

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
18 May 2007 (18.05.2007)

PCT

(10) International Publication Number
WO 2007/056638 A3

(51) International Patent Classification:
A61B 5/00 (2006.01)

(21) International Application Number:
PCT/US2006/060394

(22) International Filing Date: 31 October 2006 (31.10.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
11/267,724 4 November 2005 (04.11.2005) US

(71) Applicant (for all designated States except US): **ABBOTT DIABETES CARE, INC.** [US/US]; 1360 South Loop Road, Alameda, CA 94502 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SLOAN, Mark** [US/US]; 1277 Stanhope Lane, Hayward, CA 94545 (US). **HAYTER, Gary** [US/US]; 4409 Harbord Drive, Oakland, CA 94618 (US).

(74) Agent: **OH, Kuni**; Jackson & Co., LLP, 6114 La Salle Ave., #507, Oakland, CA 94611-2802 (US).

(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, GT, 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:
8 November 2007

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.



WO 2007/056638 A3

(54) Title: METHOD AND SYSTEM FOR PROVIDING BASAL PROFILE MODIFICATION IN ANALYTE MONITORING AND MANAGEMENT SYSTEMS

(57) Abstract: Method and system for providing basal profile modification in insulin therapy for use with infusion devices includes periodically monitoring the analyte levels of a patient for a predetermined period of time in order to determine, based on the monitored analyte levels, an appropriate modification factor to be incorporated into the underlying basal profile which was running at the time the periodic monitoring of the analyte levels were performed.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US06/60394

A. CLASSIFICATION OF SUBJECT MATTER
 IPC(8) - A61B 5/00 (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)
 IPC(8) - A61B 5/00 (2007.01)
 USPC - 600/347

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)
 MicroPatent

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X — Y	US 6,895,265 B2 (SILVER) 17 May 2005 (17.05.2005) entire document	1-5, 7, 9-14, 18
Y	US 2004/0176672 A1 (SILVER et al) 09 September 2004 (09.09.2004) entire document	6, 8, 15-17
Y	US 2004/0176672 A1 (SILVER et al) 09 September 2004 (09.09.2004) entire document	6, 17
Y	US 6,579,690 B1 (BONNECAZE et al) 17 June 2003 (17.06.2003) entire document	8, 15-16

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
 - “E” earlier application or patent but published on or after the international filing date
 - “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)
 - “O” document referring to an oral disclosure, use, exhibition or other means
 - “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
 - “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
 - “&” document member of the same patent family

Date of the actual completion of the international search 19 July 2007	Date of mailing of the international search report 12 SEP 2007
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Authorized officer: Blaine R. Copenheaver PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774