(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
23 July 2009 (23.07.2009)

PCT

(10) International Publication Number
WO 2009/091699 A4

(51) **International Patent Classification**:
G06F 13/00 (2006.01)

(21) **International Application Number**:
PCT/US2009/030770

(22) **International Filing Date**:
12 January 2009 (12.01.2009)

(25) **Filing Language**: English

(26) **Publication Language**: English

(30) **Priority Data**:
12/016,773 18 January 2008 (18.01.2008) US

(71) **Applicant** *(for all designated States except US)*: **TIVO INC.** [US/US]; 2160 Gold Street, Alviso, California 95002 (US).

(72) **Inventors; and**
(75) **Inventors/Applicants** *(for US only)*: **BARTON, James** [US/US]; 2160 Gold Street, Alviso, California 95002 (US). **BEACH, Brian** [US/US]; 4690 Stonebridge Court, Columbus, Indiana 47201 (US). **FEDER, Adam** [US/US]; 898 Windmill Park Lane, Mountain View, California 94943 (US).

(74) **Agents**: **CHEE, Robert, S.** et al.; Hickman Palermo Truong & Becker LLP, 2055 Gateway Place, Ste. 550, San Jose, CA 95110 (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, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, 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, 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, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, 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 (Art. 21(3))*

(54) **Title**: DISTRIBUTED BACKUP AND RETRIEVAL SYSTEM

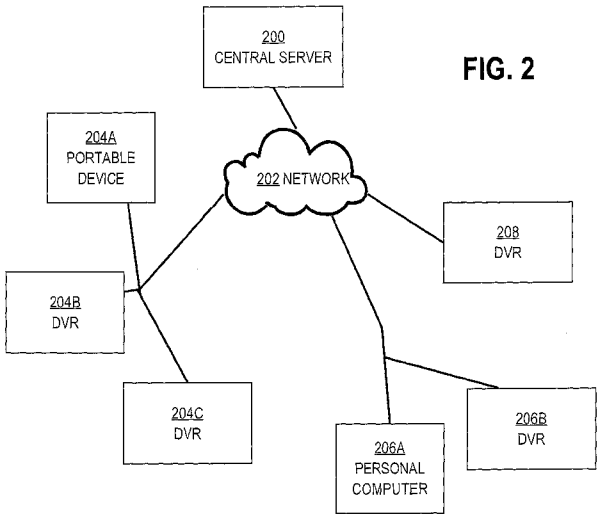


FIG. 2

(57) **Abstract**: A method is provided for performing distributed backup and retrieval of data. Data is sent by a plurality of client devices to be processed by a server and then stored in a database. A subset of the processed data stored in the database is backed up to each of the plurality of client devices. For the one or more particular client devices owned by a user, the subset of processed data stored on the one or more particular client devices is the subset of processed data that is associated with the user. The server and client device is updated to maintain the same state of processed data in the database and the backup. In the event of failure of either the database or a client device, processed data may be restored using the processed data stored on the database or the backup stored on the plurality of client devices.

WO 2009/091699 A4