

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
11 December 2003 (11.12.2003)

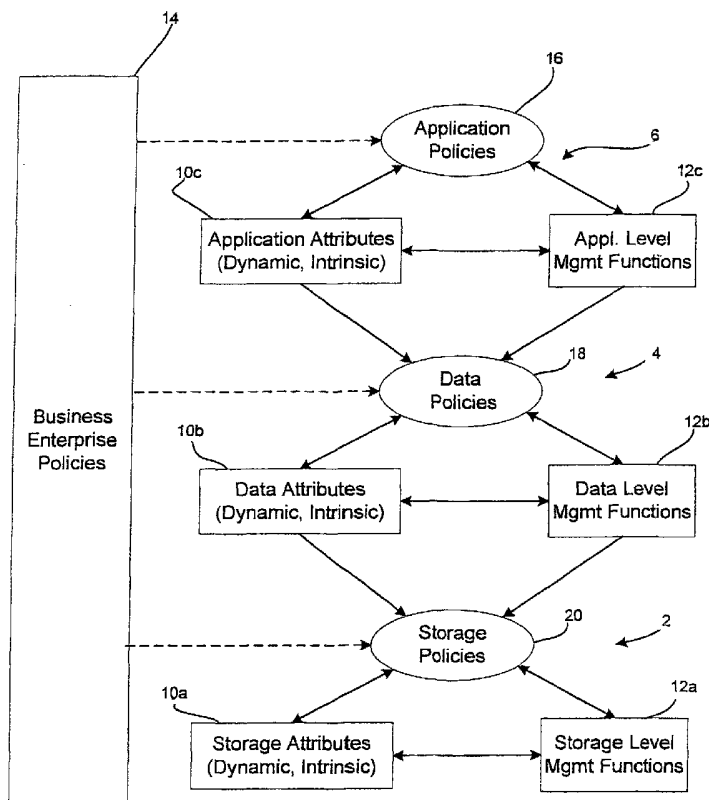
PCT

(10) International Publication Number
WO 2003/102762 A3

- (51) International Patent Classification⁷: G06F 9/46, 9/44, 17/30
- (72) Inventors: DEVARAKONDA, Murthy; 1411 Chatham Lane, Yorktown Heights, NY 10598 (US). GELB, Jack; 1381 Camino Robles Way, San Jose, CA 95120 (US). SAHA, Avijit; 65 Wilner Road, Somers, NY 10589 (US). STRICKLAND, Jimmy, Paul; 18929 Alcott Way, Saratoga, CA 95070 (US).
- (21) International Application Number: PCT/GB2003/002062
- (22) International Filing Date: 12 May 2003 (12.05.2003)
- (25) Filing Language: English
- (74) Agent: LITHERLAND, David, Peter; IBM United Kingdom Limited, Intellectual Property Law, Hursley Park, Winchester, Hampshire SO21 2JN (GB).
- (26) Publication Language: English
- (30) Priority Data: 10/159,494 31 May 2002 (31.05.2002) 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, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW.
- (71) Applicant: INTERNATIONAL BUSINESS MACHINES CORPORATION [US/US]; New Orchard Road, Armonk, NY 10504 (US).
- (71) Applicant (for MG only): IBM UNITED KINGDOM LIMITED [GB/GB]; PO Box 41, North Harbour, Portsmouth, Hampshire PO6 3AU (GB).

[Continued on next page]

(54) Title: METHOD, SYSTEM, AND PROGRAM FOR A POLICY BASED STORAGE MANAGER



(57) Abstract: Provided are data structures for use in storing data. A plurality of data structures are defined in a computer readable medium, wherein each data structure indicates a plurality of attributes and at least one function of a storage resource to store data. Policies are defined in the computer readable medium that associate data characteristics to data structures based on a correspondence of data characteristics and the attributes defined in the data structures, wherein each defined data structure is adapted to provide requirements to determine a storage resource to store associated data, and wherein the defined data structure is adapted to provide the storage resource with requirements for storing the data.

WO 2003/102762 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, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- *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:**
20 January 2005

Published:

- *with international search report*

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

National Application No GB 03/02062

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 G06F9/46 G06F9/44 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, INSPEC, IBM-TDB

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2001/034812 A1 (OSHINSKY DAVID ALAN ET AL) 25 October 2001 (2001-10-25) paragraph '0007! - paragraph '0012! -----	1-24
A	EP 0 950 965 A (XEROX CORP) 20 October 1999 (1999-10-20) paragraph '0001! - paragraph '0017! -----	1-24

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 30 November 2004	Date of mailing of the international search report 06/12/2004
--	---

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 Brandt, J
--	--

INTERNATIONAL SEARCH REPORT

International Application No

IB 03/02062

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2001034812 A1	25-10-2001	EP 1384135 A2 WO 0155856 A2 US 2001029512 A1	28-01-2004 02-08-2001 11-10-2001
EP 0950965 A	20-10-1999	US 2002052898 A1 EP 0950965 A2 JP 11328227 A	02-05-2002 20-10-1999 30-11-1999