${\bf (19)}\ World\ Intellectual\ Property\ Organization$

International Bureau





(43) International Publication Date 4 January 2007 (04.01.2007)

(10) International Publication Number WO 2007/001331 A3

(51) International Patent Classification: *G06F 17/30* (2006.01)

(21) International Application Number:

PCT/US2005/027202

(22) International Filing Date: 1 August 2005 (01.08.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

11/167,826 27 June 2005 (27.06.2005) US

(71) Applicant (for all designated States except US): MI-CROSOFT CORPORATION [US/US]; One Microsoft Way, Redmond, WA 98052-6399 (US).

(72) Inventors: SECHREST, Stuart; One Microsoft Way, Redmond, WA 98052-6399 (US). SAMSONOV, Yevgeniy, A.; One Microsoft Way, Redmond, WA 98052-6399 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

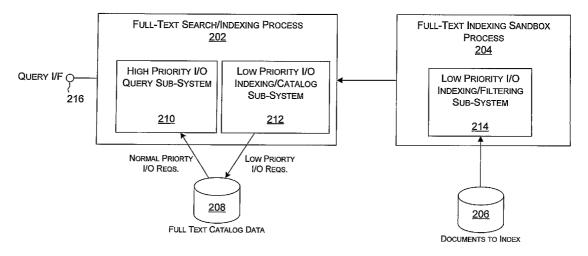
Published:

with international search report

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

16 April 2009

(54) Title: BACK-OFF MECHANISM FOR SEARCH



(57) Abstract: Indexing documents is performed using low priority I/0 requests (Figure 2, 212). This aspect can be implemented in systems having an operating system that supports at least two priority levels for I/0 requests to its filing system (Figure 2, 202). Low priority I/0 requests can be used for accessing documents to be indexed (Figure 2, 212). Low priority I/0 requests can also be used for writing information into the index (Figure 2, 212). Higher priority requests can be used for I/0 requests to access the index in response queries from a user (Figure 2, 210) I/0 request priority can be set on a per-thread basis as opposed to being set on a per-process basis (which may generate two or more threads for which it may be desirable to assign different priorities) (Figure 2).

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US05/27202

A. CLASSIFICATION OF SUBJECT MATTER IPC: G06F 17/30(2006.01)			
1 C. GOOF 17/30(2000.01)			
USPC: 707/1,10,100,104.1,201 According to International Patent Classification (IPC) or to both national classification and IPC			
D. COLD COLD COLD COLD COLD COLD COLD COLD			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols) U.S.: 707/1, 10, 100, 104.1, 201			
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 Database 1.03 (USPAT; EPO; JPO; DERWENT; IBM TDB			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.
Y	US 2002/0052913 (Yamada et al.) 2 May 2002 (02.0		1-20
Y	paragrpah [0151]. US 6,233,571 (Egger et al.) 15 May 2001 (15.05.2001) col. 3, line 66 and col. 24, lines 25- 1, 4, 5, 13, 16, 17		1, 4, 5, 13, 16, 17
	31. US 6,658,447 (COTA-ROBLES) 2 DECEMBER 2003 (02.12.2003) COL.2, 55-64, COL. 8,		
Y	US 6,658,447 (COTA-ROBLES) 2 DECEMBER 200 11-19.)3 (02.12.2003) COL.2, 55-64, COL. 8,	6, 7, 12, 14, 18, and 19
·			
			* * ***
Further documents are listed in the continuation of Box C.		See patent family 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	
"A" document defining the general state of the art which is not considered to be of particular relevance		principle or theory underlying the inven	tion
"E" earlier app	plication or patent published on or after the international filing date	"X" document of particular relevance; the cl considered novel or cannot be consider when the document is taken alone	
"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)		"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	
"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		"&" document member of the same patent family	
Date of the ac	ctual completion of the international search	Date of mailing of the international searc	h report
03 March 2008 (03.03.2008)		17	MAR 2008
Name and mailing address of the ISA/US		Authorized officer This is	
Mail Stop PCT, Attn: ISA/US Commissioner of Patents		Hosain Alam	
P.O. Box 1450		Telephone No. 571-272-2100	
Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201		100phone 140. 371-272-2100	

Form PCT/ISA/210 (second sheet) (July 1998)