFETY RESET

Abstract: A needle assembly is able to collect a sample of biological material in a needle of the assembly. The needle assembly has a safety shield capable of being moved on the needle assembly to cover a sharp end of the needle assembly. The safety shield includes a tubular housing. The shield can be locked in place over the sharp end by a locking mechanism. The assembly further includes a reset member selectively operatively engageable with the locking mechanism for releasing the locking mechanism to permit the tubular housing to be moved away from the sharp end of the needle assembly. The safety shield further includes a resilient membrane including a thin sheet of resilient material the entirety of which extending substantially in a plane extending across the tubular housing.

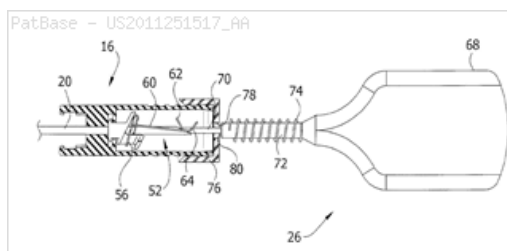
Classifications:

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

CPC: A61B17/3494 A61B2010/0258 A61B2090/08021 A61M5/3273 A61B10/025 A61B17/3472

European: A61B10/02P4 A61B17/34L K61B17/34S

US: 600/567 600/567P 600/576 604/110 604/164.08



Family:

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■ US2011251517 AA	20111013	US20110163955	20110620
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Probable Assignee: KPR US LLC

Assignee(s): (std): BREITWEISER KENNETH M ; COVIDIEN LP ; SWISHER DAVID RORK ; TYCO HEALTHCARE

Assignee(s): TYCO HEALTHCARE GROUP LP ; KPR US LLC

Inventor(s): (std): SWISHER DAVID RORK ; BREITWEISER KENNETH M

Agent(s): LISA E