

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
11 July 2002 (11.07.2002)

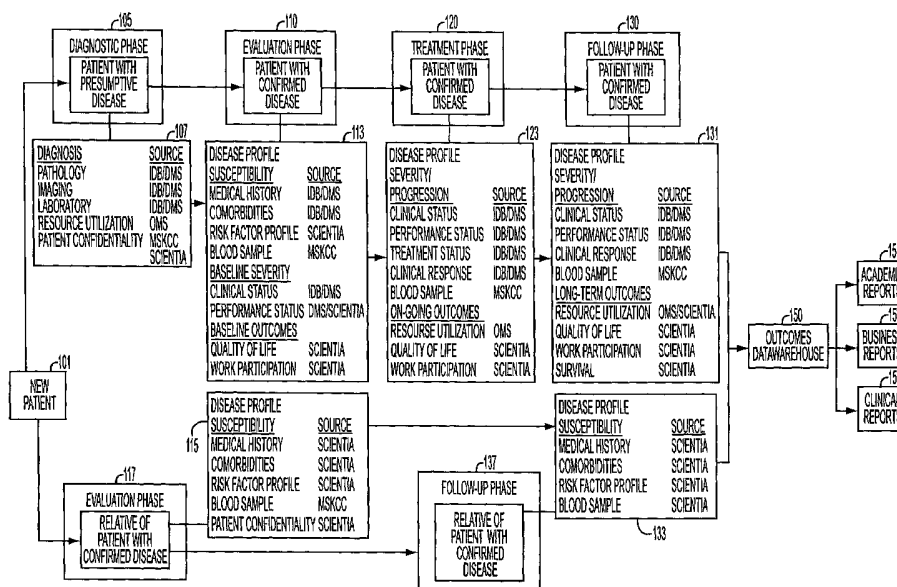
PCT

(10) International Publication Number
WO 02/054187 A3

- (51) International Patent Classification⁷: **G06F 17/60**
- (21) International Application Number: PCT/US02/00452
- (22) International Filing Date: 3 January 2002 (03.01.2002)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
09/754,743 4 January 2001 (04.01.2001) US
- (71) Applicant: **SCIENTIA, INC.** [US/US]; 812 Arden Road, Pasadena, CA 91106 (US).
- (72) Inventors: **LEVEQUE, Joseph, A.**; 3912 North Old Toll Road, Altadena, CA 91001 (US). **FRYMARK, Lori, Dolan**; 812 Arden Road, Pasadena, CA 91106 (US). **LIND, Douglas, D.**; 19 East 73rd Street, New York, NY 10021 (US).
- (74) Agents: **BYRNE, Matthew, T.** et al.; c/o Shearman & Sterling, Intellectual Property Docketing, 599 Lexington Avenue, New York, NY 10022 (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
- (88) Date of publication of the international search report:
30 May 2003

[Continued on next page]

(54) Title: COLLECTING AND MANAGING CLINICAL INFORMATION



(57) Abstract: The present system includes the aggregation, anonymization (150), analysis, and dissemination of information including susceptibility, progression, severity of disease (113, 115, 123, 131), the resources utilized to treat those diseases (107), quality of life of patients who have those diseases, ability to participate in the workforce and, ultimately, survival. This information, when analyzed for patients along with relatives of those patients, provides an understanding of why genetically similar or identical patients express diseases differently (137). Collecting the information and linking that information to genotypic information provides a determination of role the genetic makeup of an individual plays in disease contraction, treatment and outcome (150, 151, 153, 157).



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/US02/00452

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G06F 17/60

US CL : 705/3

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. : 705/1,2,3,7,8

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)
Clinical information, longitudinal medical, medical information, management, phenotype, genetic.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,594,638 (ILIFF) A 14 January 1997 (14.01.1997), see entire document.	1-43
Y	US 6,108,635 A (HERREN et al) 22 August 2000 (22.08.2000), see entire document.	1-43
Y,P	US 6,188,988 B1 (BARRY et al) 13 February 2001 (13.02.2001), see entire document.	1-43
Y,P	US 2001/0039503 A1 (CHAN et al) 08 November 2001 (08.11.2001), see entire document.	1-43
Y,E	US 2002/0022975 A1 (BLASINGAME et al) 21 February 2002 (21.02.2002), see entire document.	1-43

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

☐ See patent family annex.

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"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
"E" earlier application or patent published on or after the international filing date	"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
"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)	"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
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"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

16 August 2002 (16.08.2002)

Date of mailing of the international search report

25 FEB 2003

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

Emanuel T. Voeltz
Telephone No. 703-305-3900

Diana Smutz

INTERNATIONAL SEARCH REPORT

PCT/US02/00452

C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y,E	US 2002/0049615 A1 (HUBER) 25 April 2002 (25.04.2002), see entire document.	1-43