

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
7 September 2001 (07.09.2001)

PCT

(10) International Publication Number
WO 01/65371 A3

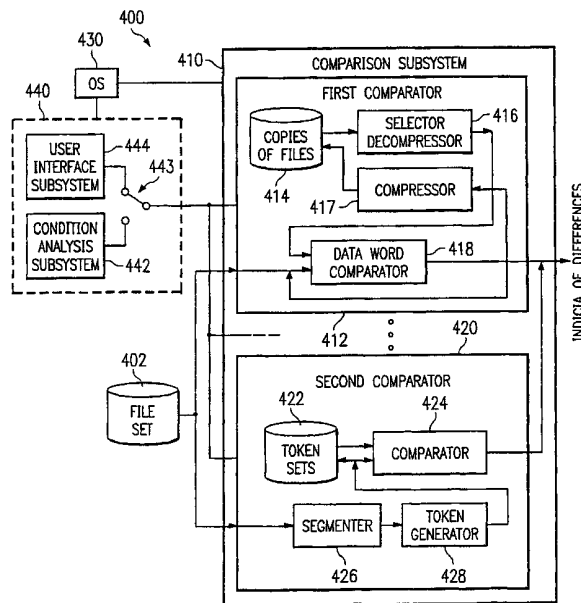
- (51) International Patent Classification⁷: G06F 11/14
- (21) International Application Number: PCT/US01/06820
- (22) International Filing Date: 1 March 2001 (01.03.2001)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/186,137 1 March 2000 (01.03.2000) US
- (71) Applicant: COMPUTER ASSOCIATES THINK, INC. [US/US]; One Computer Associates Plaza, Islandia, NY 11749 (US).
- (72) Inventors: FORSTER, Karl, J.; One Computer Associates Plaza, Islandia, NY 11749 (US). SEGARS, Alexander, D.; One Computer Associates Plaza, Islandia, NY 11749 (US).
- (74) Agent: STALFORD, Terry, J.; Baker Botts L.L.P., 2001 Ross Ave., Suite 600, Dallas, TX 75201-2980 (US).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AT (utility model), AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, CZ (utility model), DE, DE (utility model), DK, DK (utility model), DM, DZ, EE, EE (utility model), ES, FI, FI (utility model), 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, SK (utility model), 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, TR), 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:
18 April 2002

[Continued on next page]

(54) Title: METHOD AND SYSTEM FOR UPDATING AN ARCHIVE OF A COMPUTER FILE



(57) Abstract: A method and system for updating an archive of a computer file to reflect changes made to the file includes selecting one of a plurality of comparison methods as a preferred comparison method. The comparison methods include a first comparison method wherein the file is compared to an archive of the file and a second comparison method wherein a first set of tokens statistically representative of the file is computed and compared to a second set of tokens statistically representative of the archive of the file. The method further includes carrying out the preferred comparison method to generate indicia of differences between the file and the archive of the file for updating the archive of the file.

WO 01/65371 A3



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/US 01/06820

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G06F11/14

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, WPI Data, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 774 715 A (STAC ELECTRONICS) 21 May 1997 (1997-05-21) page 14, column 25, line 6 -column 26, line 6 ---	1-60
A	EP 0 899 662 A (HEWLETT-PACKARD COMPANY) 3 March 1999 (1999-03-03) column 7, line 5 -column 9, line 21 ---	1-60
A	WO 99 09480 A (TELEBACKUP SYSTEMS, INC.) 25 February 1999 (1999-02-25) page 7, line 14 -page 8, line 7 page 16, line 10 - line 18 ---	1-60
A	US 5 813 017 A (MORRIS) 22 September 1998 (1998-09-22) the whole document ---	1-60
	-/--	

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.
- *&* document member of the same patent family

Date of the actual completion of the international search

1 October 2001

Date of mailing of the international search report

09/10/2001

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

Absalom, R

INTERNATIONAL SEARCH REPORT

International Application No

US 01/06820

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 769 741 A (DIGITAL EQUIPMENT CORPORATION) 23 April 1997 (1997-04-23) the whole document ---	1-60
A	US 5 659 614 A (BAILEY, III) 19 August 1997 (1997-08-19) the whole document ---	1-60
A	WO 95 01599 A (LEGENT CORPORATION) 12 January 1995 (1995-01-12) the whole document ---	1-60
A	US 5 479 654 A (SQUIBB) 26 December 1995 (1995-12-26) the whole document ---	1-60
A	EP 0 981 090 A (CONNECTED PLACE LIMITED) 23 February 2000 (2000-02-23) the whole document -----	1-60

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 01/06820

Patent document cited in search report	A	Publication date	Patent family member(s)	Publication date
EP 774715	A	21-05-1997	US 5778395 A EP 0774715 A1 JP 10049416 A	07-07-1998 21-05-1997 20-02-1998
EP 899662	A	03-03-1999	EP 0899662 A1 EP 1008048 A1 WO 9912098 A1	03-03-1999 14-06-2000 11-03-1999
WO 9909480	A	25-02-1999	AU 8457698 A WO 9909480 A1	08-03-1999 25-02-1999
US 5813017	A	22-09-1998	US 5574906 A	12-11-1996
EP 769741	A	23-04-1997	US 5778165 A EP 0769741 A1	07-07-1998 23-04-1997
US 5659614	A	19-08-1997	NONE	
WO 9501599	A	12-01-1995	AT 172309 T AU 682523 B2 AU 7218994 A DE 69413977 D1 DE 69413977 T2 EP 0706686 A1 WO 9501599 A1 US 5649196 A	15-10-1998 09-10-1997 24-01-1995 19-11-1998 18-03-1999 17-04-1996 12-01-1995 15-07-1997
US 5479654	A	26-12-1995	CA 2094880 A1 AU 6552794 A EP 0692121 A1 WO 9423377 A1	27-10-1994 24-10-1994 17-01-1996 13-10-1994
EP 981090	A	23-02-2000	GB 2341249 A EP 0981090 A1	08-03-2000 23-02-2000