(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 24 November 2005 (24.11.2005)

(10) International Publication Number WO 2005/111828 A3

- (51) International Patent Classification: G06F 15/00 (2006.01)
- (21) International Application Number:

PCT/US2004/023373

- (22) International Filing Date: 22 July 2004 (22.07.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:

10/837,042

30 April 2004 (30.04.2004)

- (71) Applicant (for all designated States except US): MI-CROSOFT CORPORATION [US/US]; One Microsoft Way, Redmond, WA 98052 (US).
- (72) Inventors: ORNSTEIN, David; 8106 21st Ave NE, Seattle, WA 98115 (US). PAOLI, Jean, D.; 10129 NE 60th #3, Kirkland, WA 98033 (US). HILLBERG, Michael, J.; 2804 107th Avenue SE, Beaux Arts, WA 98004 (US). FOEHR, Oliver, H.; 5413 W. Mercer Way, Mercer Island, WA 98040 (US). POLLOCK, Josh; 720 Kirkland Cr., Apartment B203, Kirkland, WA 98033 (US). DUNIETZ, Jerry; 439 McGilvra Blvd E., Seattle, WA 98112 (US).

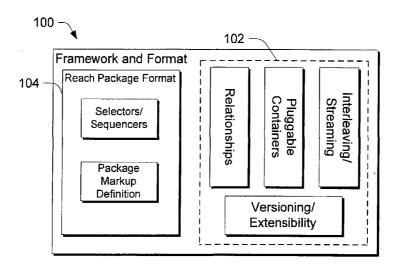
- (74) Agents: LEE, Lewis, C. et al.; Lee & Hayes, PLLC, Suite 500, 421 W. Riverside Avenue, Spokane, WA 99201 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, 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, IT, LU, 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).

Published:

with international search report

[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR INTERLEAVING PARTS OF A DOCUMENT



(57) Abstract: Modular content framework and document format methods and systems are described. The described framework and format (100) define a set of building blocks for composing, packaging, distributing, and rendering document-centered content. These building blocks define a platform-independent framework for document formats that enable software and hardware systems to generate, exchange, and display documents reliably and consistently. The framework and format have been designed in a flexible and extensible fashion. In addition to this general framework and format, a particular format, known as the reach package format (104), is defined using the general framework. The reach package format (104) is a format for storing paginated documents. The contents of a reach package can be displayed or printed with full fidelity among devices and applications in a wide range of environments and across a wide range of scenarios.



WO 2005/111828 A3



 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:

31 August 2006

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/23373

A. CLASSIFICATION OF SUBJECT MATTER IPC: G06F 15/00(2006.01)			
USPC: 715/514,513,500 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.: 715/514, 513, 500, 515, 516; 709/236, 246			
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 a	ppropriate, of the relevant passages	Relevant to claim No.
X	US 6,247,018 B1 (RHEAUME) 12 June 2001 (12.06	5.2001), all.	1-3, 5-28, 30-38
Y			4, 29
Y	US 2004/0049737 A1 (SIMON HUNT et al.) 11 March 2004 (11.03.2004), paragraph 640.		29
Y	US 2003/0028560 A1 (KUDROLLI et al.) 06 Februa	ary 2003 (06.02.2003), paragraph 264	4
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		"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	
"E" earlier application or patent published on or after the international filing date		considered novel or cannot be considered 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	
"O" document	referring to an oral disclosure, use, exhibition or other means	obvious to a person skilled in the art	
"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 actual completion of the international search		Date of mailing of the international search report	
08 June 2006 (08.06.2006)		Authorized officer	
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US		Authorized officer	
Commissioner for Patents		Thu V. Huynh	
P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201		Telephone No. 703-305-9000	

Form PCT/ISA/210 (second sheet) (April 2005)