(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 27 July 2000 (27.07.2000)

PCT

(10) International Publication Number WO 00/43917 A3

(51) International Patent Classification⁷: G06F 17/30,

(21) International Application Number: PCT/US00/01498

(22) International Filing Date: 20 January 2000 (20.01.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 09/233,870 20 January 1999 (20.01.1999) US

(71) Applicant: INFORMATION ADVANTAGE [US/US]; 7905 Golden Triangle Drive, Eden Prairie, MN 55344-7227 (US).

(72) Inventors: SCHULTZ, Thomas, W.; 4900 Prescott Circle, Edina, MN 55436 (US). BRADLEY, Mark, C.; 5624 West 136th Street, Savage, MN 55378 (US). HALMRAST, Ted, C.; 7350 Bristol Village Drive, #318, Bloomington, MN 55438 (US). PETERSON, Thomas, Y.; 15038 Iron Hub Road, Aitkin, MN 56431 (US).

(74) Agent: VIKSNINS, Ann, S.; Schwegman, Lundberg, Woessner & Kluth, P.O. Box 2938, Minneapolis, MN 55402 (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, 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.

(88) Date of publication of the international search report: 30 November 2000

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.



A3

(54) Title: SYSTEM AND METHOD OF PRESENTING CHANNELIZED DATA

(57) Abstract: A system and method for presenting data from a plurality of sources to a user. The system includes a plurality of information sources, a user interface, content storage and a server connected to the user interface and the content storage. The user interface selects data from one or more of the plurality of information sources to be indentified as published content and issues content requests to access data identified as published content. The content storage stores published content and the server manages the content requests received from the user interface. The server includes a repository and a content directory, wherein the repository manages a virtual directory structure associated with published content, wherein the content directory maintains a content directory structure pointing to all published content stored in the content storage and wherein the content directory structure is referenced by the virtual directory structure in the repository.

INTERNATIONAL SEARCH REPORT

Inter Yonal Application No PC1/US 00/01498

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G06F17/30 G06F G06F17/60 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, INSPEC C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Υ US 5 768 528 A (STUMM CHRISTIAN) 1-13, 15,16 June 1998 (1998-06-16) 17,20-23 abstract figures 2,3,5,6,9,10 column 1, line 48 -column 1, line 63 column 2, line 31 -column 2, line 45 column 3, line 39 -column 4, line 8 column 5, line 26 -column 5, line 45 column 11, line 31 -column 12, line 21 Y QUINTANA Y: "KNOWLEDGE-BASED INFORMATION 1-13, 15,FILTERING OF FINANCIAL INFORMATION" 17,20-23 PROCEEDINGS OF THE NATIONAL ONLINE MEETING, XX, XX. 13 May 1997 (1997-05-13), pages 279-285, XP002057953 page 282, paragraph 3.1 -page 283. paragraph 3.5 X Further documents are listed in the continuation of box C. Patent family members are listed in 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 "A" document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 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 docu-"O" document referring to an oral disclosure, use, exhibition or other means ments, such combination being obvious to a person skilled in the art. document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 26 July 2000 09/08/2000 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Abbing, R Fax: (+31-70) 340-3016

INTERNATIONAL SEARCH REPORT

Inte Ional Application No PCT/US 00/01498

		PCT/US 00/01498					
C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT							
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.					
A	BENTLEY R ET AL: "Designing a system for cooperative work on the World-Wide Web: experiences with the BSCW system" PROCEEDINGS OF THE THIRTIETH HAWAII INTERNATIONAL CONFERENCE ON SYSTEM SCIENCES (CAT. NO.97TB100234), PROCEEDINGS OF THE THIRTIETH HAWAII INTERNATIONAL CONFERENCE ON SYSTEM SCIENCES, WAILEA, HI, USA, 7-10 JAN. 1997, pages 297-306 vol.4, XP002143468 1997, Los Alamitos, CA, USA, IEEE Comput. Soc. Press, USA ISBN: 0-8186-7743-0 the whole document	1-23					
A	KAMBA T ET AL: "ANATAGONOMY: a personalized newspaper on the World Wide Web" INTERNATIONAL JOURNAL OF HUMAN-COMPUTER STUDIES,US,ACADEMIC PRESS, NEW YORK, NY, vol. 46, 1997, pages 789-803, XP002086827 ISSN: 1071-5819 the whole document	1,2,6-8, 11,14, 16,17					
A	SHKLAR L ET AL: "INFOHARNESS: USE OF AUTOMATICALLY GENERATED METADATA FOR SEARCH AND RETRIEVAL OF HETEROGENEOUS INFORMATION" ADVANCED INFORMATION SYSTEMS ENGINEERING. INTERNATIONAL CONFERENCE, CAISE, XX, XX, 12 June 1995 (1995-06-12), pages 217-230, XP000677759 the whole document	1-3,11, 18,19					
A	WO 97 15018 A (BELL COMMUNICATIONS RES) 24 April 1997 (1997-04-24) abstract page 9, line 3 -page 13, line 7	1,2,11, 12					
A	WIDOM J: "Research problems in data warehousing" PROCEEDINGS OF THE 1995 ACM CIKM INTERNATIONAL CONFERENCE ON INFORMATION AND KNOWLEDGE MANAGEMENT, PROCEEDINGS OF CIKM '95: CONFERENCE ON INFORMATION AND KNOWLEDGE MANAGEMENT, BALTIMORE, MD, USA, 28 NOV2 DEC. 1995, pages 25-30, XP002143469 1995, New York, NY, USA, ACM, USA ISBN: 0-89791-812-6 the whole document	20-23					
A	US 5 761 663 A (LAGARDE KONRAD CHARLES ET AL) 2 June 1998 (1998-06-02) abstract	20-23					

INTERNATIONAL SEARCH REPORT

information on patent family members

Inte Ional Application No PCT/US 00/01498

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5768528	A	16-06-1998	AU 2608397 A WO 9 74 5786 A	05-01-1998 04-12-1997
WO 9715018	A	24-04-1997	NONE	
US 5761663	Α	02-06-1998	US 5710918 A EP 0747844 A JP 9026974 A	20-01-1998 11-12-1996 28-01-1997