

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
30 May 2002 (30.05.2002)

PCT

(10) International Publication Number
WO 02/042863 A3

(51) International Patent Classification⁷: G06F 17/30

(21) International Application Number: PCT/US01/43303

(22) International Filing Date:
20 November 2001 (20.11.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/252,273 21 November 2000 (21.11.2000) US

(71) Applicant (for all designated States except US):
SINGINGFISH.COM [US/US]; 2401 Fourth Avenue,
Suite 400, Seattle, WA 98121 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): SHANNON, Paul,

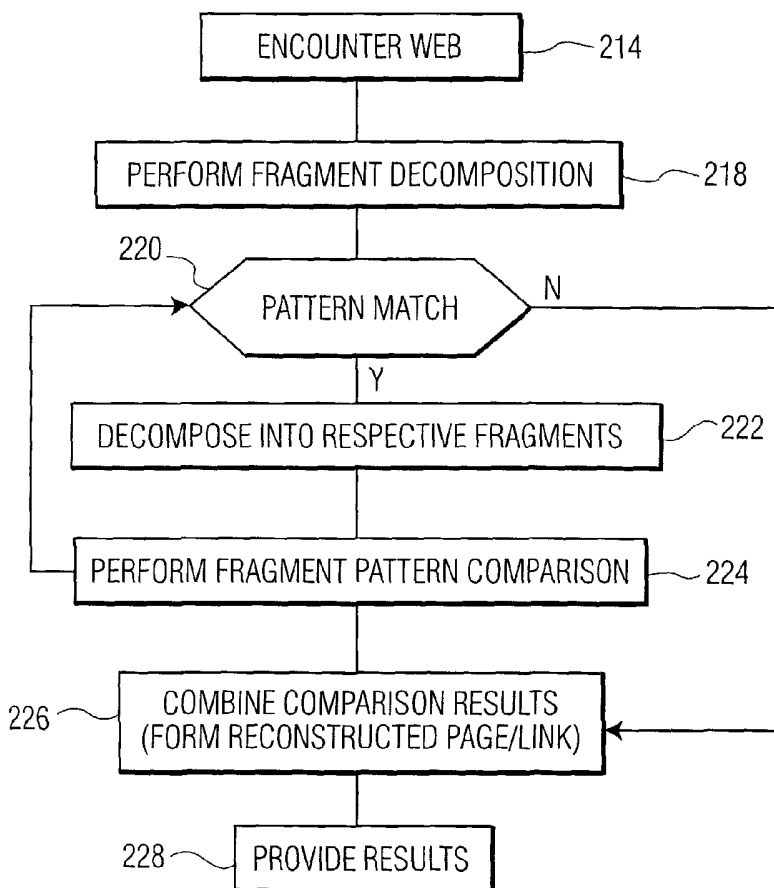
Thurmond [US/US]; 4910 45th Avenue South, Seattle,
WA 98118 (US). MILLER, Brad, Steven [US/US]; 9302
SE 43rd Street, Mercer Island, WA 98040 (US). LEE,
Scott, Chao-Chueh [US/US]; 2031 151 Ave. SE, Belle-
vue, WA 98007 (US). KOLAR, Jennifer, Lynn [US/US];
3626 Fremont Lane N #201, Seattle, WA 98103 (US).

(74) Agents: TRIPOLI, Joseph et al.; Thomson Multimedia
Licensing Inc., P.O. Box 5312, Princeton, NJ 08540 (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, TR, TT, TZ, UA, UG, US, UZ, VN,
YU, ZA, ZW.

[Continued on next page]

(54) Title: A SYSTEM AND PROCESS FOR NETWORK SITE FRAGMENTED SEARCH



(57) Abstract: A system and method for searching a network for target content, such as media files, decompose encountered web pages into frafments (218). Each fragment is searched for character patterns, which relate to the target content (220). The results of each fragment search are combined (226) to provide network-based search results to a user, agent, and/or system (228). The system and method search a network in a more efficient manner, and utilize less memory and processing resources, than prior art search engines and/or agents. This is especially applicable to target content that comprises streaming media, multimedia, and metadata related thereto, because of the large amounts of data that are processed.



WO 02/042863 A3



(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).

(88) Date of publication of the international search report:
21 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.

Published:

— *with international search report*

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/43303

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G06F 17/30
 US CL : 707/6

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. : 707/6

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)
 EAST

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,915,001 A (UPPALURU) 22 June 1999, COL 1-3	1-24
Y	US 5,956,484 A (ROSENBERG ET AL) 21 SEPTEMBER 1999, COL 1-4	1-24
Y	US 5,987,466 A (GREER ET AL) 16 NOVEMBER 1999, COL 1-2	1-24
Y	US 6,006,242 A (POOLE ET AL) 21 DECEMBER 1999, COL 1-3	1-24
Y	US 6,006,264 A (COLBY ET AL) 21 DECEMBER 1999, COL 1-4	1-24
Y	US 6,094,684 A (PALLMANN) 25 JULY 2000, COL 1-3	1-24
Y	US 6,098,064 A (PIROLI ET AL) 01 AUGUST 2000	1-24
Y	US 6,131,095 A (LOW ET AL) 10 OCTOBER 2000, COL 1-11	1-24
Y	US 6,134,548 A (GOTTSMAN ET AL) 17 OCTOBER 2000, COL 1-2	1-24

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

"E" earlier application or patent 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

24 April 2002 (24.04.2002)

Date of mailing of the international search report

15 MAY 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

Wayne Amsbury

James R. Matthews

Telephone No. 703-305-9700

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/43303

C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,138,162 A (PISTRIOTTO ET AL) 24 OCTOBER 2000, COL 1-5	1-24
Y, P	US 6,192,382 B1 (LAFER ET AL) 20 FEBRUARY 2001, COL 1-2	1-24
Y,P	US 6,256,623 B1 (JONES) 03 JULY 2001, COL 1-4	1-24
Y,P	US 6,310,601 B1 (MOORE ET AL) 30 OCTOBER 2001, COL 1-2	1-24
Y,P	US 6,314,456 B1 (VAN ANDEL ET AL) 06 NOVEMBER 2001, COL 1-5	1-24