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(54) Title: METHODS AND APPARATUS FOR IMPLEMENTING DISTRIBUTED MULTI-MODAL APPLICATIONS

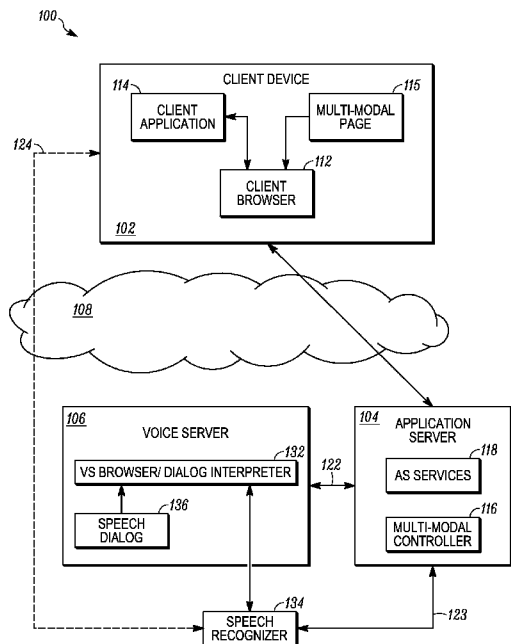


FIG. 1

(57) Abstract: Embodiments include methods and apparatus for synchronizing data and focus between visual and voice views associated with distributed multi-modal applications. An embodiment includes a client device adapted to render a visual display that includes at least one multi-modal display element for which input data is receivable through a visual modality and a voice modality. When the client detects a user utterance via the voice modality, the client sends uplink audio data representing the utterance to a speech recognizer. An application server receives a speech recognition result generated by the speech recognizer, and sends a voice event response to the client. The voice event response is sent as a response to an asynchronous HTTP voice event request previously sent to the application server by the client. The client may then send another voice event request to the application server in response to receiving the voice event response.

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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)

G06F G10L H04M H04L

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 practical, search terms used)

EPO-Internal, COMPENDEX, INSPEC, PAJ, IBM-TDB, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2006/235694 A1 (CROSS CHARLES W [US] ET AL) 19 October 2006 (2006-10-19) abstract paragraph [0024] paragraph [0033] - paragraph [0055] paragraph [0058] figures 1-4	1-21
X	US 2004/138890 A1 (FERRANS JAMES [US] ET AL) 15 July 2004 (2004-07-15) paragraph [0021] - paragraph [0033] figures 4, 5 abstract	1-21
X	US 2006/146728 A1 (ENGELSMA JONATHAN R [US] ET AL) 6 July 2006 (2006-07-06) the whole document	1-21

 Further documents are listed in the continuation of Box C. See patent family annex.

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date																		
US 2006235694	A1	19-10-2006	NONE																		
US 2004138890	A1	15-07-2004	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">CN</td> <td style="width: 40%;">1735929 A</td> <td style="width: 45%;">15-02-2006</td> </tr> <tr> <td>EP</td> <td>1588353 A2</td> <td>26-10-2005</td> </tr> <tr> <td>KR</td> <td>20050100608 A</td> <td>19-10-2005</td> </tr> <tr> <td>RU</td> <td>2349970 C2</td> <td>20-03-2009</td> </tr> <tr> <td>TW</td> <td>249729 B</td> <td>21-02-2006</td> </tr> <tr> <td>WO</td> <td>2004064299 A2</td> <td>29-07-2004</td> </tr> </table>	CN	1735929 A	15-02-2006	EP	1588353 A2	26-10-2005	KR	20050100608 A	19-10-2005	RU	2349970 C2	20-03-2009	TW	249729 B	21-02-2006	WO	2004064299 A2	29-07-2004
CN	1735929 A	15-02-2006																			
EP	1588353 A2	26-10-2005																			
KR	20050100608 A	19-10-2005																			
RU	2349970 C2	20-03-2009																			
TW	249729 B	21-02-2006																			
WO	2004064299 A2	29-07-2004																			
US 2006146728	A1	06-07-2006	NONE																		