



- (51) **International Patent Classification:**  
*G06F 3/00* (2006.01)
- (21) **International Application Number:**  
PCT/US2013/039775
- (22) **International Filing Date:**  
6 May 2013 (06.05.2013)
- (25) **Filing Language:**  
English
- (26) **Publication Language:**  
English
- (30) **Priority Data:**  
13/473,575 16 May 2012 (16.05.2012) US
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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, 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, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, 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, RW, SD, SL, SZ, TZ,

[Continued on next page]

(54) **Title:** CLOUD-BASED DATA ITEM SHARING AND COLLABORATION AMONG GROUPS OF USERS

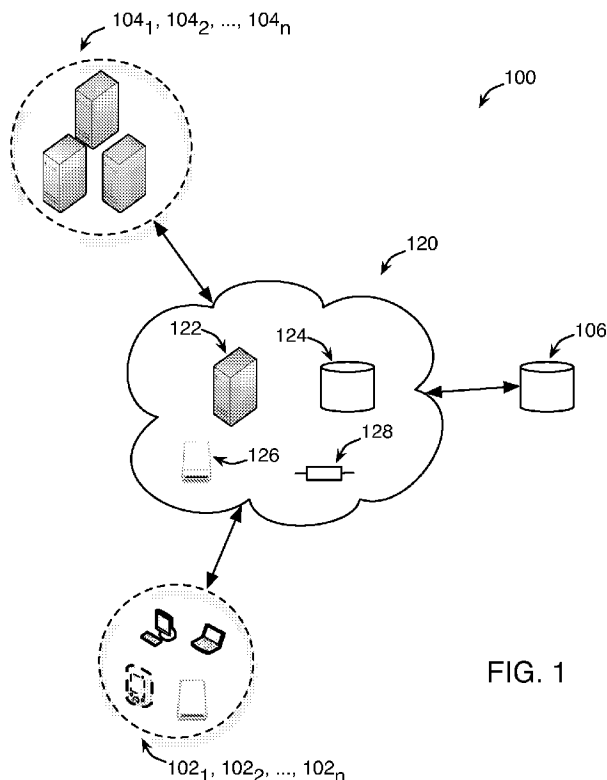


FIG. 1

(57) **Abstract:** A cloud computing system can be used to facilitate data item sharing and collaboration among groups of users through the creation and management of collections. A group of users, each of which is associated with at least one client device, can subscribe to a collection. A subscribed user can create a data item locally on a client device and assign the data item to a collection. In response to the assignment, each user subscribed to the collection can receive and store a copy of the data item locally on a client device. Any modifications made to a local copy of the data item can automatically be distributed to each subscribed user's client device. The modifications, including conflicting modifications, can be merged into the local copy.



UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, 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, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— *with international search report (Art. 21(3))*

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

13 March 2014

**Declarations under Rule 4.17:**

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2013/039775

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - G06F 3/00 (2013.01)

USPC - 715/751

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) - G06F 3/00, 17/00, 3/048 (2013.01)

USPC - 707/617; 715/200, 255, 751, 759

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
CPC - G06F 17/30011; G06Q 10/10 (2013.01)

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

Orbit, Google Patents, Google Scholar, Google.com

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|------------------------------------------------------------------------------------|-----------------------|
| Y         | US 2012/0110443 A1 (LEMONIK et al) 03 May 2012 (03.05.2012) entire document        | 1-20                  |
| Y         | US 2010/0094912 A1 (CURTIS) 15 April 2010 (15.04.2010) entire document             | 1-20                  |
| Y         | US 2010/0211543 A1 (KNIGHT et al) 19 August 2010 (19.08.2010) entire document      | 6                     |
| A         | US 2009/0249224 A1 (DAVIS et al) 01 October 2009 (01.10.2009) entire document      | 1-20                  |
| A         | US 2009/0157811 A1 (BAILOR et al) 18 June 2009 (18.06.2009) entire document        | 1-20                  |

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"&amp;" document member of the same patent family

Date of the actual completion of the international search

06 November 2013

Date of mailing of the international search report

09 DEC 2013

Name and mailing address of the ISA/US

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Facsimile No. 571-273-3201

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PCT OSP: 571-272-7774