



- (51) **International Patent Classification:**
G10L 15/22 (2006.01) *G06F 3/048* (2013.01)
- (21) **International Application Number:**
PCT/US2014/021650
- (22) **International Filing Date:**
7 March 2014 (07.03.2014)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
13/829,925 14 March 2013 (14.03.2013) US
- (71) **Applicant:** TOYTALK, INC. [US/US]; 74 Tehama St., San Francisco, California 94105 (US).
- (72) **Inventors:** JACOB, Oren M.; 74 Tehama St., San Francisco, California 94105 (US). REDDY, Martin; 74 Tehama St., San Francisco, California 94105 (US). IVES, Lucas R. A.; 74 Tehama St., San Francisco, California 94105 (US). PODESTA, Robert G.; 74 Tehama St., San Francisco, California 94105 (US).
- (74) **Agents:** COLEMAN, Brian R. et al.; Perkins Coie LLP - PAO, P. O. Box 1208, Seattle, Washington 98111-1208 (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, 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, IR, 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, 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))
- 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))

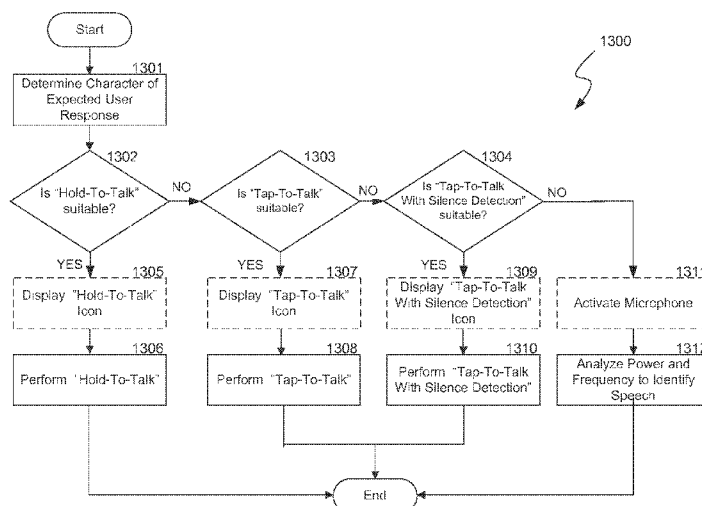
(54) **Title:** SYSTEMS AND METHODS FOR INTERACTIVE SYNTHETIC CHARACTER DIALOGUE

FIG. 13

(57) **Abstract:** Various of the disclosed embodiments concern systems and methods for conversation-based human-computer interactions. In some embodiments, the system includes a plurality of interactive scenes. A user may access each scene and engage in conversation with a synthetic character regarding an activity associated with that active scene. In certain embodiments, a central server may house a plurality of waveforms associated with the synthetic character's speech, and may dynamically deliver the waveforms to a user device in conjunction with the operation of an artificial intelligence. In other embodiments, the character's speech is generated using a text-to-speech system.