

Search query (4): [SP]: filtering syringe the present invention relates to a filtering syringe, and more particularly, to an apparatus obtained by improving a syringe provided with a filter means for filtering foreign substances such as glass fragments of an ampoule, so as to prevent an injection needle or an injection flow passage from being contaminated with the foreign substances while allowing a liquid medicine to be smoothly sucked with a smaller force. the filtering syringe is configured such that the injection needle or the injection flow passage is isolated from the suction flow passage which is upstream of the filter means and in which the foreign substances may remain together with the liquid medicine, thereby allowing the liquid medicine to be sucked with a force less than that required for a conventional syringe and thus maximizing user's convenience and marketability of the syringe.

Results: 7

1) Family number: 64498913 (US2018243510 AA)

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Title: FILTERING SYRINGE

Abstract: The present invention relates to a filtering syringe, and more particularly, to an apparatus obtained by improving a syringe provided with a filter means for filtering foreign substances such as glass fragments of an ampoule, so as to prevent an injection needle or an injection flow passage from being contaminated with the foreign substances while allowing a liquid medicine to be smoothly sucked with a smaller force. The filtering syringe is configured such that the injection needle or the injection flow passage is isolated from the suction flow passage which is upstream of the filter means and in which the foreign substances may remain together with the liquid medicine, thereby allowing the liquid medicine to be sucked with a force less than that required for a conventional syringe and thus maximizing user's convenience and marketability of the syringe.

Classifications:

International (IPC 8-9): A61M A61M5/165 A61M5/178 A61M5/31 A61M5/32 A61M5/34

International (IPC 1-7): A61M5/165 A61M5/31 A61M5/32

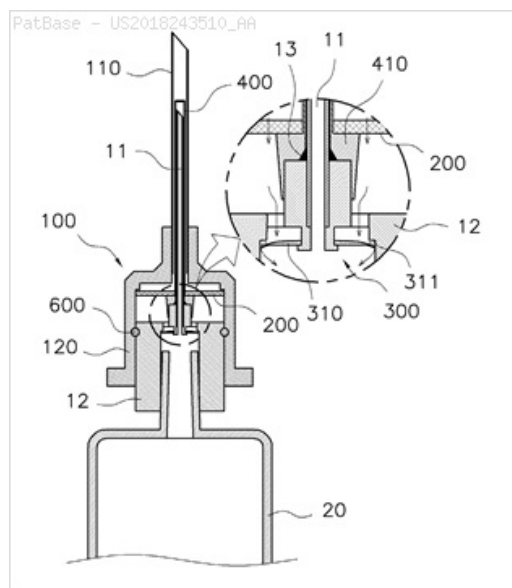
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A61M2005/3128 A61M2205/75 A61M2205/7545 A61M2206/18

A61M5/165 A61M5/31 A61M5/3129 A61M5/3145 A61M5/32

A61M5/3202 A61M5/3293 A61M5/34 A61M5/349

US: 1/1 604/190



Family:

Publication number	Publication date	Application number	Application date
AU2016320415 AA	20180426	AU20160320415	20160906
AU2016320415 BB	20190808	AU20160320415	20160906
BR112018004588 A2	20180925	BR20181104588	20160906
CA2997415 AA	20180305	CA20162997415	20160906
CL2018000572 A1	20180525	CL20180000572	20180302
CN108025141 A	20180511	CN201680052130	20160906
CO20180003611 A2	20180410	CO20180003611	20180404
EP3348297 A1	20180718	EP20160844649	20160906
EP3348297 A4	20190417	EP20160844649	20160906
HK1254905 A1	20190802	HK20180114004	20181102
ID201808784 A	20180810	ID2018PID02531	20160906
IN201817010421 A	20180706	IN201817010421	20180321
JP2018526158 T2	20180913	JP20180513552T	20160906
JP6529664 B2	20190612	JP20180513552T	20160906
KR101690456 B1	20161227	KR20160034288	20160322
MX2018002793 A1	20180413	MX20180002793	20160906
NZ740897 A	20190125	NZ20160740897	20160906
PH2018500518 A	20180924	PH20180500518	20180309
RU2676440 C1	20181228	RU20180112268	20160906
SG11201801430Y A1	20180328	SG20181101430	20160906
TH182657 A	20190110	TH20181001066	20160906
US2018243510 AA	20180830	US20160753740	20160906
WO17043830 A1	20170316	WO2016KR09939	20160906
ZA201802086 A	20190731	ZA20180002086	20160906

Priority:

KR20150127942 20150909 KR20160034288 20160322 WO2016KR09939 20160906

Probable Assignee: RAYONG COUNTRY

Assignee(s): (std): RA YONG KUK ; YONG KUK RA

Assignee(s): RAYONG COUNTRY ; PA ЙОНГ КУК ; □□ □□ ; □□ ; ラ ヨン ク ; ラ ヨン-ク ; 罗铺国 ; 羅鋪國 ; 라용국

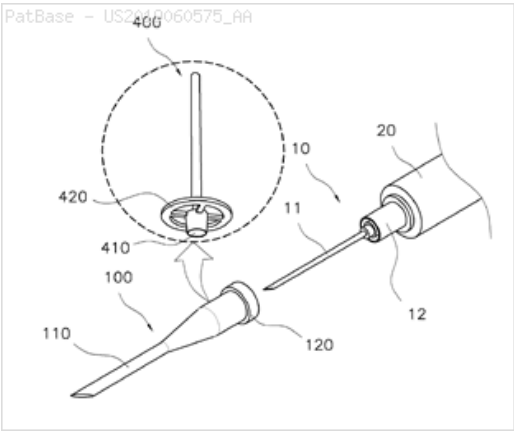
Inventor(s): (std): RA YONG KUK ; YONG KUK RA
Inventor(s): PA ЙОНГ КΥΚ ; □□ □□ ; □□ ; ラヨン ク ; ラヨン-ク ; 罗慵国 ; 羅慵國 ; 라용국
Agent(s): ALESSANDRI AND COMPANIA LIMITADA; CHINA PATENT AGENT HK LTD; DOI KENJI; DR TOETI HERATY N ROOSSENO; GRIFFITH HACK; HAYASHI TSUNENORI; JESUS MARIA MENDEZ BERMUDEZ; LAMINAR IP PTY LTD; MAENG SEON HO; MOFFAT AND CO; WILSON GUNN; YURIDICHESKAYA GORODISSKIY I PARTNER Y OOO FA; ЮРИДИЧЕСКАЯ ФИРМА ГОРОДИССКИЙ И ПАРТНЕРЫ ООО; □□□□□□□□ □□□□□□□□, □□□□□□□□ □□□□□□□□, □□□□□□□□ □□□□□□□□; 丁文蕴; 北京银龙知识产权代理有限公司 11243; 土井 健二; 李平; 林 恒德; 맹선호
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

2) Family number: 64140649 (US2019060575 AA) © PatBase

Title: FILTERING SYRINGE

Abstract: The present invention relates to a filtering syringe, and more particularly, to an apparatus obtained by improving a syringe provided with a filter means for filtering foreign substances such as glass fragments of an ampoule, so that opening or closing of a one-way valve means is controlled depending on whether a cap is separated, and that the filter means can be also designed to be larger in cross-sectional area so as to allow a liquid medicine to be smoothly sucked with a smaller force. The filtering syringe is configured such that the liquid medicine is filtered and sucked through the filter means having the larger cross-sectional area even with the smaller force in a cap-assembled state and the one-way valve means is automatically closed to allow the liquid medicine to be injected in a cap-separated state, thereby maximizing user's convenience and marketability of the syringe.

Classifications:
International (IPC 8-9): A61M A61M5/162 A61M5/165 A61M5/31 A61M5/32 A61M5/34
International (IPC 1-7): A61M5/162 A61M5/31 A61M5/32
CPC: A61M2005/3128 A61M5/162 A61M5/1626 A61M5/165 A61M5/3145 A61M5/32 A61M5/3202 A61M5/3293 A61M5/34 A61M5/343
US: 1/1



Family:

Publication number	Publication date	Application number	Application date
AU2017238876 AA	20181101	AU20170238876	20170227
BR112018068997 A2	20190122	BR20181168997	20170227
CA3017593 AA	20180912	CA20173017593	20170227
CL2018002684 A1	20190222	CL20180002684	20180921
CN108778377 A	20181109	CN201780019948	20170227
CO20180011132 A2	20181022	CO20180011132	20181017
EP3434303 A1	20190130	EP20170770499	20170227
EP3434303 A4	20191106	EP20170770499	20170227
ID201812654 A	20181207	ID2018PID08362	20170227
IN201817038673 A	20190118	IN201817038673	20181011
JP2019509134 T2	20190404	JP20180549442T	20170227
KR101680514 B1	20161128	KR20160034276	20160322
MX2018011564 A1	20190128	MX20180011564	20170227
PH2018502019 A	20190715	PH20180502019	20180921
RU2018136896 A	20200422	RU20180136896	20170227
SG11201808180Q A1	20181030	SG20181108180	20170227
US10716902 BB	20200721	US20170086727	20170227
US2019060575 AA	20190228	US20170086727	20170227
WO17164528 A1	20170928	WO2017KR02112	20170227
ZA201806744 A	20200129	ZA20180006744	20170227

Priority:
KR20160034276 20160322 WO2017KR02112 20170227

Probable Assignee: RAYONG COUNTRY

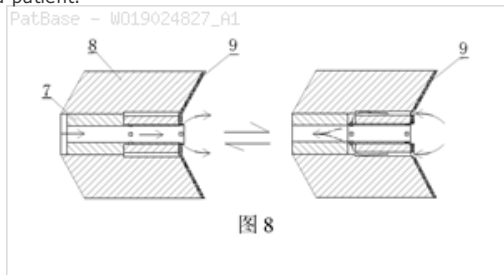
Assignee(s): (std): RA YONG KUK ; YONG KUK RA
Assignee(s): RAYONG COUNTRY ; PA ЙОНГ КΥΚ ; ラヨン ク ; ラヨン-ク ; 罗慵国 ; 라용국
Inventor(s): (std): RA YONG KUK ; YONG KUK RA
Inventor(s): PA ЙОНГ КΥΚ ; ラヨン ク ; ラヨン-ク ; 罗慵国 ; 라용국
Agent(s): ALESSANDRI AND COMPANIA LIMITADA; DOI KENJI; DR INDA CITRANINDA NOERHADI SS MA; HAYASHI TSUNENORI; LAMINAR IP PTY LTD; LRK PATENT LAW FIRM; MAENG SEON HO; MOFFAT AND CO; WILSON GUNN; ЮРИДИЧЕСКАЯ ФИРМА ГОРОДИССКИЙ И ПАРТНЕРЫ ООО; 北京银龙知识产权代理有限公司 11243; 土井 健二; 张敬强; 李平; 林 恒德; 맹선호
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 KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD

3) Family number: 67853619 (WO19024827 A1)

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Title: PRECISION MEDICINAL SOLUTION FILTER

Abstract: A precision medicinal solution filter comprising: a filter body (1) provided within a syringe (2) or connected to a needle base of the syringe (2). The front extremity of the filter body (1) is a conical extremity (6); the rear extremity is a filter extremity (5). The filter body (1) comprises a filter block (8) and a floating plug (7) movably provided within the filter block (8). A filter cavity is formed inside the filter block (8). An annular filter membrane (9) is provided within the filter cavity. When the syringe is drawing a solution, the floating plug (7) moves to the top part of a floating plug channel (81) of the filter block (8), the solution enters the filter cavity via a blind hole (71) of the floating plug (7). When the syringe is discharging the solution, the floating plug (7) moves away from the top part of the floating plug channel (81) of the filter block (8). The solution of the filter cavity enters the blind hole (71) of the floating plug (7) via the annular filter membrane (9) and a peripheral channel of the filter block (8). The filter is inexpensive, filters safely, is convenient to use, and, during a dosing process, allows microparticles and sediments to be filtered directly when preparing the solution, thus achieving the effect of precision filtration and ensuring medication use safety for a patient.

Classifications:**International (IPC 8-9):** A61M5/178 A61M5/31**CPC:** A61M5/3145**Family:**

Publication number	Publication date	Application number	Application date
CN107469196 A	20171215	CN201710643538	20170731
CN107469196 B	20181002	CN201710643538	20170731
WO19024827 A1	20190207	WO2018CN097643	20180727

Priority:

CN201710643538 20170731

Probable Assignee: ZHENGZHOU KANGJIA MEDICAL INSTR CO LTD

Assignee(s): (std): XIAN HUBANG FILTERING MEMBRANE NEW TECH CO LTD ; ZHENGZHOU KANGJIA MEDICAL DEVICE CO LTD ; ZHENGZHOU KANGJIA MEDICAL DEVICES CO LTD ; ZHENGZHOU KANGJIA MEDICAL INSTR CO LTD

Assignee(s): XI AN HUBANG FILTERING MEMBRANE NEW TECHNOLOGY CO ; XI AN HUBANG FILTERING MEMBRANE NEW TECHNOLOGY CO LTD ; ZHENGZHOU KANGJIA MEDICAL DEVICE CO ; ZHENGZHOU KANGJIA MEDICAL INSTRUMENT CO ; 西安互邦过滤膜新材料科技有限公司 ; 郑州康佳医疗器械有限公司

Inventor(s): (std): FU YUAN ; JI ZHIFENG ; JING CHUNXI ; YUAN ZHANG ; ZHANG YIBO ; ZHANG ZEFENG

Inventor(s): 付渊 ; 元彰 ; 姬志峰 ; 张泽锋 ; 张溢波 ; 荆春喜

Agent(s): XIAN TONG DA PATENT AGENCY CO LTD; 张弘; 西安通大专利代理有限公司; 西安通大专利代理有限公司 61200

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 JO JP KE KG KH KM KN KP KR KW 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 PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

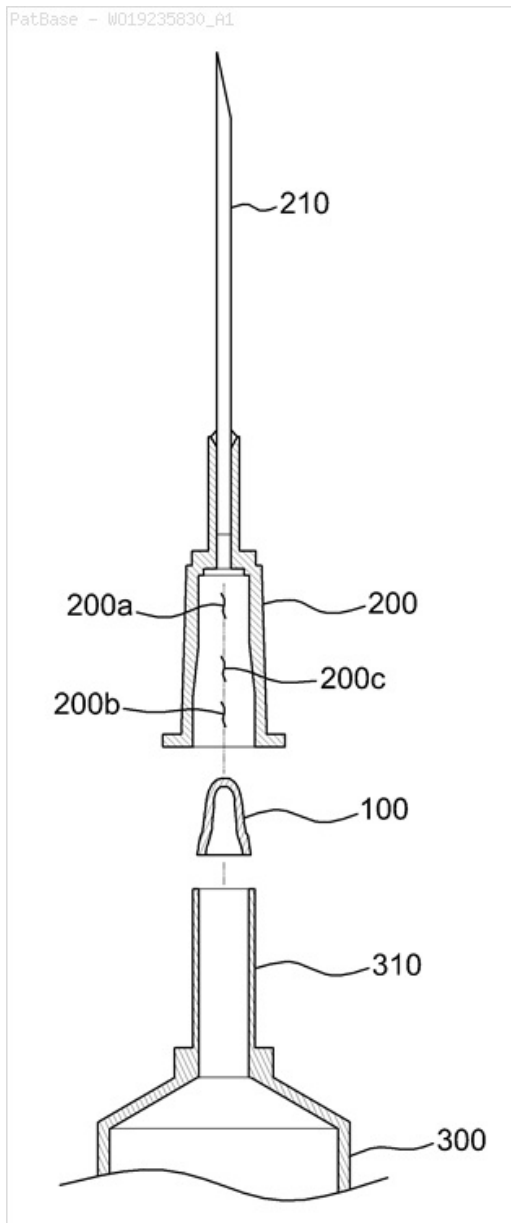
4) Family number: 71589828 (WO19235830 A1)

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Title: DEVICE FOR FILTERING CHEMICAL LIQUID FOR SYRINGE

Abstract: The present invention relates to a device for filtering a chemical liquid for a syringe and specifically to a device for filtering a chemical liquid for a syringe, comprising: a syringe cylinder having a syringe cylinder head formed on the front end part thereof; a syringe needle head to which the syringe cylinder head is inserted; and a chemical liquid filter which is inserted to the hollow of the syringe needle head, for filtering a foreign material included in the chemical liquid, wherein the chemical liquid filter comprises a dome-shaped filter part made of a porous material, and a check valve part which is formed so that the outer diameter expands from the lower end of the filter part, and which is seated on the syringe cylinder head, and, when the chemical liquid is sucked in, the chemical liquid is sucked in between the inner circumferential surface of the syringe needle head and the check valve part, and, when the chemical liquid is discharged, the chemical liquid is discharged after being filtered via the filter part as the check valve part comes into a close contact with the inner circumferential surface of the syringe needle head.

Classifications:**International (IPC 8-9):** A61M5/31**CPC:** A61M2005/3128 A61M2205/7545 A61M5/3145 A61M5/31

**Family:**

Publication number	Publication date	Application number	Application date
KR101911065 B1	20181023	KR20180065072	20180605
WO19235830 A1	20191212	WO2019KR06763	20190604

Priority:

KR20180065072 20180605 KR20190044568 20190416 KR20190044570 20190416

Probable Assignee: IM SEONG GU

Assignee(s): (std): IM SEONG GU ; IM SUNG KU

Assignee(s): SCRIPTURE ; 임성구

Inventor(s): (std): IM SEONG GU ; IM SUNG KU

Inventor(s): 임성구

Agent(s): CHOI SUNG KEUN; 최성근

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 JO JP KE KG KH KM KN KP KW 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 PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

5) Family number: 64522998 (US2018304022 AA)

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Title: FILTERING SYRINGE

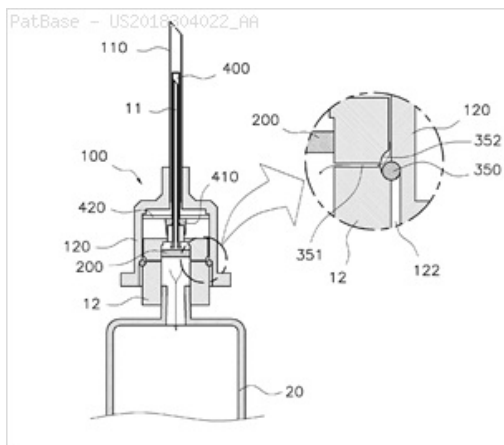
Abstract: The present invention relates to a filtering syringe, and more particularly, to an apparatus obtained by improving a syringe provided with a filter means for filtering foreign substances such as glass fragments of an ampoule, so as to prevent the foreign substances from being injected together with a liquid medicine while allowing the liquid medicine to be smoothly sucked and injected with a small force, especially even though a filter means having micro-pores is employed. The filtering syringe is configured such that the filter means is provided in the injection flow passage to prevent the foreign substances from being injected together with the liquid medicine while enabling the liquid medicine to be more smoothly sucked and injected despite employing the filter means having the micro-pores, thereby maximizing user's convenience and marketability of the syringe.

Classifications:**International (IPC 8-9):** A61J1/20 A61M A61M5/165 A61M5/31

A61M5/32 A61M5/34

International (IPC 1-7): A61M5/31 A61M5/32 A61M5/34**CPC:** A61M2005/3128 A61M5/31 A61M5/3145 A61M5/32 A61M5/3202

A61M5/3293 A61M5/34 A61M5/344

US: 1/1 604/190**Family:**

Publication number	Publication date	Application number	Application date
AU2016346622 AA	20180531	AU20160346622	20161027
AU2016346622 BB	20190926	AU20160346622	20161027
BR112018008472 A2	20181106	BR20181108472	20161027
CA3001541 AA	20180410	CA20163001541	20161027
CL2018001158 A1	20181005	CL20180001158	20180430
CN108348689 A	20180731	CN201680063655	20161027
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EP3369448 A1	20180905	EP20160860223	20161027
EP3369448 A4	20190717	EP20160860223	20161027
HK1259335 A1	20191129	HK20190101701	20190131
ID201809430 A	20180831	ID2018PID03867	20161027
IN201817019358 A	20180921	IN201817019358	20180523
JP2018531720 T2	20181101	JP20180521380T	20161027
JP6591065 B2	20191016	JP20180521380T	20161027
KR101691308 B1	20161229	KR20150152688	20151030
MX2018005401 A1	20180905	MX20180005401	20161027
NZ742328 A	20200131	NZ20160742328	20161027
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SG11201803130Y A1	20180530	SG20181103130	20161027
US2018304022 AA	20181025	US20160768598	20161027
WO17074040 A1	20170504	WO2016KR12119	20161027
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Priority:

KR20150152688 20151030 WO2016KR12119 20161027

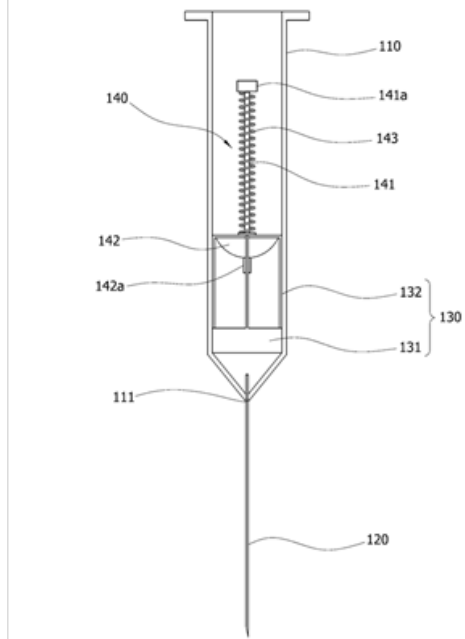
Probable Assignee: RAYONG COUNTRY**Assignee(s):** (std): RA YONG KUK ; YONG KUK RA**Assignee(s):** RAYONG COUNTRY ; PA ЙОНГ КУК ; 라 옹국 ; 라 옹-국 ; 罗镛国 ; 羅鑄國 ; 라용국**Inventor(s):** (std): RA YONG KUK ; YONG KUK RA**Inventor(s):** PA ЙОНГ КУК ; 라 옹국 ; 라 옹-국 ; 罗镛国 ; 羅鑄國 ; 라용국**Agent(s):** ALESSANDRI AND COMPANIA LIMITADA; CHINA PATENT AGENT HK LTD; DOI KENJI; DR TOETI HERATY N ROOSSENO; GRIFFITH HACK; HAYASHI TSUNENORI; JESUS MARIA MENDEZ BERMUDEZ; LAMINAR IP PTY LTD; MAENG SEON HO; MOFFAT AND CO; WILSON GUNN; YURIDICHESKAYA GORODISSKIY I PARTNER OOO FA; ЮРИДИЧЕСКАЯ ФИРМА ГОРОДИССКИЙ И ПАРТНЕРЫ ООО; 丁文鑑; 北京银龙知识产权代理有限公司 11243; 土井 健二; 林 恒德; 金成哲; 맹선호**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 KM KN KP KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**6) Family number: 76109676 (KR20190114560 A)**

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Title: FILTERING NEEDLE SETS FOR SYRINGES

Abstract: Disclosed is a filtering needle set for a syringe, which is capable of being simply coupled to an ordinary syringe cylinder to be generally used, using an injection liquid injected into a vial with a rubber packing as well as a glass ampule, and sucking the injection liquid from the syringe cylinder at the same condition as that of the ordinary syringe. According to the present invention, the filtering needle set for a syringe comprises: a needle coupling cap detachably coupled to the front end of the syringe; a needle coupled to the needle coupling cap to communicate with the needle coupling cap; a guiding case inserted into and coupled to the needle coupling cap; and a filter unit slid in and coupled to the inside of the needle coupling cap, maintaining a state of being spaced apart from a needle at a predetermined distance when a plunger is retracted to suck the injection liquid into the cylinder, slid toward the needle along the guiding case by the pressure of the injection liquid discharged from the cylinder to the coupling cap when the plunger is advanced to discharge the injection liquid to the outside of the cylinder so that injection liquid discharge hole having a filter mounted therein is connected to communicate with the needle, and thus allowing the injection liquid to be filtered through the filter and injected into a human body through the needle.

Classifications:**International (IPC 8-9):** A61M5/31 A61M5/34**CPC:** A61M2205/7545 A61M5/3145 A61M5/34

**Family:**

Publication number	Publication date	Application number	Application date
KR102124692 B1	20200618	KR20180037465	20180330
KR20190114560 A	20191010	KR20180037465	20180330

Priority:

KR20180037465 20180330

Probable Assignee:

JUNG JUN YOUNG

Assignee(s): (std):

JOUNG JUN YOUNG

Assignee(s):

JUNG JUN YOUNG ; 정준영

Inventor(s): (std):

JOUNG JUN YOUNG

Inventor(s):

정준영

Agent(s):

이재만

7) Family number: 64741654 (WO17209378 A1)

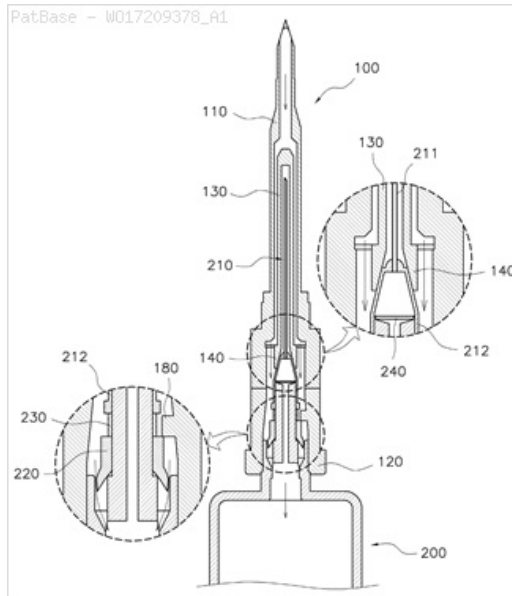
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Title: OUTER CAP OF MEDICINAL FLUID INJECTION INSTRUMENT

Abstract: The present invention relates to an outer cap of a medicinal fluid injection instrument and, specifically, to a device for reliably forming negative pressure at an injection channel when a medicinal fluid is suctioned and particularly, preventing the medicinal fluid from infiltrating an injection needle by reliably sealing the space between the inner circumferential surface of an outer cap and the circumferential surface of a medicinal fluid injection instrument since the outer cap, which temporarily forms a suction channel only during suctioning of the medicinal fluid but is removed so as to open the injection channel when the medicinal fluid is injected, is improved in the medicinal fluid injection instrument comprising a filter for filtering out foreign matter contained in the medicinal fluid. An outer cap (100) has a suction needle (110) suctioning a medicinal fluid and a cap hub (120) maintaining the sealing of the medicinal fluid injection instrument (200) so as to be coupled thereto, and has an inner space formed from the suction needle (110) to the cap hub (120), wherein an injection needle accommodating part (130) for accommodating the injection needle (210) according to the assembly of the medicinal fluid injection instrument (200) is formed in the inner space, and a sealing means for maintaining the sealing of a space between the inner space and the injection needle accommodating part (130) by coming into contact with the circumferential surface of the medicinal fluid injection instrument (200) according to the assembly of the medicinal fluid injection instrument (200) is provided at the entrance of the injection needle accommodating part (130), and thus the medicinal fluid injection instrument comprising a filter more reliably suctions the medicinal fluid and, particularly, the contamination of the injection needle caused by the medicinal fluid before filtration is fundamentally prevented, thereby enabling the marketability of the medicinal fluid injection instrument comprising a filter, and user safety to be maximized.

Classifications:**International (IPC 8-9):** A61M A61M5/31 A61M5/32**International (IPC 1-7):** A61M5/31 A61M5/32**CPC:** A61M2005/3109 A61M2005/312 A61M2005/3128

A61M2205/0216 A61M5/3145 A61M5/3202

**Family:**

Publication number	Publication date	Application number	Application date
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BR112018074790 A2	20190312	BR20181174790	20170227
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