



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

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | (43) International Publication Date: 12 November 1998 (12.11.98)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <p>(21) International Application Number: PCT/US98/09437</p> <p>(22) International Filing Date: 6 May 1998 (06.05.98)</p> <p>(30) Priority Data:<br/>60/045,741 6 May 1997 (06.05.97) US</p> <p>(71)(72) Applicants and Inventors: MARX, Matthew, T. [US/US]; 44 Pierce Avenue #1, Everett, MA 02149 (US). CARTER, Jerry, K. [US/US]; 38 Day Street #42, Somerville, MA 02144 (US). PHILLIPS, Michael, S. [US/US]; 653 Concord Avenue, Belmont, MA 02178 (US). HOLTHOUSE, Mark, A. [US/US]; 163 Upland Road, Newtonville, MA 02160 (US). SEABURY, Stephen, D. [US/US]; 52 Bay State Road, Boston, MA 02215 (US). ELIZONDO-CECENAS, Jose, L. [US/US]; One Emerson Place, 6-B, Boston, MA 02114 (US). PHANEUF, Brett, D. [US/US]; 380 Pine Street, Marsfield, MA 02050 (US).</p> <p>(74) Agents: SUGIMURA, Audrey, M. et al.; McDermott, Will &amp; Emery, 600 13th Street, N.W., Washington, DC 20005-3096 (US).</p> |           | <p>(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).</p> <p><b>Published</b><br/>With international search report.<br/>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</p> |

(54) Title: SYSTEM AND METHOD FOR DEVELOPING INTERACTIVE SPEECH APPLICATIONS

## (57) Abstract

The disclosed system and method for developing the invention store a plurality of dialogue modules in a speech processing system, wherein each dialogue module includes computer readable instructions for accomplishing a predefined interactive dialogue task in an interactive speech application. In response to user input (Figure 7, 51), a subset of the plurality of dialogue modules (Figure 7, 710, 720, 730) are selected to accomplish their respective interactive dialogue tasks and are interconnected in an order defining the call flow of the application (Figure 1, 110-180). A graphical user interface is disclosed, representing the stored plurality of dialogue modules as icons in a graphical display (Figure 7) in which icons are selected in the graphical display in response to user input, the icons for the subset of dialogue modules are graphically interconnected and the interactive speech application is generated based upon the graphical representation.

