

(51) International Patent Classification:
G06F 3/03 (2006.01)(21) International Application Number:
PCT/US2012/022080(22) International Filing Date:
20 January 2012 (20.01.2012)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

61/435,194	21 January 2011 (21.01.2011)	US
61/447,592	28 February 2011 (28.02.2011)	US
61/448,312	2 March 2011 (02.03.2011)	US
61/450,101	7 March 2011 (07.03.2011)	US
61/467,535	25 March 2011 (25.03.2011)	US
61/467,543	25 March 2011 (25.03.2011)	US
61/514,863	3 August 2011 (03.08.2011)	US
61/544,440	7 October 2011 (07.10.2011)	US
13/344,424	5 January 2012 (05.01.2012)	US

(71) Applicant (for all designated States except US): **QUALCOMM INCORPORATED** [US/US]; Attn: International IP Administration, 5775 Morehouse Drive, San Diego, California 92121 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **RAVEENDRAN, Vijayalakshmi R.** [US/US]; 5775 Morehouse Drive, San Diego, California 92121 (US). **HUANG, Xiaolong**[CN/US]; 5775 Morehouse Drive, San Diego, California 92121 (US). **WANG, Xiaodong** [CN/US]; 5775 Morehouse Drive, San Diego, California 92121 (US). **SHAUKAT, Fawad** [US/US]; 5775 Morehouse Drive, San Diego, California 92121 (US).(74) Agent: **KORDICH, Donald C.**; Attn: International IP Administration, 5775 Morehouse Drive, San Diego, California 92121 (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, 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, 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, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: USER INPUT BACK CHANNEL FOR WIRELESS DISPLAYS

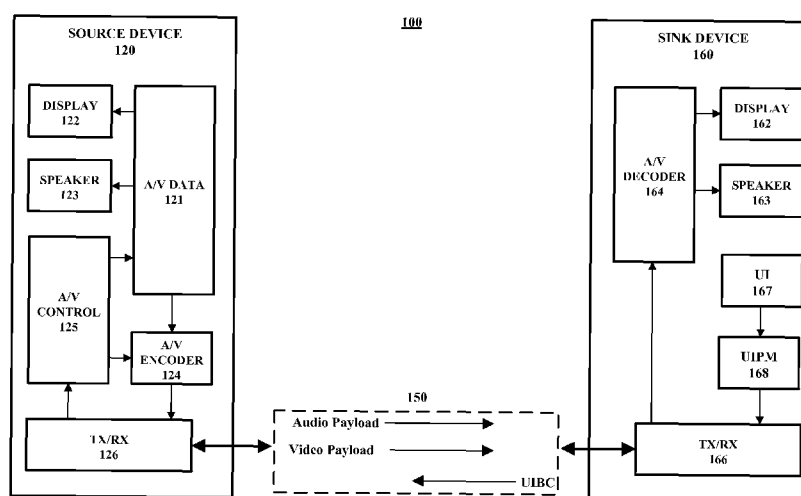


FIG. 1A

(57) Abstract: As part of a communication session, a wireless source device can transmit audio and video data to a wireless sink device, and the wireless sink device can transmit user input data received at the wireless sink device back to the wireless source device. In this manner, a user of the wireless sink device can control the wireless source device and control the content that is being transmitted from the wireless source device to the wireless sink device. The input data received at the wireless sink device can have associated coordinate information that is scaled or normalized by either the wireless sink device or the wireless source device.

**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))*

Published:

- *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))*