

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
12 April 2007 (12.04.2007)

PCT

(10) International Publication Number
WO 2007/041069 A3

(51) International Patent Classification:

C12Q 1/54 (2006.01)

(21) International Application Number:

PCT/US2006/037307

(22) International Filing Date:

25 September 2006 (25.09.2006)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

11/240,258 30 September 2005 (30.09.2005) US

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

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, 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, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

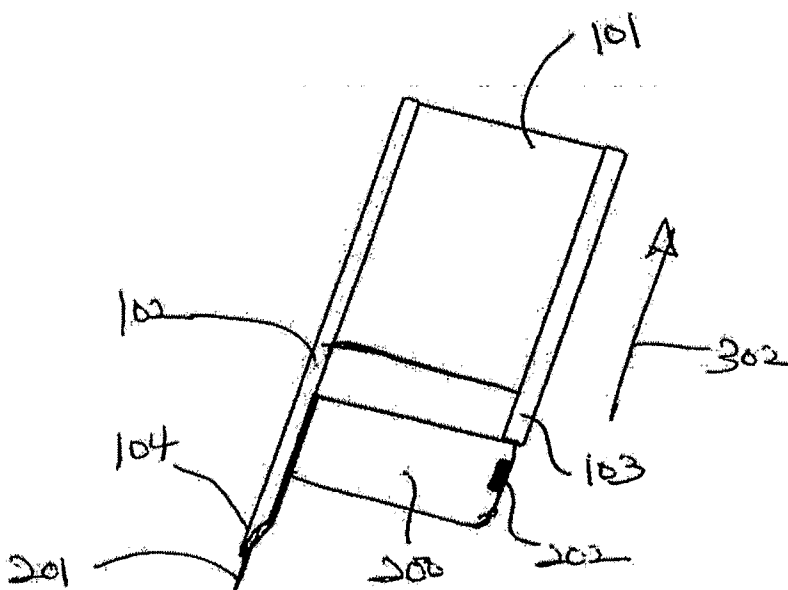
- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

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

21 June 2007

[Continued on next page]

(54) Title: ANALYTE SENSOR RETENTION MECHANISM AND METHODS OF USE



(57) Abstract: An apparatus retains a biomedical sensor as an aid to accurately position during transcutaneous introduction. A retention mechanism holds the sensor in pre-deployment position within the introducer when the sensor insertion mechanism is activated to facilitate sensor insertion. The sensor can include a retention segment configured to physically cooperate with the inner walls of the introducer such that the sensor is retained in position in a introducer housing using friction.

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 06/37307

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - C12Q 1/54 (2007.01)

USPC - 600/347

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)

USPC - 600/347

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC 600/347, 345, 435/14, 283.1, 287.1, 702/23, 204/403.1, 604/19 (see keywords below)

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

PubWest (USPT, PGPB, EPAB, JPAB); DialogPro(Engineering); Google Patents

Search Terms: insertion device, sensor, analyte, glucose monitor, insulin, insertion gun, continuous monitoring, in vivo, glucose sensor, mazza, abbott.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/0212345 A1 (McAllister) 13 November 2003 (13.11.2003), para [0083], [0063], [0002], [0064], abstract.	1-3, 7-13, 15-17
Y		4-6 and 14
X	US 6,175,752 B1 (Say) 16 January 2001 (16.01.2001), col 28, ln 26-27, col 28, ln 32-36, col 29, ln 7-9, and figure 26.	18-20
Y		4-6 and 14

☐ Further documents are listed in the continuation of Box C.

* Special categories of cited documents:

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

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"&" document member of the same patent family

Date of the actual completion of the international search

1 March 2007 (01.03.2007)

Date of mailing of the international search report

30 APR 2007

Name and mailing address of the ISA/US

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P.O. Box 1450, Alexandria, Virginia 22313-1450

Facsimile No. 571-273-3201

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PCT OSP: 571-272-7774