



- (51) **International Patent Classification:**
G06F 15/16 (2006.01)
- (21) **International Application Number:**
PCT/CN2013/081791
- (22) **International Filing Date:**
19 August 2013 (19.08.2013)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
201210297918.8 21 August 2012 (21.08.2012) CN
- (71) **Applicant: TENCENT TECHNOLOGY (SHENZHEN) COMPANY LIMITED** [CN/CN]; Room 403, East Block 2, SEG Park, Zhenxing Road, Futian District, Shenzhen, Guangdong 518000 (CN).
- (72) **Inventors: WANG, Xuxin**; Room 403, East Block 2, SEG Park, Zhenxing Road, Futian District, Shenzhen, Guangdong 518000 (CN). **YAO, Jianhui**; Room 403, East Block 2, SEG Park, Zhenxing Road, Futian District, Shenzhen, Guangdong 518000 (CN). **CHEN, Xianwen**; Room 403, East Block 2, SEG Park, Zhenxing Road, Futian District,

Shenzhen, Guangdong 518000 (CN). **TANG, Wen**; Room 403, East Block 2, SEG Park, Zhenxing Road, Futian District, Shenzhen, Guangdong 518000 (CN).

(74) **Agent: BEIJING SAN GAO YONG XIN INTELLECTUAL PROPERTY AGENCY CO., LTD.**; A-1-102, He Jing Yuan, Ji Men Li, Xueyuan Road, Haidian District, Beijing, 100088 (CN).

(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.

(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: SYSTEMS AND METHODS FOR DATA SYNCHRONIZATION IN A NETWORK APPLICATION**

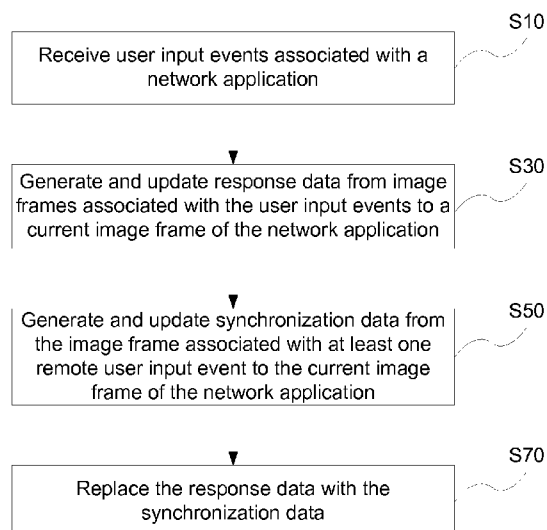


Figure 1

(57) **Abstract:** A computer receives user input events associated with a network application. Each user input event corresponds to a respective image frame of the network application and the user input events include at least one remote user input event from a remote source. The computer generates and updates response data from the respective image frames associated with the user input events to a current image frame of the network application. In some embodiments, the user input events are all from a local user of the computer. The computer also generates and updates synchronization data from the respective image frame associated with the at least one remote user input event to the current image frame of the network application. Finally, the computer replaces the response data with the synchronization data.



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, KM, ML, MR, NE, SN, TD, TG).

Published:

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