

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
6 September 2002 (06.09.2002)

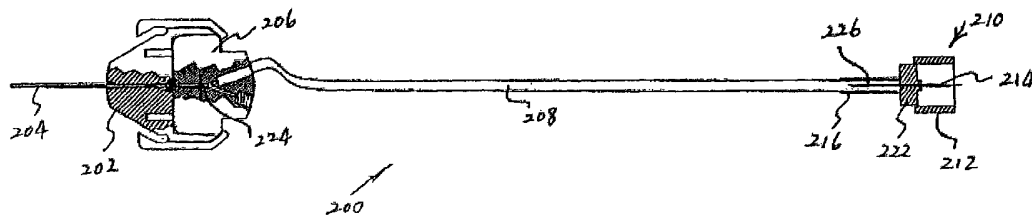
PCT

(10) International Publication Number
WO 02/068014 A3

- (51) International Patent Classification⁷: A61M 25/16
- (21) International Application Number: PCT/US02/03382
- (22) International Filing Date: 15 February 2002 (15.02.2002)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/271,079 26 February 2001 (26.02.2001) US
09/933,452 20 August 2001 (20.08.2001) US
10/076,907 13 February 2002 (13.02.2002) US
- (71) Applicant: STERLING MEDIVATIONS, INC.
[US/US]; 6025A Unity Drive, Norcross, GA 30071 (US).
- (72) Inventors: DOUGLAS, Joel, S.; 25285 La Loma Drive, Los Altos, CA 94022 (US). HUGO, Robert, L.; 1923 St. Andrews Circle, Gilroy, CA 95020 (US). ZHANG, Cynthia; Saratoga, CA (US).
- (74) Agent: HECKADON, David, R.; BURNS, DOANE, SWECKER & MATHIS, LLP., P.O. Box 1404, Alexandria, VA 22314-1404 (US).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (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:
31 October 2002
- 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.*



(54) Title: SUBCUTANEOUS INJECTION SET WITH SECONDARY INJECTION SEPTUM



(57) Abstract: An infusion system (200), comprising a housing (202); and a connecting hub (206) which is attachable to the housing (202), the connecting hub (206) having an internal Y-shaped flow channel structure which comprises a first flow channel (290) exiting the distal end of the connecting hub; a second flow channel (505) exiting the proximal end of the connecting hub; and a third flow channel (286) exiting the proximal end of the connecting hub, the first, second and third flow channels (290, 505, 286) all intersecting within the connecting hub.

WO 02/068014 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/03382

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61M 25/16
 US CL : 604/539

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)
 U.S. : 604/539, 284, 523, 533, 534, 535, 538, 93.01

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
 NONE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 NONE


C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,338,314 A (RYAN) 16 August 1994 (16.08.1994), column 5, lines 22-47.	1-8, 11-17 and 19-23
X	US 5,344,414 A (LOPEZ et al.) 06 September 1994 (06.09.1994), column 7, line 20 - column 8, line 8.	1, 9, 10

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

* Special categories of cited documents:	"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
"A" document defining the general state of the art which is not considered to be of particular relevance	"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
"E" earlier application or patent published on or after the international filing date	"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
"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)	"&" document member of the same patent family
"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	

Date of the actual completion of the international search 15 June 2002 (15.06.2002)	Date of mailing of the international search report 18 SEP 2002
--	--

Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703) 305-3230	Authorized officer ANN YEN LAM  Telephone No. (703) 306-5560
---	---