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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
19 April 2001 (19.04.2001)

PCT

(10) International Publication Number
WO 2001/027793 A3

(51) International Patent Classification[7]: G06F 17/30

(21) International Application Number:
PCT/US2000/021020

(22) International Filing Date: 1 August 2000 (01.08.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09/419,405 14 October 1999 (14.10.1999) US
09/575,974 23 May 2000 (23.05.2000) US

(71) Applicant: **360 POWERED CORPORATION** [US/US]; Suite 300, 190 Queen Anne, Seattle, WA 98109 (US).

(72) Inventors: **TRIPP, Gary, W.**; 9836 Miller Road, Bainbridge Island, WA 98110 (US). **MEADWAY, Michael, D.**; 1803-129th Place Southeast, Snohomish, WA 98110 (US). **DUGUAY, Claude, E.**; 2835 Boyer Avenue East, Seattle, WA 98102 (US).

(74) Agents: **HALEY, Jeffrey, T.** et al.; Graybeal Jackson Haley LLP, Suite 350, 155-108th Avenue N.E., Bellevue, WA 98004-5901 (US).

(81) Designated States *(national)*: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, 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, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, 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), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, 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 January 2004

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: INDEXING A NETWORK WITH AGENTS

(57) Abstract: A search engine utilizes a bottom-up approach to index the content of a network with agent programs running on each source computer instead of relying on a top-down approach as used by conventional search engines. The network being indexed may be any network, including the global computer network or an intranet. Instead of using a central site including spidering software to recursively search all linked web pages and generate a search index of the Internet, independent distributed components or agent programs are located at each web site and report meta data about objects at the web site to the central server. A central catalog of object references is compiled on the central site or sites from the meta data reported from each web site. One or more brochure files may also be created and stored on each web site to provide conceptual or non-key-word data about the site, such as target demographics and categorization information. This conceptual information is then utilized in constructing the central catalog so that more accurate search results may be generated for search queries applied to the catalog.

WO 2001/027793 A3

INTERNATIONAL SEARCH REPORT

Internati[illegible]lication No
PCT/US 00/21020

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G06F17/30

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 7 G06F

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 practical, search terms used)
EPO-Internal, COMPENDEX, IBM-TDB, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	BOWMAN C M ET AL: "The Harvest information discovery and access system" COMPUTER NETWORKS AND ISDN SYSTEMS, NORTH HOLLAND PUBLISHING. AMSTERDAM, NL, vol. 28, no. 1, 1 December 1995 (1995-12-01), pages 119-125, XP004001217 ISSN: 0169-7552 page 119-125, paragraphs 1-4 page 120, right-hand column, line 17-39, paragraph 2 page 121, right-hand column, line 6-16, paragraph 3; figure 1 page 122, left-hand column, line 1, paragraph 3 -page 123, left-hand column, line 21, paragraph 4 page 124, left-hand column, line 30-32, paragraph 4.5 --- -/--	1-84

[X] Further documents are listed in the continuation of box C.

[X] Patent family members are listed in annex.

° 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 document 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	Date of mailing of the international search report
30 October 2003	11/11/2003

Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Pasini, E

Form PCT/ISA/210 (second sheet) (July 1992)

INTERNATIONAL SEARCH REPORT

Internati Application No
PCT/US 00/21020

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication,where appropriate, of the relevant passages	Relevant to claim No.
X	VALKENBURG P ET AL: "Standards in the CHIC-Pilot distributed indexing architecture" COMPUTER NETWORKS AND ISDN SYSTEMS, NORTH HOLLAND PUBLISHING. AMSTERDAM, NL, vol. 30, no. 16-18, 30 September 1998 (1998-09-30), pages 1571-1578, XP004138688 ISSN: 0169-7552 page 1571, paragraphs 1,2,3.2,3.3 -page 1577 page 1572, right-hand column, line 1-21 page 1573; table 1 page 1573, left-hand column, line 23-28 ---	1-84
X	SCLAROFF S ET AL: "ImageRover: a content-based image browser for the World Wide Web" CONTENT-BASED ACCESS OF IMAGE AND VIDEO LIBRARIES, 1997. PROCEEDINGS IEEE WORKSHOP ON SAN JUAN, PUERTO RICO 20 JUNE 1997, LOS ALAMITOS, CA, USA,IEEE COMPUT. SOC, US, 1997, pages 2-9, XP010252097 ISBN: 0-8186-7981-6 page 2-6, paragraphs ABSTRACT,1,3, page 4, left-hand column, paragraph FIGURE1; figure 1 page 4, left-hand column, line 3-9, paragraph 3 ---	1-84
A	SUBRAMANYA S R ET AL: "Use of transforms for indexing in audio databases" COMPUTATIONAL INTELLIGENCE AND MULTIMEDIA APPLICATIONS, 1999. ICCIMA '99. PROCEEDINGS. THIRD INTERNATIONAL CONFERENCE ON NEW DELHI, INDIA 23-26 SEPT. 1999, LOS ALAMITOS, CA, USA,IEEE COMPUT. SOC, US, 23 September 1999 (1999-09-23), pages 278-284, XP010355660 ISBN: 0-7695-0300-4 page 278, line 1, paragraph ABSTRACT -page 279, line 34, paragraph 3.1 --- -/--	7,9,37, 41,44, 45,47

INTERNATIONAL SEARCH REPORT

Internati plication No
PCT/US 00/21020

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	HAN K J ET AL: "Fast polynomial regression transform for video database" IMAGE PROCESSING, 1998. ICIP 98. PROCEEDINGS. 1998 INTERNATIONAL CONFERENCE ON CHICAGO, IL, USA 4-7 OCT. 1998, LOS ALAMITOS, CA, USA,IEEE COMPUT. SOC, US, 4 October 1998 (1998-10-04), pages 143-147, XP010586872 ISBN: 0-8186-8821-1 page 143, paragraphs ABSTRACT,1 page 143, left-hand column, line 33-37 page 143, right-hand column, line 15-36 ---	7,8,37, 40,45, 46,48,49
A	EP 0 899 662 A (HEWLETT PACKARD CO) 3 March 1999 (1999-03-03) column 7, line 25-55 ---	13,25, 70,77
A	US 5 933 832 A (KANNO SHIN-ICHI ET AL) 3 August 1999 (1999-08-03) column 3, line 62-67 column 4, line 49-54 -----	33,81

INTERNATIONAL SEARCH REPORT

Information on patent family members

Internat ›lication No
PCT/US 00/21020

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0899662 A	03-03-1999	EP 0899662 A1	03-03-1999
		DE 69802294 D1	06-12-2001
		DE 69802294 T2	16-05-2002
		EP 1008048 A1	14-06-2000
		WO 9912098 A1	11-03-1999
US 5933832 A	03-08-1999	NONE	