

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
17 October 2002 (17.10.2002)

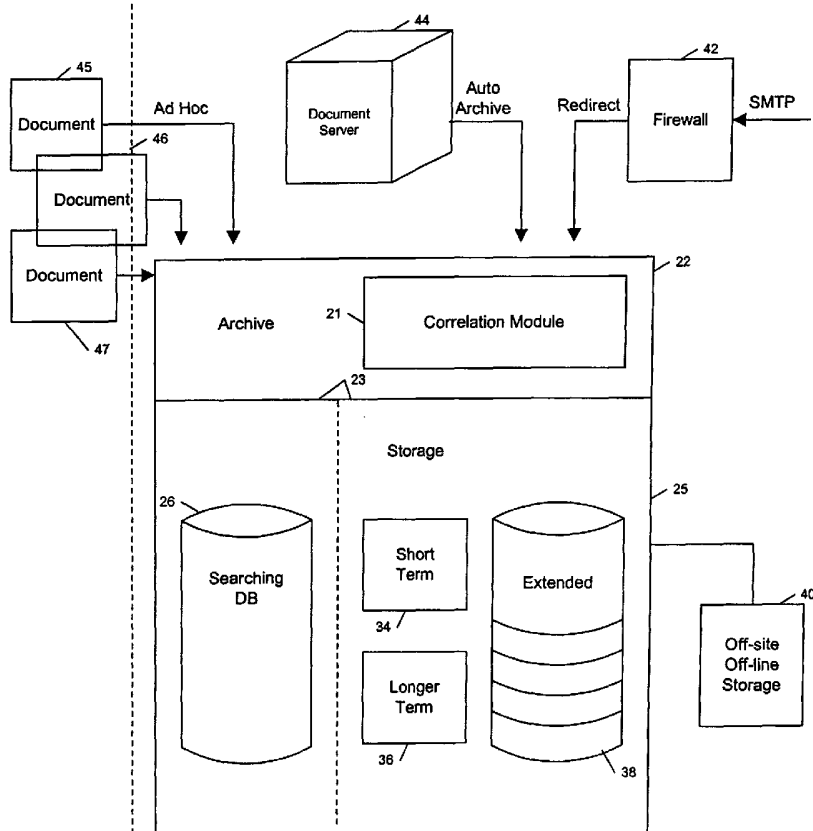
PCT

(10) International Publication Number  
WO 2002/082321 A3

- (51) International Patent Classification<sup>7</sup>: G06F 17/30
- (21) International Application Number: PCT/US2002/010410
- (22) International Filing Date: 2 April 2002 (02.04.2002)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 09/828,365 6 April 2001 (06.04.2001) US
- (71) Applicant: TUMBLEWEED COMMUNICATIONS CORP. [US/US]; 700 Saginaw Drive, Redwood City, CA 94063 (US).
- (72) Inventors: SHOUP, Randall, Scott; 533 Liberty Street, San Francisco, CA 94114 (US). BANDINI, Jean-Christophe, Denis; 3375 Britton Avenue, #11, San Carlos, CA 94070 (US).
- (74) Agent: PERRY, Guy; Skadden, Arps, Slate, Meagher & Flom LLP, Four Times Square, New York, NY 10036 (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, UZ, VN, YU, ZA, 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).

[Continued on next page]

(54) Title: METHOD AND SYSTEM FOR ARCHIVING DATA FILES



(57) Abstract: A policy based archiving system receives data files in various formats and with various attributes. The archiving system examines each data file's attributes to correlate each data file with at least one policy by employing policy predicates. A policy is a collection of actions and decisions relating to the various storage and processing modules of the archiving system. In one aspect, the archiving system scans the content of a received data file to correlate the data file to a policy in accordance with the semantic content of the data file.

WO 2002/082321 A3



**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*

*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.*

**(88) Date of publication of the international search report:**

11 March 2004

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 02/10410

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, IBM-TDB

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 613 108 A (MORIKAWA TAKASHI) 18 March 1997 (1997-03-18) column 2, line 25 - column 5, line 24 -----	1-14
X	US 6 199 102 B1 (COBB CHRISTOPHER ALAN) 6 March 2001 (2001-03-06) column 10, line 55 - column 11, line 37; figures 7,7A,7B ----- -/--	1-14

 Further documents are listed in the continuation of box C. 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.

"&amp;" document member of the same patent family

Date of the actual completion of the international search

7 October 2003

Date of mailing of the international search report

16.01.2004

Name and mailing address of the ISA

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

Authorized officer

Hauck, R

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 02/10410

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>PALME J ET AL: "Issues when designing filters in messaging systems"            COMPUTER COMMUNICATIONS, ELSEVIER SCIENCE PUBLISHERS BV, AMSTERDAM, NL,            vol. 19, no. 2,            1 February 1996 (1996-02-01), pages 95-101, XP004032392            ISSN: 0140-3664            page 95, column 2, line 8 - page 96, column 2, line 22</p> <p style="text-align: center;">-----</p>	1-14
X	<p>"PROMOTE ON ACCESS"            IBM TECHNICAL DISCLOSURE BULLETIN, IBM CORP. NEW YORK, US,            vol. 39, no. 4, 1 April 1996 (1996-04-01), pages 73-76, XP000587426.            ISSN: 0018-8689            the whole document</p> <p style="text-align: center;">-----</p>	1-14
A	<p>US 5 287 500 A (STOPPANI JR PETER)            15 February 1994 (1994-02-15)            abstract            column 6, line 47 - column 7, line 5</p> <p style="text-align: center;">-----</p>	1-14

INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US 02/10410

**Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)**

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

- 1.  Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
- 2.  Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
  
- 3.  Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

**Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)**

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

- 1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
  
- 2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
  
- 3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
  
- 4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-14

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-14

A data file archiving system correlating policy profiles to a data file and archiving the data file according to archive actions referred to in the policy profiles.

---

2. claims: 15-17

A method for providing redundancy in an archive system by storing a data file in more than one format.

---

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 02/10410

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 5613108	A	18-03-1997	JP	3168756 B2		21-05-2001
			JP	6250949 A		09-09-1994
			US	5765170 A		09-06-1998
-----						
US 6199102	B1	06-03-2001	WO	9910817 A1		04-03-1999
-----						
US 5287500	A	15-02-1994	DE	4218025 A1		10-12-1992
			FR	2677146 A1		04-12-1992
			GB	2258546 A ,B		10-02-1993
			JP	2724269 B2		09-03-1998
			JP	6044111 A		18-02-1994
-----						