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- (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, BN, 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, 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, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, 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.
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[Continued on nextpage]

(54) **Title:** ONLINE COLLABORATIVE SUITE

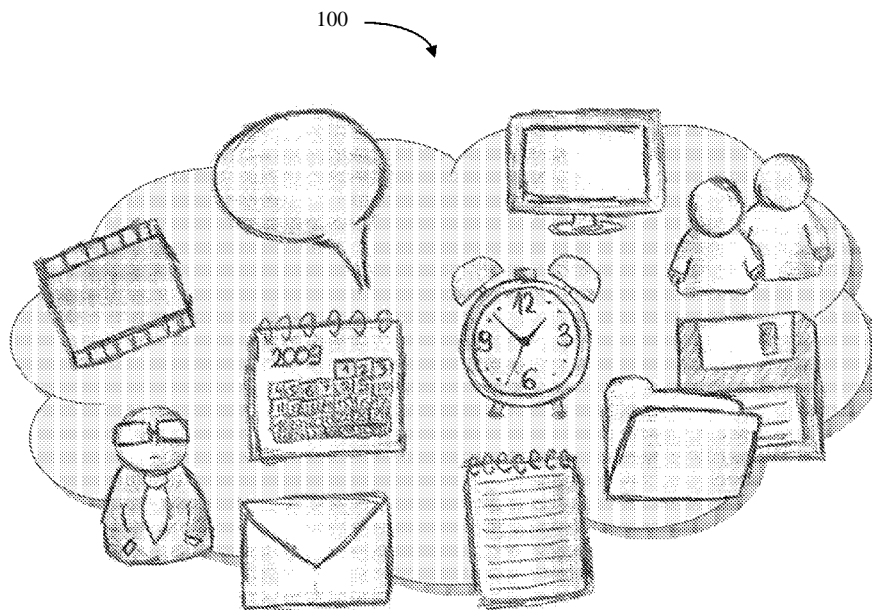


Figure 1

(57) **Abstract:** A system and method for a system for server-side database-driven services that can be accessed by a variety of client side applications, as disclosed in this disclosure. There are many applications for desktop computers and mobile devices for accessing a variety of content, such as, for example, e-mail, documents and contacts. However, these applications all work individually and not collaboratively.

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- *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))*

19 June 2014

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2013/055139

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - H04N 21/258 (2014.01)
USPC - 726/ 8

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(8) - G06F3/01, 9/46, 9/54, 13/00, 17/30, 19/28, 21/00; H04N21/20, 21/25, 21/258 (2014.01)
 USPC - 715/ 700, 734, 737, 738, 739, 744, 745, 748, 751, 760, 763; 726/8, 12

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
 CPC - H04L 67/1091, 67/1097; H04N 21/252, 21/258, 21/25808, 21/25866, 21/25875, 21/25891 (2014.02)

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

PatBase, Google Patents, Google Scholar

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 201 1/0277027 A1 (HAYTON et al) 10 November 201 1 (10.1 1.201 1) entire document	1-16
A	US 2012/0185874 A1 (COOKSON) 19 July 2012 (19.07.2012) entire document	1-16
A	US 2002/0138582 A1 (CHANDRA et al) 26 September 2002 (26.09.2002) entire document	1-16
A	US 2007/0250841 A1 (SCAHILL et al) 25 October 2007 (25.10.2007) entire document	1-16
A	US 201 1/0277026 A1 (AGARWAL et al) 10 November 201 1 (10.1 1.201 1) entire document	1-16

Further documents are listed in the continuation of Box C.

* Special categories of cited documents:	"V" 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
"A" document defining the general state of the art which is not considered to be of particular relevance	"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
"E" earlier application or patent but published on or after the international filing date	"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
"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)	"&" document member of the same patent family
"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	

Date of the actual completion of the international search 04 April 2014	Date of mailing of the international search report 23 APR 2014
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Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Authorized officer: Blaine R. Copenheaver PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774
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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2013/055139

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

- 1. Claims Nos.
because they relate to subject matter not required to be searched by this Authority, namely:

- 2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

- 3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:
see extra sheet

- 1. **IEI** As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
- 2. As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.
- 3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

- 4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

- Remark on Protest**
- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
 - The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
 - No protest accompanied the payment of additional search fees.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1 . In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I, claims 1-15, drawn to a system where the user can switch between the one or more than one client side applications without having to stop and start other client side applications.

Group II, claims 16, drawn to a method of balancing user traffic load.

The inventions listed as Groups I-II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the special technical feature of the Group I invention: proxy server, load balancer, web server, application server, database server, network aware file system, where the proxy server, web server, application server, database server and network aware file system comprise a private cloud computing space for a user; a user interface, where the user can switch between the one or more than one client side applications without having to stop and start other client side applications as claimed therein is not present in the invention of Group II. The special technical feature of the Group II invention: accessing a user profile, receiving requests from applications, determining a user traffic load over one or more than one database server, balancing the user traffic load, determining if additional application and database servers need to be dynamically, added if the load of all the servers increases to a point that would impede the use of the system and storing relations between the transmitted data and the user profile as claimed therein is not present in the invention of Groups I.

Groups I and II lack unity of invention because even though the inventions of these groups require the technical feature of a system for server-side database-driven services that can be accessed by a variety of client side applications, this technical feature is not a special technical feature as it does not make a contribution over the prior art in view of US 2012/0185874 A1 (COOKSON) 19 July 2012 (19.07.2012), abstract, Fig. 2, para 34-38.

Since none of the special technical features of the Group I or II inventions are found in more than one of the inventions, unity of invention is lacking.