



(51) International Patent Classification:

G06F 15/16 (2006.01) G06F 9/44 (2006.01)
G06F 13/14 (2006.01)

(21) International Application Number:

PCT/US2010/036968

(22) International Filing Date:

1 June 2010 (01.06.2010)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

12/479,189 5 June 2009 (05.06.2009) US

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

(72) Inventors: **CLARKE, Simon, Peter**; c/o Microsoft Corporation, LCA - International Patents, One Microsoft Way, Redmond, Washington 98052-6399 (US). **BOSE, Miko, Arnab, S.**; c/o Microsoft Corporation, LCA - International Patents, One Microsoft Way, Redmond, Washington 98052-6399 (US). **SUN, Xuele**; c/o Microsoft Corporation, LCA - International Patents, One Microsoft Way, Redmond, Washington 98052-6399 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, 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))

[Continued on next page]

(54) Title: SYNCHRONIZING FILE PARTITIONS UTILIZING A SERVER STORAGE MODEL

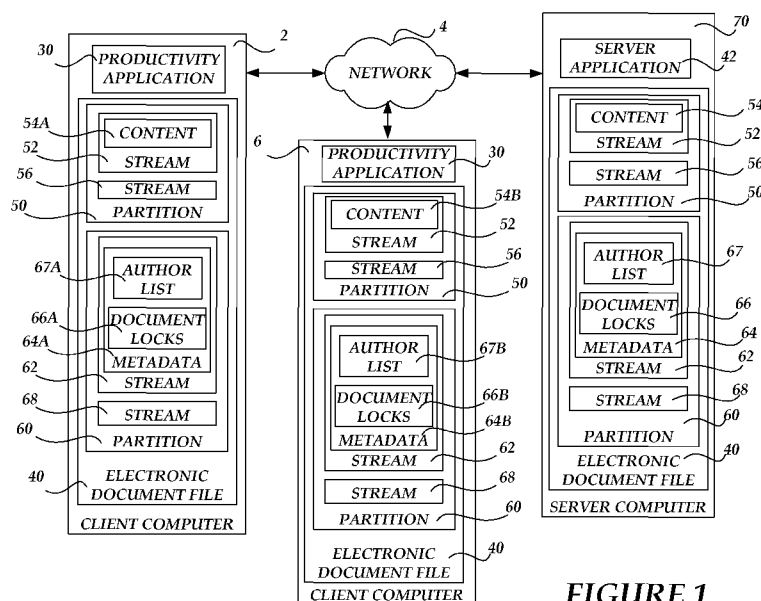


FIGURE 1

(57) Abstract: Embodiments are provided for synchronizing file partitions utilizing a server storage model in a client-server computer network. Edits to content of an electronic document may be received at a client computer. The content may be included in a first partition of a file stored on a server computer. The first partition may include a first stream which includes the electronic document content. The file may include multiple partitions with each partition including one or more streams. The client computer may generate metadata in a second partition of the file. The metadata may be associated with the edits to the electronic document content in the first partition. The second partition may then be individually synchronized with the server computer to store the metadata. The first partition may then be individually synchronized with the server computer to store the edits made to the electronic document content.

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

17 February 2011

- *with international search report (Art. 21(3))*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2010/036968**A. CLASSIFICATION OF SUBJECT MATTER****G06F 15/16(2006.01)i, G06F 13/14(2006.01)i, G06F 9/44(2006.01)i**

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)

G06F 15/16; G06F 15/00; G06F 17/00; G06F 17/30; G06F 7/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: "document", "edit", "metadata". "synchronize"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2009-0125518 A1 (BAILOR JONATHAN BECKETT et al.) 14 May 2009 See abstract; figures 1-3; paragraphs [0026], [0029], [0030]; claim 1.	1-15
A	US 2006-0136472 A1 (VENKATESWARARAO JUJJURI et al.) 22 June 2006 See abstract; figure 4; paragraph [0020].	1-15
A	US 2006-0136387 A1 (MARK YALOVSKY et al.) 22 June 2006 See abstract; figure 2; paragraphs [0012], [0016], [0019].	1-15
A	US 7299404 B2 (RAMESH C. AGARWAL et al.) 20 November 2007 See abstract; figure 5; column 8 lines 63-67, column 9 lines 1-20.	1-15

☐ 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

"E" earlier application or patent 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 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

27 DECEMBER 2010 (27.12.2010)

Date of mailing of the international search report

27 DECEMBER 2010 (27.12.2010)

Name and mailing address of the ISA/KR

Korean Intellectual Property Office
Government Complex-Daejeon, 139 Seonsa-ro, Seo-
gu, Daejeon 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

HAN, Seon Kyoung

Telephone No. 82-42-481-8523



INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2010/036968

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2009-0125518 A1	14.05.2009	AU 2008-324973 A1 EP 2212807 A1 KR 10-2010-0084644 A TW 200921421 A WO 2009-061638 A1	14.05.2009 04.08.2010 27.07.2010 16.05.2009 14.05.2009
US 2006-0136472 A1	22.06.2006	CN 1794207 C0 US 7480654 B2	28.06.2006 20.01.2009
US 2006-0136387 A1	22.06.2006	US 7519579 B2	14.04.2009
US 7299404 B2	20.11.2007	US 2004-225963 A1	11.11.2004