(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 23 May 2002 (23.05.2002)

PCT

C12Q 1/68,

(10) International Publication Number WO 02/040699 A3

C12M 1/00

(21) International Application Number: PCT/US01/44284

(22) International Filing Date:

(51) International Patent Classification7:

14 November 2001 (14.11.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 60/248,876 15 November 2000 (15.11.2000) US

(71) Applicant (for all designated States except US): WHAT-MAN, INC. [US/US]; 200 Wells Avenue, Newton, MA 02459-3304 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): PHILPOTT, Richard [GB/GB]; Accunen Bioscience Ltd., The Technology Partneship, Melbourne Science Park, Cambridge Road, Melbourne, Royston, Herts SG8 6EE (GB). SMITH, Martin, A. [US/US]; 127 Browne Street, Brookline, MA 02146 (US). IGOE, Frank, D. [US/US]; 321 Fisher Street, Walpole, MA 02081 (US). DAVIS, James, C. [US/US]; 2 Autumn Lane, Kingstone, MA 02304 (US).

- (74) Agent: CONLIN, David, G.; DBRC, Intellectual Property Practice Group of Edwards & Angell, LLP, P.O. Box 9169, Boston, MA 02209 (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, 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, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, 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

(88) Date of publication of the international search report:
7 November 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.



WO 02/040699 A3

(54) Title: SAMPLING AND STORAGE SYSTEM FOR GENETIC MATERIAL FROM TISSUE

(57) Abstract: The invention relates to methods, a kit, and an apparatus for detecting and analyzing genetic material from a biological sample. The method can be used to analyze samples from a wide variety of sources, including tissues, blood, plasma, sera, mucus, urine, saliva, sweat, semen, and cultures, as well as analyzing samples of contaminated water, food, beverages, and other items

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/44284

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : C12Q 1/68; C12M 1/00 US CL : 435/6, 307.1, 308.1, 91.2 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.: 435/6, 307.1, 308.1, 91.2 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) Please See Continuation Sheet					
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.		
X	US 5,807,527 A (BURGOYNE) 15 September 1998		1-6		
	especially column 4, lines 25-31, and column 6.				
Y			7-33		
Y US 6,054,277 A (FURCHT et al.) 25 April 2000 (25.04.2000), column 2, lines 53-56; column 4, lines 58-67, column 9.		1-33			
Y			1-33		
X	US 5,811,061 A (MARTINSON et al.) 22 September Figure 1 and Figure 2, column 2, column 6.	er 1998 (22.09.1998), see especially	1-33		
Further	documents are listed in the continuation of Box C.	See patent family annex.			
* S	pecial categories of cited documents:	"T" later document published after the inte date and not in conflict with the applic			
	defining the general state of the art which is not considered to be	principle or theory underlying the inve	ention		
"E" earlier ap	plication or patent published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be consider when the document is taken alone			
establish specified)	which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	"Y" document of particular relevance; the considered to involve an inventive step combined with one or more other such	when the document is		
"O" document	referring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in the			
"P" document published prior to the international filing date but later than the "&" document member of the same patent family priority date claimed					
Date of the actual completion of the international search Date of mailing of the international search report					
09 July 2002 (09.07.2002) 23 JUL 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 Lisa Athur Telephone No. 703-308-0196					

	INTERNATIONAL SEARCH REPORT	PCT/US01/44284	/
		1	
			ł
	Continuation of B. FIELDS SEARCHED Item 3: WEST, CAPLUS, MEDLINE, BIOSIS search terms: blood, leukocytes, filter, FTA, DNA		
The second secon			

International application No.