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(54) **Title:** COMMUNICATING CONTEXT ACROSS DIFFERENT COMPONENTS OF MULTI-MODAL DIALOG APPLICATIONS

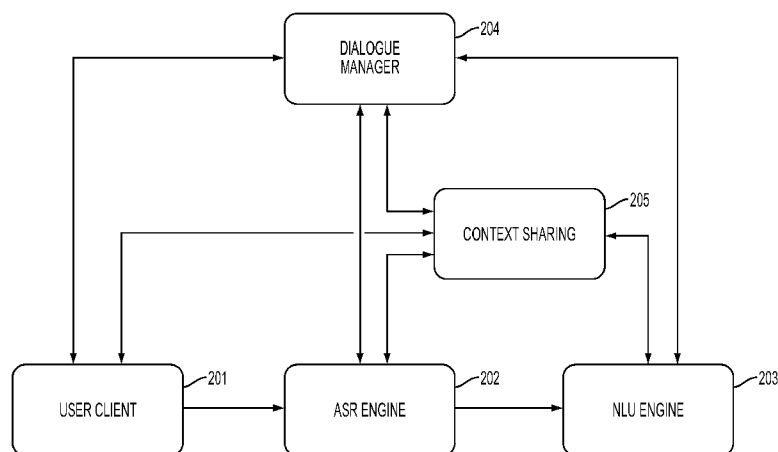


FIG. 2

(57) **Abstract:** A human-machine dialogue system is described which has multiple computer-implemented dialogue components. A user client delivers output prompts to a human user and receives dialogue inputs including speech inputs from the human user. An automatic speech recognition (ASR) engine processes the speech inputs to determine corresponding sequences of representative text words. A natural language understanding (NLU) engine processes the text words to determine corresponding semantic interpretations. A dialogue manager (DM) generates the output prompts and responds to the semantic interpretations so as to manage a dialogue process with the human user. The dialogue components share context information with each other using a common context sharing mechanism such that the operation of each dialogue component reflects available context information.



INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
G06N G06F G10L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 7 092 928 B1 (ELAD JOSEPH B [US] ET AL) 15 August 2006 (2006-08-15)	1,3-7, 9-13, 15-18
Y	abstract the whole document	2,8,14
X	WO 00/21074 A1 (LERNOUT & HAUSPIE SPEECHPROD [BE]) 13 April 2000 (2000-04-13)	1,3-7, 9-13, 15-18
A	abstract page 8, line 24 - page 9, line 6 page 14, line 3 - line 27 page 16, line 13 - line 28 page 17, line 5 - page 18, line 16 ----- -/--	2,8,14

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See patent family annex.

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Date of the actual completion of the international search 10 November 2014	Date of mailing of the international search report 17/11/2014
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Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer Valencia, Erika
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International application No

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	William Loyola: "Comparison of Approaches toward Formalising Context: Implementation Characteristics and Capacities", The Electronics Journal of Knowledge Management, vol. 5, no. 2 31 January 2007 (2007-01-31), pages 203-214, XP055151677, Retrieved from the Internet: URL:www.ejkm.com [retrieved on 2014-11-07]	2,8,14
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INTERNATIONAL SEARCH REPORT

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International application No

PCT/US2014/022558

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