



(43) International Publication Date
13 September 2012 (13.09.2012)

(51) International Patent Classification:

A61M 5/34 (2006.01) *A61M 5/50* (2006.01)
A61M 5/315 (2006.01)

(21) International Application Number:

PCT/US2012/027925

(22) International Filing Date:

6 March 2012 (06.03.2012)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/449,998 7 March 2011 (07.03.2011) US

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

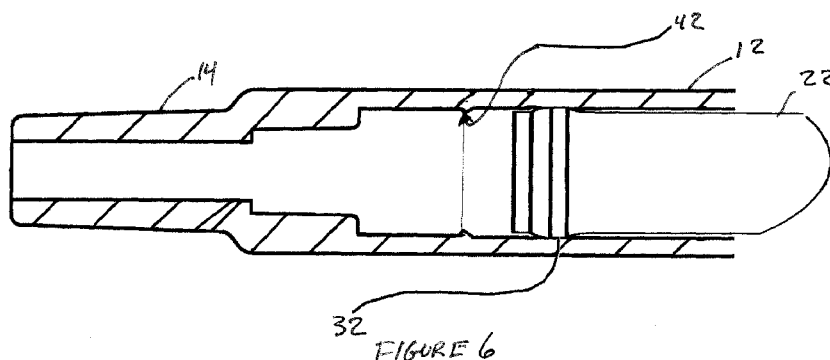
Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(88) Date of publication of the international search report:

22 November 2012

(54) Title: RETRACTABLE SYRINGE WITH LOCKING PLUNGER



(57) Abstract: A retractable needle syringe having a plunger rod configured to lock in place after retraction of the needle. The plunger rod distal end has a seal configured to advance past a retaining ledge after retraction of the needle, whereby the retaining ledge restricts or inhibits the plunger from proximal movement.



INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/027925**A. CLASSIFICATION OF SUBJECT MATTER*****A61M 5/34(2006.01)i, A61M 5/315(2006.01)i, A61M 5/50(2006.01)i***

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

A61M 5/34; A61M 5/50; A61M 5/00; A61M 5/178

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: safety syringe, plunger, rod, lock, retain, disposable, retract

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	KR 10-0629274 B1 (CHOI) 02 October 2006	1
A	See the abstract; claims 1-3; page 4, lines 4-7; and fig. 2.	2-15
Y	EP 1106194 A1 (EURO-CHINA FARMA, S.L.) 13 June 2001	1
	See the abstract; claim 1; and fig. 1.	
A	US 6485459 B1 (SUROWITZ) 26 November 2002	1-15
	See the abstract; claim 1; column 3, lines 1-4; and fig. 1.	
A	US 05531693 A (VOUNATSOS) 02 July 1996	1-15
	See the abstract; claim 1; and fig. 1.	

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

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"A" document defining the general state of the art which is not considered to be of particular relevance

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"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&" document member of the same patent family

Date of the actual completion of the international search

27 SEPTEMBER 2012 (27.09.2012)

Date of mailing of the international search report

28 SEPTEMBER 2012 (28.09.2012)

Name and mailing address of the ISA/KR

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City, 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2012/027925

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
KR 10-0629274 B1	02.10.2006	None	
EP 1106194 A1	13.06.2001	None	
US 6485459 B1	26.11.2002	None	
US 05531693 A	02.07.1996	EP 0649320 A1	12.11.1997
		EP 0649320 B1	11.08.1999
		WO 93-20873 A1	28.10.1993