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- (71) **Applicant:** ALLERGAN, INC. [US/US]; 2525 Dupont Drive, Irvine, California 92612 (US).
- (72) **Inventors:** SCHWAB, Justin J.; 25 Celine Drive, Santa Barbara, California 93105 (US). KAYDA, Edwin J.; 211 Vista Del Mar, Santa Barbara, California 93109 (US). DOMINGUEZ, Zachary P.; 210 Bath Street, Santa Barbara, California 93101 (US). MUDD, Christopher S.; 5477 Ralston Street #201, Ventura, California 93003 (US).
- (74) **Agents:** FOX, Linda A. et al.; Allergan, Inc., 2525 Dupont Drive, Irvine, California 92612 (US).
- (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, BN, 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, IR, IS, JP, KE, KG, 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, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, 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.

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**Declarations under Rule 4.17:**

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

**Published:**

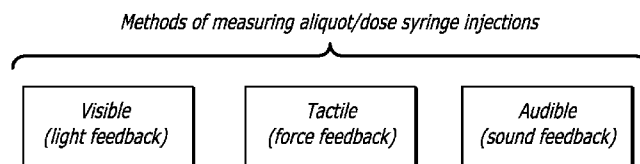
- *with international search report (Art. 21(3))*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

- (88) **Date of publication of the international search report:**  
15 January 2015



WO 2014/190222 A3

(54) **Title:** MECHANICAL SYRINGE ACCESSORY



**FIG. 1**

(57) **Abstract:** Described herein are syringe accessories that can be attached to standard syringes. These accessories utilize one or more mechanisms that can provide at least one additional sensory feedback to the user when performing an aliquot or dosed injection. In other embodiments, the accessories can prevent overdosing.

**INTERNATIONAL SEARCH REPORT**

International application No  
PCT/US2014/039263

**A. CLASSIFICATION OF SUBJECT MATTER**  
INV. A61M5/315  
ADD.  
  
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  
  
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
EPO-Internal, WPI Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2006/133111 A2 (STC UNM [US]; SIBBITT WILMER L JR [US]; MICHAEL ADRIAN A [US]) 14 December 2006 (2006-12-14) paragraph [0066] - paragraph [0082]; figures 1-11	1-10
X	US 3 161 323 A (BENT JOHN H) 15 December 1964 (1964-12-15) column 1, line 8 - column 5, line 52; figures 1-5	1-10
X	US 2012/123194 A1 (BECKMAN ANDREW T [US] ET AL) 17 May 2012 (2012-05-17) paragraph [0045] - paragraph [0046]; figure 10	1-10
X	FR 53 011 E (JOCELY-EMILE OLLIVIER) 6 September 1945 (1945-09-06) page 2, line 7 - line 92; figures 1-8	1,5-10

Further documents are listed in the continuation of Box C.

See patent family annex.

\* Special categories of cited documents :

<p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier application or patent but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p>	<p>"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</p> <p>"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</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</p> <p>"&amp;" document member of the same patent family</p>
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Date of the actual completion of the international search  20 August 2014	Date of mailing of the international search report  18/11/2014
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Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer  Knaus-Reinbold, S
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# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US2014/039263

## Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
2.  Claims Nos.: 18-24  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:  
see FURTHER INFORMATION sheet PCT/ISA/210
  
3.  Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1.  As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
  
2.  As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
  
3.  As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
  
4.  No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:  
1-10

### Remark on Protest

- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- No protest accompanied the payment of additional search fees.

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No

PCT/US2014/039263

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2006133111 A2	14-12-2006	US 2007016144 A1 WO 2006133111 A2	18-01-2007 14-12-2006
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US 3161323 A	15-12-1964	NONE	
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US 2012123194 A1	17-05-2012	US 2012123194 A1 WO 2012064831 A1	17-05-2012 18-05-2012
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FR 53011 E	06-09-1945	NONE	
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**FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210**

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

## 1. claims: 1-10

These claims essentially define an accessory for a syringe comprising:

- a finger portion configured to attach to the body of the syringe wherein the finger portion includes a track guide including a lever arm;
- a track configured to insert through the track guide including valleys separated by a distance;
- a plunger interface configured to attach the track to a plunger of the syringe; wherein the distance corresponds to a pre-determined dose of a substance housed in the syringe (technical problem: to provide an accessory for a syringe to facilitate aliquot dosing).

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## 2. claims: 11-17

These claims essentially define an accessory for a syringe comprising:

- a shaft including features that are configured to define at least one dose increment and having a horizontal degree of freedom,
- a rotating traveler including a horizontal degree of freedom and a vertical degree of freedom; and
- a fixed ratchet including valleys configured to engage the rotating traveler, and wherein the fixed ratchet does not interact with the rotating traveler, and wherein the shaft is at least partially attached to a plunger of the syringe (technical problem: to provide in an alternative way an accessory for a syringe to facilitate aliquot dosing).

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**FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210**

Continuation of Box II.2

Claims Nos.: 18-24

The method of claims 18 to 24 is carried out within a human body. As stated in the claims, the method relates to inject an aliquot dose which is ejecting a medicament into the human body.

Consequently, the method defined in claims 18 to 24 is considered as a method for the treatment of the human body by therapy. The application does not meet the requirement of Rule 39.1)iv), because these claims are a method of treatment of the human body.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guidelines C-IV, 7.2), should the problems which led to the Article 17(2) declaration be overcome.