AUG 30 2007
PATENT & TRADEMARK OFFICE

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

Form PTO-1449

Docket Number	Application Number
090611-0312470	10/618,633
Applicant(s)	
Robert A. KENNEWICK *et al.*	
Filing Date	Group Art Unit
July 15, 2003	2626

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A	5,918,222	06/29/1999	Fukui *et al.*	707	1	
	B	6,195,651	02/27/2001	Handel *et al.*	707	2	
	C	6,556,973	04/29/2003	Lewin	704	277	
	D	6,996,531	02/07/2006	Korall *et al.*	704	270	
	E	7,020,609	03/28/2003	Thrift *et al.*	704	270.1	
	F	7,027,975	04/11/2006	Pazandak *et al.*	704	9	
	G	7,062,488	06/13/2006	Reisman	707	8	
	H	7,092,928	08/15/2006	Elad *et al.*	706	60	
	I	7,137,126	11/14/06	Coffman *et al.*	719	328	
	J	2004/0044516	03/04/2004	Kennewick *et al.*	704	5	

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translations YES	Translations NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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July 15, 2003	2626

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A	5,799,276	08/25/1998	Komissarchik *et al.*	704	251	
	B	6,501,833	12/31/2002	Phillips *et al.*	379	88.07	
	C	2002/0143535	10/03/2002	Kist *et al.*	704	251	

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translations YES	Translations NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

OIPE JAP44
AUG 30 2007
PATENT & TRADEMARK OFFICE

PTO/SB/22 (12-04)
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U.S. Patent and Trademark Office; U.S. DEPARMENT OF COMMERCE
Under the paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless if displays a valid OMB control number.

PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a) **FY 2005** *(Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).)*	Docket Number (Optional) 090611-0312470
Application Number 10/618,633	Filed July 15, 2003
For MOBILE SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE	
Art Unit 2626	Examiner James S. Wozniak

This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above identified application.

The requested extension and fee are as follows (check time period desired and enter the appropriate fee below):

		Fee	Small Entity Fee	
[X]	One month (37 CFR 1.17(a)(1))	$120	$60	$ 120.00
[ ]	Two months (37 CFR 1.17(a)(2))	$450	$225	$
[ ]	Three months (37 CFR 1.17(a)(3))	$1020	$510	$
[ ]	Four months (37 CFR 1.17(a)(4))	$1590	$795	$
[ ]	Five months (37 CFR 1.17(a)(5))	$2160	$1080	$

[ ] Applicant claims small entity status. See 37 CFR 1.27.

08/31/2007 NAHMED1 00000152 033975 10618633
01 FC:1251 120.00 DA

[ ] A check in the amount of the fee is enclosed.

[ ] Payment by credit card. Form PTO-2038 is attached.

[ ] The Director has already been authorized to charge fees in this application to a Deposit Account.

[X] The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number 033975. I have enclosed a duplicate copy of this sheet.

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

I am the

[ ] applicant/inventor.

[ ] assignee of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed (Form PTO/SB/96).

[X] attorney or agent of record. Registration Number 58780

[ ] attorney or agent under 37 CFR 1.34. Registration number if acting under 37 CFR 1.34 _____

Signature	August 30, 2007 Date
Syed Jafar Ali Typed or printed name	(703) 770-7540 Telephone Number

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

[X] Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.136(a). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/SB/06 (07-06)
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PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number	Filing Date	☐ To be Mailed
10/618,633	07/15/2003	

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY ☒ RATE ($)	SMALL ENTITY ☒ FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =		OR	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =			X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $250 ($125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT 08/30/2007	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE ($)	SMALL ENTITY ADDITIONAL FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	* 56	Minus	** 56	= 0	X $25 =	0	OR	X $ =	
Independent (37 CFR 1.16(h))	* 3	Minus	***3	= 0	X $100 =	0	OR	X $ =	
☐ Application Size Fee (37 CFR 1.16(s))									
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
					TOTAL ADD'L FEE	0	OR	TOTAL ADD'L FEE	

AMENDMENT	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)		RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =		OR	X $ =	
Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =		OR	X $ =	
☐ Application Size Fee (37 CFR 1.16(s))									
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
					TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

Legal Instrument Examiner:
Deborah Nash

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	4104	(704/270 704/270.1 704/275 704/257).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/04 16:58
S73	15	(parser near8 agent) and "704"/$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/04 13:01
S72	15	(((spoken speech voice) near6 (dialogue dialog)) IVR) and agent near6 (share common) near6 (service resource)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/04 13:00
S70	1004	(((spoken speech voice) near6 (dialogue dialog)) IVR) and ((dialogue dialog speech voice topic domain) near6 agent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/04 10:44
S71	78	S70 and (shared share sharing common) near6 (resource information service) near8 agent	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/04 10:09
S69	320	S68 and (shared share sharing common) near6 (resource information service)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/04 10:00
S68	1004	(((spoken speech voice) near6 (dialogue dialog)) IVR) and ((dialogue dialog speech voice topic domain) near6 agent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/04 10:00

Google Exhibit 1019
Page 00254

EAST Search History

S66	460	((dialogue dialog conversational conversation speech voice domain topic) near5 agent) near7 (shar$3 common access$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/04 09:58
S67	114	S66 and ((speech voice) near5 recogni$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/03 17:19
S65	140	((dialogue dialog conversational conversation speech voice domain topic) near5 agent) near7 (select$3 choos$3 pick$3 forward$4 send$3 sent) near8 (query command request question)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/03 17:18
S64	1037	((dialogue dialog conversational conversation speech voice domain topic) near5 agent) near7 (select$3 choos$3 pick$3 forward$4 send$3 sent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/03 17:17
S63	8788	((dialogue dialog conversational conversation speech voice domain topic) near5 agent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/03 17:15
S62	3739	((dialogue dialog conversational conversation speech voice) near5 agent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/03 17:14
S13	224	(natural near6 language) and ((voice speech spoken) near6 (command question query)) and (forward$4 rout$4 determin$4 decid$4 send$4) near7 (query question command) near7 (application program dialog agent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/03 17:14

Google Exhibit 1019
Page 00255

S61	2	"6195651".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/03 16:51
S58	34	"6195651"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/03 16:50

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Page 00256

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/618,633	07/15/2003	Robert A. Kennewick	25300-003	5659

909 7590 11/26/2007

PILLSBURY WINTHROP SHAW PITTMAN, LLP
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EXAMINER	
WOZNIAK, JAMES S	

ART UNIT	PAPER NUMBER
2626	

MAIL DATE	DELIVERY MODE
11/26/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/618,633	KENNEWICK ET AL.	
	Examiner	Art Unit	
	James S. Wozniak	2626	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *30 August 2007.*

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-39 and 41-56* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-39 and 41-56* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *15 July 2003* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☒ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

Response to Amendment

1. In response to the office action from 4/30/2007, the applicant has submitted an amendment, filed 8/30/2007, amending independent claims 1, 28, and 44, while arguing to traverse the art rejection based on the limitation regarding domain agents having access to services associated with each of the domain agents *(Amendment, Pages 14-15)*. Applicant's arguments have been fully considered, however the previous rejection is maintained, altered with respect to the amended claims and due to the reasons listed below in the response to arguments.

2. In response to the amended claims, the examiner has withdrawn the previous claim objections directed towards minor informalities.

3. As no terminal disclaimer has been filed, the previous Double Patenting rejection is maintained.

Response to Arguments

4. Applicant's arguments have been fully considered but they are not persuasive for the following reasons:

With respect to **Claim 1**, the applicant argues that Lin et al *("A Distributed Architecture for Cooperative Spoken Dialogue Agents with Coherent Dialogue State and History," 1999)* fails to teach the feature of "a natural language speech processing system that... selects at least one domain agent . . . having access to services associated with each of [a] plurality of domain agents" because Lin teaches domain switching for domain agents operating independently of each other, wherein a current agent would be disconnected whenever domain switching occurs (Amendment, Pages 14-15). Thus, the applicant argues that Lin does not teach that a particular selected dialogue agent has access to services associated with a plurality of dialogue agents.

In response, the examiner notes that the present claim language does not require the concurrent operation of multiple domain agents that have access to or share the services of the other domain agents, as the applicant argues *(operating independently...a current agent would be disconnected whenever domain switching occurs, Amendment, Page 15)*. Instead, the amended claim language recites "the selected domain agent *having access* to services associated with each of the plurality of domain agents", which is taught by Lin. As can be seen in Fig. 3, each spoken dialogue agent (SDA) has access to the same set of Internet-enabled services and databases. Also, each SDA can access information services as a result of a shared dialogue/state history *(Fig. 3)*. In this cooperative case, an SDA can access services of all the SDAs through other SDAs via a switching routine *("sends the dialogue state and history to the new SDA", Section 3.1)*. For example, a bus travel SDA can access train services and weather services through the corresponding SDAs via a passed dialogue/state history *(see example in Fig. 6)*. Thus, since all SDAs have access to the same set of Internet-based services and can access all other informational services through SDA switching and a passed dialogue/state history, Lin discloses

the aforementioned claim limitation. It is further noted that although the invention may be described in the specification as having a different functions associated with agent interoperability, such functions are not clear in the current claim scope.

The art rejection of the remainder of independent/dependent claims is traversed for reasons similar to claim 1 (i.e., "a natural language speech processing system that... selects at least one domain agent . . . having access to services associated with each of [a] plurality of domain agents", Amendment, Pages 15-16). In regards to such arguments, see the response directed towards claim 1.

Claim Objections

5. Claims 36-37 are objected to because of the following informalities: The parent claim number has been deleted from the claims and no new claim number has been added. It is believed that both claims should be amended to include claim –33-- similar to amended claims 34-35.

Appropriate correction is required.

Double Patenting

6. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible

harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-56 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-40 of copending Application No. 10/452,147. Although the conflicting claims are not identical, they are not patentably distinct from each other because both applications essentially refer to the same system/method. Although application 10/452,147 additionally recites a parser and event manager in the

independent claims, these elements would be inherently included in the structure of the independent claims of the present application because the present application includes natural language understanding features (which requires parsing) and speech forwarding (which requires the use of an event manager). Thus, both claimed systems/methods are not patentably distinct from each other.

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

8. **Claims 1-4, 6, 17-18, 21-23, 27, 44, 46, and 51-54** are rejected under 35 U.S.C. 103(a) as being unpatentable over Bennett et al *(U.S. Patent: 6,615,172)* in view of Lin et al *("A Distributed Architecture for Cooperative Spoken Dialogue Agents with Coherent Dialogue State and History," 1999)*.

With respect to **Claim 1**, Bennett discloses:

A speech unit that receives the user generated natural language speech utterance and converts the user generated natural language speech utterance into an electronic signal, said user generated natural language speech utterance having at least one of a query and a command

(coding a spoken query, Col. 10, Line 54- Col. 11, Line 17; and Col. 15, Line 53- Col. 16, Line 21);

A natural language speech processing system that receives the electronic signal, that retrieves said at least one of said query and said command from the electronic signal, that selects at least one application portion associated with said at least one of said query and said command, that forwards said at least one of query and command to said at least one application portion, wherein said at least one application portion receives, processes and responds to said at least one of said query and a said command *(natural language speech recognizer that retrieves a query from a speech signal and forwards the question to a specific application portion to retrieve an answer, Col. 24, Line 46- Col. 25, Line 67; Col. 27, Lines 17-51; and Col. 29, Line 30- Col. 30, Line 7)*; and

A transceiver, in communication with said at least one application portion, that transmits an electronic message associated with said at least one of query and command *(server capable of receiving coded speech queries (as noted in the above cited columns) and transmitting retrieved answers, Col. 29, Lines 21-29, which would inherently require transceiving means).*

Although Bennett discloses processing a natural language query, forwarding the query to a specific application portion based on context, and method use with multiple application domains *(Col. 29, Line 47-Col. 30, Line 2)*, Bennett does not explicitly disclose the use of arbitrating means for selecting and forwarding a query to an executable dialog agents associated with different domains. Lin, however discloses a user interface agent that enables query forwarding to a particular dialog agent for answer retrieval *(Sections 2.2- 3.1 and Fig. 3)*. Lin further teaches that each spoken dialogue agent (SDA) has access to the same set of Internet-

enabled services and databases *(Fig. 3)*. Also, each SDA can access information services as a result of a shared dialogue/state history *(Fig. 3)*. In this cooperative case, an SDA can access services of all the SDAs through other SDAs via a switching routine *("sends the dialogue state and history to the new SDA", Section 3.1)*. Additionally, Lin teaches an architecture wherein a user interface agent receives responses from the specific SDAs and then transmits them to a user *(Fig. 3)*.

Bennett and Lin are analogous art because they are from a similar field of endeavor in information retrieval systems utilizing speech recognition. Thus, it would have been obvious to a person of ordinary skill in the art, at the time of invention, to modify the teachings of Bennett with the interface agent taught by Lin in order to handle dialog across multiple subject domains (or applications) efficiently and intelligently *(Lin, Section 1)*.

With respect to **Claim 2**, Lin further discloses:

The natural language speech processing system further comprises an event manager, said event manager coordinating interaction between components of the natural language speech processing system *(user interface agent, Fig. 3)*.

With respect to **Claim 3**, Bennett further discloses:

The natural language speech recognizer, as applied to Claim 1.

The natural language speech processing system further comprises a parser that determines a domain for the user generated natural language utterance based on the content and context of the user utterance *(natural language understanding means utilizing parsing to determine an application domain based on user speech content and context, Col. 11, Line 59-Col. 12, Line 10; Col. 17, Lines 28-36; and Col. 27, Lines 17-51)*.

Also, Lin discloses the data used by a speech recognizer and parser is domain dependent and supplied by a SDA domain *(Section 1; and Fig. 2- domain dependent lexicon, grammar rules, and language models).*

With respect to **Claim 4**, Bennett further discloses:

A text to speech engine that converts a text message to a speech message *(text-to-speech engine, Col. 10, Lines 54-67).*

Also, Lin discloses the data used by a speech synthesizer is domain dependent and supplied by a SDA domain *(Section 1; and Fig. 2- domain dependent generation flows for generating a speech synthesis response).*

With respect to **Claim 6**, Lin further discloses dialog domain agents associated with travel information *(Fig. 3).*

With respect to **Claim 17**, Bennett further discloses:

The transceiver is a wide-area RF transceiver *(RF link over a cellular network, Col. 10, Lines 33-53).*

With respect to **Claim 18**, Bennett further discloses:

The speech unit includes a speech coder *(speech coding means, Col. 15, Line 53- Col.16, Line 21).*

With respect to **Claim 21**, Bennett further discloses:

The speech coder uses an adaptive lossy audio compression *(speech encoding that includes only the least amount of information necessary to adequately and quickly complete speech recognition, Col. 15, Line 543- Col. 16, Line 21).*

With respect to **Claim 22**, Bennett further shows:

The speech unit is located remotely from the natural language speech processing system and the transceiver *(Fig. 1)*.

With respect to **Claim 23**, Bennett further discloses a display *(Col. 10, Lines 54-65)*.

With respect to **Claim 27**, Bennett discloses a network for cellular phones *(Col. 10, Lines 33-53)*, while Lin recites a common database of dialog states/histories shared across multiple common agents *(Fig. 3)*.

Claim 44 contains subject matter similar to Claim 1, and thus, is rejected for the same reasons.

Claim 46 contains subject matter similar to Claim 6, and thus, is rejected for the same reasons.

Claim 51 contains subject matter similar to Claim 17, and thus, is rejected for the same reasons.

With respect to **Claim 52**, Bennett discloses a speech filtering means *(Col. 15, Line 53-Col. 16, Line 14)*.

Claim 53 contains subject matter similar to Claim 18, and thus, is rejected for the same reasons.

Claim 54 contains subject matter similar to Claim 27, and thus, is rejected for the same reasons.

9. **Claims 7-12, 19, 45, and 55-56** are rejected under 35 U.S.C. 103(a) as being unpatentable over Bennett et al in view of Lin et al and further in view of Gerson *(U.S. Patent: 6,937,977)*.

With respect to **Claims 7-10**, Bennett in view of Lin discloses dialog agents capable of retrieving responses to speech inputs for a number of different applications, as applied to Claim 1. Bennett in view of Lin does not specifically disclose an application domain related to communicating with a vehicle device in order to enable device control. Gerson, however, discloses a vehicle control server application that recognizes a control command and communicates a command message back to a vehicle device to enable device control *(Col. 6, Line 66-Col. 7, Line 15)*.

Bennett, Lin, and Gerson are analogous art because they are from a similar field of endeavor in speech-controlled systems. Thus, it would have been obvious to a person of ordinary skill in the art, at the time of invention, to modify the teachings of Bennett in view of Lin with the vehicle device control application taught by Gerson in order to increase system applicability by enabling its use for hands-free control of vehicle devices *(Gerson, Col. 6, Line 66- Col. 7, Line 15; and Col. 9, Lines 5-8)*.

With respect to **Claim 11**, Gerson further shows the vehicle control application located remotely from a vehicle *(Fig. 1)*.

With respect to **Claim 12**, Gerson further discloses control of a vehicle entertainment system and other vehicle devices *(Col. 6, Line 66- Col. 7, Line 15)*.

With respect to **Claim 19**, Gerson further discloses an echo canceling block capable of eliminating echoes and noise in varying conditions that provides the benefit of preventing an echo from being recognized at a speech recognizer *(Col. 9, Line 24-Col. 10, Line 10)*.

Claim 45 contains subject matter similar to Claim 12, and thus, is rejected for the same reasons.

With respect to **Claim 55**, Gerson further discloses receiving a speech utterance in a vehicle *(Col. 9, Lines 5-22)*.

Claim 56 contains subject matter similar to Claim 27, and thus, is rejected for the same reasons.

10. Claims 5, 13-16, 28-29, 31-37, 41, and 47-50 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bennett et al in view of Lin et al and further in view of Hedin et al *(U.S. Patent: 6,185,535)*.

With respect to **Claims 5 and 13**, Bennett in view of Lin discloses dialog agents capable of retrieving responses to speech inputs for a number of different applications, as applied to Claim 1. Bennett in view of Lin does not specifically disclose the communication of a recognized command with a remotely located service, however, Hedin discloses a speech recognizer that sends a recognized speech command message to an external service *(Col. 9, Line 36- Col. 10, Line 24; and Fig. 3, Elements 205, 207 and 307)*.

Bennett, Lin, and Hedin are analogous art because they are from a similar field of endeavor in speech-controlled systems. Thus, it would have been obvious to a person of ordinary skill in the art, at the time of invention, to modify the teachings of Bennett in view of Lin with the remote service communication means taught by Hedin in order to enable access and control of remote server applications *(Hedin, Col. 2, Lines 39-42)*.

With respect to **Claim 14**, Hedin discloses the remotely located specialized services as applied to Claim 13.

With respect to **Claim 15**, Hedin further discloses:

The transceiver transmits the message via a communication network *(wireless communication network, Col. 5, Lines 34-55)*.

With respect to **Claim 16**, Bennett further discloses:

The communication network is a wide area wireless network *(cellular network, Col. 10, Lines 33-53)*.

Claim 28 recites subject matter similar to Claims 1-2 and 5, and thus, is rejected for the same reasons.

With respect to **Claim 29**, Bennett discloses the speech coding process as applied to Claim 18.

Claim 31 contains subject matter similar to Claims 1 and 6, and thus, is rejected for the same reasons.

Claims 32-33 contains subject matter similar to Claim 5, and thus, is rejected for the same reasons.

With respect to **Claim 34**, Hedin further discloses the remotely located server device as shown in Fig. 1b.

Claim 35 contains subject matter similar to Claim 15, and thus, is rejected for the same reasons.

Claim 36 contains subject matter similar to Claim 14, and thus, is rejected for the same reasons.

Claim 37 contains subject matter similar to Claim 17, and thus, is rejected for the same reasons.

Claim 41 contains subject matter similar to Claim 22, and thus, is rejected for the same reasons.

With respect to **Claims 47-48**, Bennett in view of Lin discloses dialog agents capable of retrieving responses to speech inputs for a number of different applications, as applied to Claim 44. Bennett in view of Lin does not specifically disclose the communication of a recognized command with a remotely located service device, however, Hedin discloses a speech recognizer that sends a recognized speech command message to an external service *(Col. 9, Line 36- Col. 10, Line 24; and Fig. 3, Elements 205, 207 and 307)*.

Bennett, Lin, and Hedin are analogous art because they are from a similar field of endeavor in speech-controlled systems. Thus, it would have been obvious to a person of ordinary skill in the art, at the time of invention, to modify the teachings of Bennett in view of Lin with the remote service communication means taught by Hedin in order to enable access and control of remote server applications *(Hedin, Col. 2, Lines 39-42)*.

Claim 49 contains subject matter similar to Claim 15, and thus, is rejected for the same reasons.

Claim 50 contains subject matter similar to Claim 14, and thus, is rejected for the same reasons.

11. **Claim 20** is rejected under 35 U.S.C. 103(a) as being unpatentable over Bennett et al in view of Lin et al and further in view of DeLine et al *(U.S. Patent: 6,420,975)*.

With respect to **Claim 20**, Bennett in view of Lin discloses the dialog agent system capable of receiving and encoding a user speech input, as applied to Claim 18. Bennett in view

of Lin does not specifically suggest that a speech input from a user is received via a one-dimensional microphone array, however DeLine discloses the use of such an array in a speech-enabled control system *(lined array of microphones, Col. 48, Lines 53-63)*.

Bennett, Lin, and DeLine are analogous art because they are from a similar field of endeavor in speech-controlled systems. Thus, it would have been obvious to a person of ordinary skill in the art, at the time of invention, to modify the teachings of Bennett in view of Lin with the one dimensional microphone array taught by DeLine in order to enhance vocal signal content and eliminate acoustic noise *(DeLine, Col. 48, Lines 53-63)*.

12. **Claims 24-26** are rejected under 35 U.S.C. 103(a) as being unpatentable over Bennett et al in view of Lin et al and further in view of Turnbull et al *(U.S. Patent: 6,980,092)*.

With respect to **Claims 24-25**, Bennett in view of Lin discloses the speech interactive system, as applied to Claim 1. Bennett in view of Lin does not specifically suggest system implementation in a telematics control unit. Turnbull, however, discloses implementation of a speech interactive system embedded in a telematics device *(speech recognition processing, Col. 30, Line 43- Col. 31, Line 2, in an in-vehicle telematics assembly, Col. 29, Lines 56-63; controlling in-vehicle devices in response to recognized voice commands, Col.28, Line 53- Col. 29, Line 36, Col. 30, Line 43- Col. 31, Line 2, and Col. 36, Lines 57-63; and control bus for sending control signals to the various vehicle devices, Fig. 11, Element 102)*.

Bennett, Lin, and Turnbull are analogous art because they are from a similar field of endeavor in speech-controlled systems. Thus, it would have been obvious to a person of ordinary skill in the art, at the time of invention, to modify the teachings of Bennett in view of

Lin with the telematics unit taught by Turnbull in order to implement a speech communication and control system that can be readily installed in a vehicle *(Turnbull, Col. 3, Lines 20-22)*.

With respect to **Claim 26**, Turnbull discloses the in-vehicle telematics unit as applied to Claims 24-25.

13. **Claims 30, 38-39, and 42-43** are rejected under 35 U.S.C. 103(a) as being unpatentable over Bennett et al in view of Lin et al further in view of Hedin et al and further in view of Gerson.

With respect to **Claim 30**, Bennett in view of Lin and further in view of Hedin discloses dialog agents capable of retrieving responses to speech inputs for a number of different applications, as applied to Claim 28. Bennett in view of Lin and further in view of Hedin does not specifically disclose an application domain related to communicating with a vehicle device in order to enable device control. Gerson, however, discloses a vehicle control server application that recognizes a control command and communicates a command message back to a vehicle device to enable device control *(Col. 6, Line 66-Col. 7, Line 15)*.

Bennett, Lin, Hedin, and Gerson are analogous art because they are from a similar field of endeavor in speech-controlled systems. Thus, it would have been obvious to a person of ordinary skill in the art, at the time of invention, to modify the teachings of Bennett in view of Lin and further in view of Hedin with the vehicle device control application taught by Gerson in order to increase system applicability by enabling its use for hands-free control of vehicle devices *(Gerson, Col. 6, Line 66- Col. 7, Line 15; and Col. 9, Lines 5-8)*.

With respect to **Claims 38-39**, Gerson further discloses an echo canceling block capable of eliminating echoes and noise in varying conditions that provides the benefit of preventing an echo from being recognized at a speech recognizer *(Col. 9, Line 24-Col. 10, Line 10)*.

With respect to **Claim 42**, Gerson further discloses receiving a speech utterance in a vehicle *(Col. 9, Lines 5-22)*.

Claim 43 contains subject matter similar to Claims 27 and 42, and thus, is rejected for the same reasons.

Conclusion

14. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

15. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Elio et al *("On Abstract Task Models and Conversation Policies," 1999)*- discloses cooperative dialog agents that share informational resources.

Turunen *("Adaptive Interaction Methods in Speech User Interfaces," 2001)*- discloses a interactive dialog system where all components has access to all informational system services.

16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to James S. Wozniak whose telephone number is (571) 272-7632. The examiner can normally be reached on M-Th, 7:30-5:00, F, 7:30-4, Off Alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Edouard can be reached at (571) 272-7603. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

James S. Wozniak
10/25/2007

PATRICK N. EDOUARD
SUPERVISORY PATENT EXAMINER

Interview Summary	Application No.	Applicant(s)	
	10/618,633	KENNEWICK ET AL.	
	Examiner	Art Unit	
	James S. Wozniak	2626	

All participants (applicant, applicant's representative, PTO personnel):

(1) *James S. Wozniak.* (3)____.

(2) *Syed Ali (Reg. No. 58,780).* (4)____.

Date of Interview: *20 August 2007.*

Type: a)☐ Telephonic b)☐ Video Conference
c)☒ Personal [copy given to: 1)☐ applicant 2)☒ applicant's representative]

Exhibit shown or demonstration conducted: d)☐ Yes e)☒ No.
If Yes, brief description: _____.

Claim(s) discussed: *1*.

Identification of prior art discussed: *Bennett et al (US 6,615,172) and Lin et al ("A Distributed Architecture for Cooperative Spoken Dialogue Agents with Coherent Dialogue State and History," 1999).*

Agreement with respect to the claims f)☐ was reached. g)☒ was not reached. h)☐ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: *Applicants' representative discussed possible differences between the prior art of record and the applicants' disclosure. The examiner noted that further consideration of the Lin reference and a further prior art search would be required in response to any amendments directed to such possible differences. No specific claim language was agreed upon* .

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN A NON-EXTENDABLE PERIOD OF THE LONGER OF ONE MONTH OR THIRTY DAYS FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.

_____
Examiner's signature, if required

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record
A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews
Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.
All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:
- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:
1) A brief description of the nature of any exhibit shown or any demonstration conducted,
2) an identification of the claims discussed,
3) an identification of the specific prior art discussed,
4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
5) a brief identification of the general thrust of the principal arguments presented to the examiner,
   (The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
6) a general indication of any other pertinent matters discussed, and
7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

AUG 30 2007
PATENT & TRADEMARK OFFICE

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

Form PTO-1449

Docket Number	Application Number
090611-0312470	10/618,633
Applicant(s)	
Robert A. KENNEWICK *et al.*	
Filing Date	**Group Art Unit**
July 15, 2003	2626

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/J.W./	A	5,918,222	06/29/1999	Fukui *et al.*	707	1	
	B	6,195,651	02/27/2001	Handel *et al.*	707	2	
	C	6,556,973	04/29/2003	Lewin	704	277	
	D	6,996,531	02/07/2006	Korall *et al.*	704	270	
	E	7,020,609	03/28/2003	Thrift *et al.*	704	270.1	
	F	7,027,975	04/11/2006	Pazandak *et al.*	704	9	
	G	7,062,488	06/13/2006	Reisman	707	8	
	H	7,092,928	08/15/2006	Elad *et al.*	706	60	
	I	7,137,126	11/14/06	Coffman *et al.*	719	328	
/J.W./	J	2004/0044516	03/04/2004	Kennewick *et al.*	704	5	

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translations YES	Translations NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

EXAMINER	DATE CONSIDERED
/James Wozniak/	10/04/2007

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

AUG 30 2007
PATENT & TRADEMARK OFFICE

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

Form PTO-1449

Docket Number	Application Number
090611-0312470	10/618,633
Applicant(s)	
Robert A. KENNEWICK *et al.*	
Filing Date	Group Art Unit
July 15, 2003	2626

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/J.W./	A	5,799,276	08/25/1998	Komissarchik *et al.*	704	251	
/J.W./	B	6,501,833	12/31/2002	Phillips *et al.*	379	88.07	
/J.W./	C	2002/0143535	10/03/2002	Kist *et al.*	704	251	

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translations YES	Translations NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

EXAMINER	DATE CONSIDERED
/James Wozniak/	10/04/2007

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

400631009v1

Notice of References Cited	Application/Control No. 10/618,633	Applicant(s)/Patent Under Reexamination KENNEWICK ET AL.	
	Examiner James S. Wozniak	Art Unit 2626	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-			
	B	US-			
	C	US-			
	D	US-			
	E	US-			
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	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
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	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	Elio et al, "On abstract task models and conversation policies," in Workshop on Specifying and Implementing Conversation Policies, Autonomous Agents '99, Seattle, 1999.
	V	Turunen; "Adaptive interaction methods in speech user interfaces", Conference on Human Factors in Computing Systems, Seattle, Washington, 2001, pp. 91-92.
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Index of Claims

Application/Control No.	Applicant(s)/Patent under Reexamination
10/618,633	KENNEWICK ET AL.
Examiner	**Art Unit**
James S. Wozniak	2626

√	Rejected	–	(Through numeral) Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

Claim		Date
Final	Original	10/25/07
	1	√
	2	√
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Claim		Date
Final	Original	10/25/07
	51	√
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Claim		Date
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Search Notes	Application/Control No.	Applicant(s)/Patent under Reexamination	
	10/618,633	KENNEWICK ET AL.	
	Examiner	Art Unit	
	James S. Wozniak	2626	

SEARCHED			
Class	Subclass	Date	Examiner
704	270	10/4/2007	
704	270.1	10/4/2007	
704	275	10/4/2007	
704	257	10/4/2007	

INTERFERENCE SEARCHED			
Class	Subclass	Date	Examiner

SEARCH NOTES (INCLUDING SEARCH STRATEGY)		
	DATE	EXMR
EAST Search (see attached printout)	10/4/2007	
Google Scholar Search	10/4/07	

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS :	Robert A. KENNEWICK *et al.*	CONFIRMATION NO.:	5659
SERIAL NUMBER :	10/618,633	EXAMINER:	James S. Wozniak
FILING DATE :	July 15, 2003	ART UNIT:	2626
FOR :	MOBILE SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE		

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicants hereby make of record in the above-identified application the documents listed on the attached Form PTO-1449.

Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

Google Exhibit 1019
Page 00283

This Supplemental Information Disclosure Statement is being filed more than three months after the filing date of a national application other than a continued prosecution application under 37 C.F.R. §1.53(d), or more than three months after the date of entry of the national stage as set forth in 37 C.F.R. §1.491 in an international application, and after the mailing date of any of a Final Action under 37 C.F.R. §1.113, a Notice of Allowance under 37 C.F.R. §1.311, or an action that otherwise closes prosecution in the application, but on or before payment of the Issue Fee. 37 C.F.R. §1.97(d).

I hereby certify that each item of information contained in this Supplemental Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Supplemental Information Disclosure Statement. 37 C.F.R. §1.97(e)(1).

Please charge the $180.00 fee [37 C.F.R. §1.17(p)] to Deposit Account No. 03-3975. In addition, please charge any fee deficiencies, or credit any overpayment, to Deposit Account No. 03-3975 as needed to ensure consideration of the Supplemental Information Disclosure Statement.

These documents were cited in a search report by a foreign patent office in a counterpart foreign application. Submission of an English language version of the search report that indicates the degree of relevance found by the foreign office is provided.

Google Exhibit 1019
Page 00284

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449.

Respectfully submitted,

PILLSBURY WINTHROP SHAW PITTMAN LLP

By _____
Syed Jafar Ali
Registration No.: 58,780

Customer No.
00909

P. O. Box 10500
McLean, Virginia 22102
Telephone: (703) 770-7900
Telefax: (703) 770-7901

Dated: January 24, 2008

Google Exhibit 1019
Page 00285

INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Docket Number	Application Number
	090611-0312470	10/618,633
	Applicant(s)	
	Robert A. KENNEWICK *et al.*	
	Filing Date	Group Art Unit
Form PTO-1449	July 15, 2003	2626

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A	6,567,797	05/20/2003	Schuetze *et al.*	707	2	
	B	6,570,555	05/27/2003	Prevost *et al.*	345	156	
	C	6,735,592	05/11/2004	Neumann *et al.*	707	101	
	D	6,757,718	06/29/2004	Halverson *et al.*	709	218	
	E	2002/0188602	12/12/2002	Stubler *et al.*	707	3	
	F	2003/0112267	06/19/2003	Belrose	345	728	

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translations YES	Translations NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

	G	CHAI *et al.*, "MIND: A Semantics-Based Multimodal Interpretation Framework for Conversational System", Proceedings of the International CLASS Workshop on Natural, Intelligent and Effective Interaction in Multimodal Dialogue Systems, June 2002, pages 37-46.
	H	CHEYER *et al.*, "Multimodal Maps: An Agent-Based Approach", International Conference on Cooperative Multimodal Communication (CMC/95), May 24-26, 1995, pages 111-121.

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS :	Robert A. KENNEWICK *et al.*	CONFIRMATION NO.:	5659
SERIAL NUMBER :	10/618,633	EXAMINER:	James S. Wozniak
FILING DATE :	July 15, 2003	ART UNIT:	2626
FOR :	MOBILE SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE		

FURTHER SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicants hereby make of record in the above-identified application the document listed on the attached Form PTO-1449.

Applicants reserve the right to establish the patentability of the claimed invention over the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This Supplemental Information Disclosure Statement is being filed more than three months after the filing date of a national application other than a continued prosecution application under 37 C.F.R. §1.53(d), or more than three months after the date of entry of the national stage as set forth in 37 C.F.R. §1.491 in an international application, and after the

mailing date of any of a Final Action under 37 C.F.R. §1.113, a Notice of Allowance under 37 C.F.R. §1.311, or an action that otherwise closes prosecution in the application, but on or before payment of the Issue Fee. 37 C.F.R. §1.97(d).

I hereby certify that no item of information contained in this Supplemental Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to my knowledge after making reasonable inquiry, no item of information contained in this Supplemental Information Disclosure Statement was known to any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing of this Supplemental Information Disclosure Statement. 37 C.F.R. §1.97(e)(2).

The $180.00 fee [37 C.F.R. §1.17(p)] is being paid with the Supplemental Information Disclosure Statement being filed under even date herewith.

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449.

Respectfully submitted,

PILLSBURY WINTHROP SHAW PITTMAN LLP

By _____
Syed Jafar Ali
Registration No.: 58,780

Customer No.
00909

P. O. Box 10500
McLean, Virginia 22102
Telephone: (703) 770-7900
Telefax: (703) 770-7901

Dated: January 24, 2008

Google Exhibit 1019
Page 00288

INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Docket Number	Application Number
	090611-0312470	10/618,633
	Applicant(s)	
	Robert A. KENNEWICK *et al.*	
	Filing Date	Group Art Unit
Form PTO-1449	July 15, 2003	2626

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A	7,289,606	10/30/2007	Sibal *et al.*	379	52	

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translations YES	Translations NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Electronic Patent Application Fee Transmittal

Application Number:	10618633
Filing Date:	15-Jul-2003
Title of Invention:	Mobile systems and methods for responding to natural language speech utterance
First Named Inventor/Applicant Name:	Robert A. Kennewick
Filer:	Syed Jafar Ali/Susan Trader
Attorney Docket Number:	090611-0312470

Filed as Large Entity

Utility Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
Submission- Information Disclosure Stmt	1806	1	180	180
		Total in USD ($)		**180**

Electronic Acknowledgement Receipt

EFS ID:	2760354
Application Number:	10618633
International Application Number:	
Confirmation Number:	5659
Title of Invention:	Mobile systems and methods for responding to natural language speech utterance
First Named Inventor/Applicant Name:	Robert A. Kennewick
Customer Number:	909
Filer:	Syed Jafar Ali/Susan Trader
Filer Authorized By:	Syed Jafar Ali
Attorney Docket Number:	090611-0312470
Receipt Date:	24-JAN-2008
Filing Date:	15-JUL-2003
Time Stamp:	13:37:14
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$180
RAM confirmation Number	7375
Deposit Account	033975
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes) /Message Digest	Multi Part /.zip	Pages (if appl.)

1		0312470_SIDS.pdf	311949 3a93a5e6bcf18bfad3e78fc7441c8ab74a3ed4d3	yes	10

Multipart Description/PDF files in .zip description		
Document Description	**Start**	**End**
Information Disclosure Statement Letter	1	9
Information Disclosure Statement (IDS) Filed	10	10

Warnings:					
Information:					
2	NPL Documents	CHAI.pdf	1036235 82e5c44d0c4460a84b5763f6ca9858e2072a4f38	no	10
Warnings:					
Information:					
3	NPL Documents	CHEYER.pdf	136285 5e49cb5ed1eb7cad08bed8e144f0d4292d0d5744	no	11
Warnings:					
Information:					
4		0312470_FSIDS.pdf	90958 7f15cdf11f255ebf042e531b427a74fbfeeb2e83	yes	3

Multipart Description/PDF files in .zip description		
Document Description	**Start**	**End**
Information Disclosure Statement Letter	1	2
Information Disclosure Statement (IDS) Filed	3	3

Warnings:					
Information:					
5	Fee Worksheet (PTO-06)	fee-info.pdf	8208 b25317c65e11c0b95c5864badc775d8d1eec21b4	no	2
Warnings:					
Information:					
			Total Files Size (in bytes):	1583635	

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/618,633	07/15/2003	Robert A. Kennewick	090611-0312470	5659

909 7590 02/06/2008

PILLSBURY WINTHROP SHAW PITTMAN, LLP
P.O. BOX 10500
MCLEAN, VA 22102

EXAMINER	
WOZNIAK, JAMES S	

ART UNIT	PAPER NUMBER
2626	

MAIL DATE	DELIVERY MODE
02/06/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Interview Summary	Application No.	Applicant(s)	
	10/618,633	KENNEWICK ET AL.	
	Examiner	Art Unit	
	James S. Wozniak	2626	

All participants (applicant, applicant's representative, PTO personnel):

(1) *James S. Wozniak.* (3)_____.

(2) *Syed Ali (Reg. No. 58,780).* (4)_____.

Date of Interview: *16 January 2008.*

Type: a)☒ Telephonic b)☐ Video Conference
c)☐ Personal [copy given to: 1)☐ applicant 2)☐ applicant's representative]

Exhibit shown or demonstration conducted: d)☐ Yes e)☒ No.
If Yes, brief description: _____.

Claim(s) discussed: *1*.

Identification of prior art discussed: *Lin et al.*

Agreement with respect to the claims f)☐ was reached. g)☒ was not reached. h)☐ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: *Discussed potential differences between the applicant's disclosed invention and the prior art of record for possible inclusion in the claims. No agreement with respect to the claims was reached*.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN A NON-EXTENDABLE PERIOD OF THE LONGER OF ONE MONTH OR THIRTY DAYS FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.

Examiner's signature, if required

PTO/SB/30 (04-05)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Request for Continued Examination (RCE) Transmittal

Address to:
Mail Stop RCE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Application Number	10/618,633
Filing Date	July 15, 2003
First Named Inventor	ROBERT A. KENNEWICK
Art Unit	2626
Examiner Name	James S. Wozniak
Attorney Docket Number	090611-0312470

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. See Instruction Sheet for RCEs (not to be submitted to the USPTO) on page 2.

1. Submission required under 37 CFR 1.114 Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

   a. ☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

      i. ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____

      ii. ☐ Other _____

   b. ☒ Enclosed

      i. ☒ Amendment/Reply

      ii. ☐ Affidavit(s)/ Declaration(s)

      iii. ☐ Information Disclosure Statement (IDS)

      iv. ☐ Other _____

2. Miscellaneous

   a. ☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of _____ months. (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

   b. ☐ Other _____

3. Fees The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.

   a. ☒ The Director is hereby authorized to charge the following fees, any underpayment of fees, or credit any overpayments, to Deposit Account No. 033975. I have enclosed a duplicate copy of this sheet.

      i. ☒ RCE fee required under 37 CFR 1.17(e)

      ii. ☒ Extension of time fee (37 CFR 1.136 and 1.17)

      iii. ☐ Other _____

   b. ☐ Check in the amount of $ _____ enclosed

   c. ☐ Payment by credit card (Form PTO-2038 enclosed)

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

Signature		Date	April 28, 2008
Name (Print/Type)	Syed Jafar Ali	Registration No.	58780

CERTIFICATE OF MAILING OR TRANSMISSION

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop RCE, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450 or facsimile transmitted to the U.S. Patent and Trademark Office on the date shown below.

Signature			
Name (Print/Type)		Date	

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Mail Stop RCE, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/SB/22 (12-04)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARMENT OF COMMERCE
Under the paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless if displays a valid OMB control number.

PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a) **FY 2005** ***(Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).)***	Docket Number (Optional) 090611-0312470
Application Number 10/618,633	Filed July 15, 2003
For MOBILE SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE	
Art Unit 2626	Examiner James S. Wozniak

This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above identified application.

The requested extension and fee are as follows (check time period desired and enter the appropriate fee below):

		Fee	Small Entity Fee	
☐	One month (37 CFR 1.17(a)(1))	$120	$60	$
☒	Two months (37 CFR 1.17(a)(2))	$450	$225	$ 230.00
☐	Three months (37 CFR 1.17(a)(3))	$1020	$510	$
☐	Four months (37 CFR 1.17(a)(4))	$1590	$795	$
☐	Five months (37 CFR 1.17(a)(5))	$2160	$1080	$

☒ Applicant claims small entity status. See 37 CFR 1.27.

☐ A check in the amount of the fee is enclosed.

☐ Payment by credit card. Form PTO-2038 is attached.

☐ The Director has already been authorized to charge fees in this application to a Deposit Account.

☒ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number 033975. I have enclosed a duplicate copy of this sheet.

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

I am the

☐ applicant/inventor.

☐ assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed (Form PTO/SB/96).

☒ attorney or agent of record. Registration Number 58,780

☐ attorney or agent under 37 CFR 1.34.
Registration number if acting under 37 CFR 1.34 _____

Signature	April 28, 2008 Date
Syed Jafar Ali Typed or printed name	(703) 770-7540 Telephone Number

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

☒ Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.136(a). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Electronic Patent Application Fee Transmittal

Application Number:	10618633
Filing Date:	15-Jul-2003
Title of Invention:	Mobile systems and methods for responding to natural language speech utterance
First Named Inventor/Applicant Name:	Robert A. Kennewick
Filer:	Syed Jafar Ali/Kathy Oliver
Attorney Docket Number:	090611-0312470

Filed as Small Entity

Utility Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Extension - 2 months with $0 paid	2252	1	230	230

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
Request for continued examination	2801	1	405	405
		Total in USD ($)		**635**

Electronic Acknowledgement Receipt

EFS ID:	3217037
Application Number:	10618633
International Application Number:	
Confirmation Number:	5659
Title of Invention:	Mobile systems and methods for responding to natural language speech utterance
First Named Inventor/Applicant Name:	Robert A. Kennewick
Customer Number:	909
Filer:	Syed Jafar Ali/Kathy Oliver
Filer Authorized By:	Syed Jafar Ali
Attorney Docket Number:	090611-0312470
Receipt Date:	28-APR-2008
Filing Date:	15-JUL-2003
Time Stamp:	14:10:28
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$635
RAM confirmation Number	7756
Deposit Account	033975
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes) /Message Digest	Multi Part /.zip	Pages (if appl.)
1		0312470Rsp.pdf	739235 8dc6e27229be1c338896008339c8f25220d78b50b	yes	18

Multipart Description/PDF files in .zip description

Document Description	Start	End
Amendment Submitted/Entered with Filing of CPA/RCE	1	1
Claims	2	10
Applicant Arguments/Remarks Made in an Amendment	11	16
Request for Continued Examination (RCE)	17	17
Extension of Time	18	18

Warnings:

Information:

2	Fee Worksheet (PTO-06)	fee-info.pdf	8351 308e1dbfc3a740ddf1a609137cb91ad8a953dbf9	no	2

Warnings:

Information:

Total Files Size (in bytes):	747586

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS :	Robert A. KENNEWICK et al.	CONFIRMATION NO.:	5659
SERIAL NUMBER :	10/618,633	EXAMINER:	James S. Wozniak
FILING DATE :	July 15, 2003	ART UNIT:	2626
FOR :	MOBILE SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE		

REPLY AND AMENDMENT ACCOMPANYING REQUEST FOR CONTINUED EXAMINATION

Mail Stop RCE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

In response to the Final Office Action mailed **November 26, 2007**, please amend the above-identified application as follows:

Amendments to the Claims begin on page **2** of this paper.

Remarks/Arguments begin on page **11** of this paper.

It is not believed that extensions of time or fees for net addition of claims are required beyond those that may otherwise be provided for in documents accompanying this paper. However, if additional extensions of time are necessary to prevent abandonment of this application, then such extensions of time are hereby petitioned for under 37 C.F.R. § 1.136(a), and any fees required therefore (including fees for net addition of claims) are hereby authorized to be charged to our Deposit Account No. 033975 (**Ref. No. 090611-0312470**).

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AMENDMENT

Please replace all prior versions and listings of claims with the following listing of claims.

LISTING OF CLAIMS:

1. (**Currently Amended**) A mobile system responsive to a user generated natural language speech utterance, comprising:

~~a speech unit that~~ receives a ~~the user generated~~ natural language speech utterance from a user and ~~converts~~ encodes the received ~~user generated~~ natural language speech utterance into an electronic signal; and

a natural language speech processing system that receives, processes, and responds to the ~~electronic signal~~ encoded natural language speech utterance using data received from a plurality of domain agents, wherein the natural language speech processing system includes:

a speech recognition engine that ~~identifies~~ recognizes at least one of words or phrases in the encoded natural language speech utterance using ~~a query or a command from~~ the ~~received electronic signal using~~ data received from the ~~supplied by a~~ plurality of domain agents;

a parser that interprets the recognized words or phrases using the data received from the plurality of domain agents, wherein the parser interprets the recognized words or phrases by:

determining a context for the natural language speech utterance;

selecting ~~that selects~~ at least one of the plurality of domain ~~agent~~ agents based on ~~associated with~~ the determined context; and

transforming the recognized words or phrases into at least one of a question ~~identified query~~ or a command ~~from among the plurality of domain agents, and that forwards~~ the ~~identified query~~ at least one question or command formulated in a grammar that ~~to the selected domain agent, wherein~~ the selected domain agent uses to process ~~is an autonomous executable that~~

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~~receives, processes, and responds to~~ the ~~identified query~~ formulated question or command; and

an agent architecture that communicatively couples ~~the selected domain agent having access to~~ services of ~~associated with~~ each of an agent manager, a system agent, the plurality of domain agents,[[;]] and an agent library, wherein ~~a transceiver in communication with the selected domain agent, wherein the transceiver receives a response to the identified query or command from~~ the selected domain agent uses the communicatively coupled services to create a response to the formulated question or command and format ~~transmits an electronic message associated~~ the ~~received~~ response for presentation to the user.

2. (**Currently Amended**) The mobile system according to claim **1**, wherein the natural language speech processing system further includes an event manager that sends and receives events to components of the natural language speech processing system to coordinate ~~coordinates~~ interaction among ~~a plurality of~~ the components of ~~associated with~~ the natural language speech processing system.

3. (**Cancelled**)

4. (**Currently Amended**) The mobile system according to claim [[3]] 1, wherein the ~~received~~ response includes a text string[[,]] and ~~wherein~~ the natural language speech processing system further includes a text to speech engine that creates an encoded ~~uses the data supplied by the plurality of domain agents to convert the text string to a~~ speech message to be annunciated to ~~included in~~ the ~~transmitted electronic message~~ user.

5. (**Cancelled**)

6. (**Previously Presented**) The mobile system according to claim 1, wherein the selected domain agent includes data associated with at least one of driving directions, travel

information, restaurant information, vehicle systems information, safety information, or entertainment information.

7. (**Previously Presented**) The mobile system according to claim 1, wherein the selected domain agent includes data for communicating with one or more devices.

8. (**Previously Presented**) The mobile system according to claim 7, wherein the data for communicating with the one or more devices includes data for controlling the one or more devices.

9. (**Cancelled**)

10. (**Currently Amended**) The mobile system according to claim [[9]] 1, wherein at least one of the one or more devices is associated with a vehicle.

11. (**Currently Amended**) The mobile system according to claim 10, wherein at least one of the speech unit[[,]] or the natural language speech processing system~~, or the transceiver~~ is located remotely from the vehicle.

12. (**Previously Presented**) The mobile system according to claim 10, wherein the device associated with the vehicle is at least one of a navigation system, a vehicle monitoring system, a security system, a vehicle control system, or a vehicle media system.

13. (**Currently Amended**) The mobile system according to claim 1, wherein the communicatively coupled services include ~~transmitted electronic message is sent to~~ at least one remotely located service and the selected domain agent includes data for controlling or communicating with the remotely located service.

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14. (**Previously Presented**) The mobile system according to claim 13, wherein the remotely located service includes at least one of a payment service provider, a customer relationship management system, a specialized service, a location service, or an emergency service.

15. (**Currently Amended**) The mobile system according to claim 13, wherein the speech unit and the natural language speech processing system each include respective transceivers that communicate ~~transmitted electronic message is transmitted~~ via a communication network.

16. (**Original**) The mobile system according to claim 15, wherein the communication network is a wide area wireless network.

17. (**Currently Amended**) The mobile system according to claim [[1]] 15, wherein the transceiver is a wide-area RF transceiver.

18. (**Currently Amended**) The mobile system according to claim 1, wherein the speech unit includes ~~at least one of~~ a speech coder that encodes the natural language speech utterance into the electronic signal, an array microphone that receives the natural language speech utterance, ~~or~~ and a filter that optimizes a signal to noise ratio of the encoded natural language speech utterance.

19. (**Original**) The mobile system according to claim 18, wherein the filter employs adaptive echo cancellation.

20. (**Original**) The mobile system according to claim 18, wherein the array microphone is at least a one-dimensional array.

21. (**Original**) The mobile system according to claim 18, wherein the speech coder uses an adaptive lossy audio compression.

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22. (**Currently Amended**) The mobile system according to claim 1, wherein the speech unit is located remotely from ~~at least one of~~ the natural language speech processing system ~~or the transceiver~~.

23. (**Previously Presented**) The mobile system according to claim 1, further comprising at least one of a display or a keypad.

24. (**Currently Amended**) The mobile system according to claim 1, further comprising a telematics control unit that interfaces with one or more devices on a vehicle.

25. (**Currently Amended**) The mobile system according to claim 24, wherein at least one of the speech unit[[,]] or the natural language speech processing system~~, or the transceiver~~ is embedded in the telematics control unit.

26. (**Currently Amended**) The mobile system according to claim 1, wherein at least one of the speech unit[[,]] or the natural language speech processing system~~, or the transceiver~~ is embedded ~~into~~ in at least one of a vehicle, a handheld device, a fixed computer, or a mobile computer device.

27. (**Currently Amended**) The mobile system according to claim 1, wherein the communicatively coupled services include ~~further comprising~~ at least one ~~network resource shared by a plurality of devices,~~ the shared network resource ~~including at least one of the speech unit, the natural language speech processing system, the transceiver, the plurality of agents, user profiles, event histories, or dialogue histories~~.

28. (**Currently Amended**) A method responsive to a user generated natural language speech utterance, comprising:

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receiving, at a speech unit, ~~the user-generated~~ a natural language speech utterance[[;]], wherein the speech unit encodes ~~converting~~ the received ~~user-generated~~ natural language speech utterance into an electronic signal;

recognizing, at a speech recognition engine, ~~identifying~~ at least one of words or phrases in the encoded natural language speech utterance, wherein the speech recognition engine uses ~~a query or a command from the electronic signal using~~ data ~~supplied by~~ received from a plurality of domain agents to recognize the words or phrases;

determining, at a parser, a context for the natural language speech utterance;

selecting, at the parser, at least one of ~~domain agent from among~~ the plurality of domain agents~~, the selected domain agent associated with the identified query or command~~ based on the determined context;

transforming, at the parser, the recognized words or phrases into at least one of a question or a command, the at least one question or command formulated in a grammar that the selected domain agent uses to process the formulated question or command; and

forwarding the ~~identified query~~ formulated question or command to an agent architecture, the agent architecture communicateively coupling ~~selected domain agent, wherein the selected domain agent is an autonomous executable that receives, processes, and responds to the forwarded query or command, the selected domain agent having access to~~ services of ~~associated with~~ each of an agent manager, a system agent, the plurality of domain agents[[;]], and an agent library, wherein ~~receiving a response to the forwarded query or command from~~ the selected domain agent uses the communicatively coupled services to create a response to the formulated question or command[[;]] and format ~~transmitting an electronic message associated with~~ the ~~received~~ response for presentation to the user.

29. (**Currently Amended**) The method according to claim 28, wherein the speech unit includes ~~further comprising coding the electronic signal using at least one of a speech coder,~~ an array microphone that receives the natural language speech utterance, a speech coder that encodes the natural language speech utterance into the electronic signal, and ~~or~~ a filter that

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optimizes a ~~the electronic~~ signal ~~coded using an adaptive lossy audio compression~~ to noise ratio of the encoded natural language speech utterance.

30. (**Previously Presented**) The method according to claim 28, the wherein the selected domain agent includes data for controlling or communicating with at least one of a navigation system, a vehicle monitoring system, a security system, a vehicle control system, or a vehicle media system.

31. (**Previously Presented**) The method according to claim 28, wherein the selected domain agent includes data associated with at least one of driving directions, travel information, restaurant information, vehicle systems information, safety information, or entertainment information.

32. (**Currently Amended**) The method according to claim 28, wherein the communicatively coupled services include at least one remotely located service and the selected domain agent includes data for controlling or communicating with [[a]] the remotely located service.

33. (**Currently Amended**) The method according to claim 32, wherein forwarding the formulated question ~~identified query~~ or command to the ~~selected domain~~ agent architecture includes transmitting a request to the remotely located service.

34. (**Previously Presented**) The method according to claim 33, wherein the remotely located service is associated with a remotely located device.

35. (**Currently Amended**) The method according to claim 33, wherein the ~~transmitted~~ request is transmitted to the remotely located service via a communication network.

36. (**Currently Amended**) The method according to claim 32, wherein the remotely located service includes at least one of a payment service provider, a customer relationship management system, a specialized service, a location service, or an emergency service.

37. (**Currently Amended**) The method according to 33, wherein the request is transmitted to the remotely located service via a wide-area RF transceiver.

38. (**Currently Amended**) The method according to [[28]] 29, wherein ~~further comprising filtering~~ the filter ~~received user generated natural language speech utterance to remove~~ removes background noise to optimize the signal to noise ratio of the encoded natural language speech utterance.

39. (**Currently Amended**) The method according to [[38]] 29, wherein ~~filtering~~ the filter ~~received user generated natural language speech utterance includes employing~~ employs at least one of adaptive echo cancellation or adaptive lossy audio compression to optimize the signal to noise ratio of the encoded natural language speech utterance.

40. (**Cancelled**)

41. (**Currently Amended**) The method according to claim 28, wherein the communicatively coupled services include one or more ~~further comprising retrieving data from a network resource shared by a plurality of devices, the~~ shared network resources ~~resource including at least one of a speech unit, a natural language speech processing system, a transceiver, the plurality of agents, user profiles, event histories, or dialogue histories~~.

42. (**Currently Amended**) The method according to claim 41, wherein the shared network ~~resource is associated with~~ resources include a telematics control unit that interfaces with one or more devices on a vehicle.

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43. (**Currently Amended**) The method according to claim 42, wherein the shared network resources further include at least one resource [[is]] located remotely from the vehicle.

44-56. (**Cancelled**)

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REMARKS

Upon entry of the foregoing Amendment, claims 1-2, 4, 6-8, 10-39 and 41-43 are pending in the application. Claims 1-2, 4, 10-11, 13, 15, 17-18, 22, 24-27, 28-29, 32-33, and 35-43 have been amended. Claims 3, 5, 9, and 44-56 have been cancelled. No claims have been newly added. Applicants believe that this Amendment does not add new matter. In view of the foregoing Amendment and following Remarks, allowance of all the pending claims is requested.

EXAMINER INTERVIEW

Applicants thank Examiner Wozniak for granting Applicants' representative the courtesy of an Examiner Interview on January 16, 2008. During the Examiner interview, Applicants' representative discussed various distinctions between the claimed invention and the references relied upon in the rejections, as set forth below in further detail.

CLAIM OBJECTIONS

The Examiner has objected to claims 36-37 because of alleged informalities. Solely for purposes of expediting prosecution of this application, and without acknowledging the propriety of the alleged basis for the objection, Applicants note that claims 36-37 have been amended as indicated above.

Accordingly, because amended claims 36-37 fully address the objections that the Examiner has raised in the Office Action, Applicants request that the Examiner withdraw this objection to the claims.

NON-STATUTORY DOUBLE PATENTING REJECTION

The Examiner has provisionally rejected claims 1-2, 4, 6-8, 10-39 and 41-43 under the judicially created doctrine of non-statutory obviousness-type double patenting, as allegedly being unpatentable over claims 1-40 of copending U.S. Patent Application Serial No. 10/452,147.

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Applicants will consider filing a terminal disclaimer to overcome this rejection once otherwise patentable subject matter has been determined. Furthermore, Applicant notes that the filing of a terminal disclaimer to obviate a rejection based on non-statutory double patenting does not constitute an admission of the propriety of the rejection. *See Quad Environmental Technologies Corp. v. Union Sanitary District*, 946 F.2d 870 (Fed. Cir. 1991).

REJECTION UNDER 35 U.S.C. § 103

1. CLAIMS 1-2, 4, 6, 17-18, 21-23, AND 27

The Examiner has rejected claims 1-2, 4, 6, 17-18, 21-23, and 27 under 35 U.S.C. § 103 as allegedly being unpatentable over U.S. Patent No. 6.615,172 to Bennett et al. ("Bennett") in view of "A Distributed Architecture for Cooperative Spoken Dialogue Agents with Coherent Dialogue State and History to Lin et al. ("Lin"). This rejection is improper for at least the reason that Bennett and Lin, either alone or in combination, fail to disclose, teach, or suggest each and every feature of the claimed invention.

More particularly, neither Bennett nor Lin, either alone or in combination, disclose, teach, or suggest at least the features of "a speech recognition engine that recognizes at least one of words or phrases in the encoded natural language speech utterance using the data received from the plurality of domain agents," or "an agent architecture that communicatively couples services of each of an agent manager, a system agent, the plurality of domain agents, and an agent library, wherein the selected domain agent uses the communicatively coupled services to create a response to the formulated question or command," as recited in independent claim 1, for example.

The Examiner has acknowledged that "Bennett does not explicitly disclose the use of . . . executable dialog agents associated with different domains." Final Action, pg. 7. The Examiner alleges, however, that "Lin . . . discloses a user interface agent that enables query forwarding to a particular dialog agent for answer retrieval," and further alleges that "each spoken dialog agent (SDA) has access to the same set of Internet-enabled services and . . . can access information services as a result of shared dialogue/state history." Final Action, pgs. 7-8. Applicants note that even if the Examiner has correctly characterized Lin, which Applicants do

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not concede, Lin nonetheless fails to disclose, teach, or suggest the aforementioned features of the claimed invention.

For example, in Figure 2, Lin illustrates a spoken dialogue system partitioned into "a user interface agent, a spoken dialogue agent, and state dependent data." As illustrated in Figure 2, Lin modularizes and partitions the components of the spoken dialogue system into domain-independent procedures and domain-dependent procedures, and clearly characterizes "speech recognition" as a domain-independent procedure. For instance, Lin clearly states that "the **domain-independent** acoustic recognition module (including acoustic models and so on) . . . [is] included in the user interface agent." Lin, Section 2.2 (emphasis added). Figure 2 of Lin clearly illustrates an example of this distinction, where spoken dialogue agents are shown to include a domain-independent graph search and parsing module utilizing domain-dependent data, whereas the speech recognition module is clearly shown as being entirely independent of any given domain. Therefore, for at least these reasons, Lin fails to disclose, teach, or suggest at least the feature of "a speech recognition engine that recognizes at least one of words or phrases in the encoded natural language speech utterance **using the data received from the plurality of domain agents**," as recited in independent claim 1, for example.

In addition, regarding the feature of "an agent architecture that communicatively couples services of each of an agent manager, a system agent, the plurality of domain agents, and an agent library," Lin describes a distinct "distributed architecture for cooperative spoken dialogue agents," which "the user interface agent can access . . . through a domain switching protocol, and carry over the dialogue state and history so as to keep the knowledge persistent and consistent across different domains." Lin, pg. 1, Section 1. However, apart from state-dependent data that each spoken dialogue agent can access, Lin indicates that "the domain knowledge and the dialogue control are handled in each SDA." Lin, pg. 3, Section 2.2. When a spoken dialog agent requires domain knowledge from a "domain agent [that] is different from the current SDA," Lin states that "the processes for domain switching . . . should be executed." Lin, pg. 3, Section 2.2.

Thus, to the extent that Lin describes spoken dialog agents sharing "coupled services to create a response" to an utterance, the shared services do not include those of each of "the

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plurality of domain agents." As such, for at least these reasons, Lin also fails to disclose, teach, or suggest at least the feature of "an agent architecture that communicatively couples services of each of an agent manager, a system agent, the plurality of domain agents, and an agent library, wherein the selected domain agent uses the communicatively coupled services to create a response to the formulated question or command," as recited in independent claim 1, for example.

Accordingly, for at least the foregoing reasons, Bennett and Lin, either alone or in combination, fail to disclose, teach, or suggest each and every feature recited in independent claim 1. The rejection is therefore improper and must be withdrawn.

Dependent claims 2, 4, 6, 17-18, 21-23, and 27 depend from and add features to independent claim 1. Thus, the rejection of these claims is likewise improper and must be withdrawn for at least the same reasons.

Furthermore, in addition to the distinctions discussed above, neither Bennett nor Lin, either alone or in combination, disclose, teach, or suggest at least the feature of "an event manager that sends and receives events to components of the natural language speech processing system to coordinate interaction among the components of the natural language speech processing system," as recited in dependent claim 2, for example. The Examiner identifies the user interface agent of Lin as allegedly corresponding to this feature.

However, as Lin illustrates in Figure 3 and explains in corresponding text, the user interface agent only "serves as the client connected to different task agents," whereas the spoken dialogue agents "handle the dialogue and access to the database server so as to respond to user's requests in their respective domains." Lin, pg. 2, Section 2.2. Additionally, Lin explains that "domain switching is decided **by the facilitator**," and "[w]hen the user's utterance is judged **by the facilitator** to be of a different domain, the currently active SDA should notify the UIA to switch to that domain." Lin, pg. 3, Section 3. As such, Lin does not disclose, teach, or suggest the "event manager" recited in dependent claim 2 because none of the user interface agent, the spoken dialogue agents, or the facilitator "coordinate interaction among the components of the natural language speech processing system." Thus, the rejection of this claim is further improper and must be withdrawn for at least this reason.

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2. CLAIMS 7-8, 10-16, 19-20, 24-26, 28-39, AND 41-43

The Examiner has rejected claims 7-8, 10-16, 19-20, 24-26, 28-39, and 41-43 under 35 U.S.C. § 103 as allegedly being unpatentable. In particular, the Examiner has rejected claims 7-8, 10-12, and 19 over Bennett in view of Lin, and further in view of U.S. Patent No. 6,937,977 to Gerson ("Gerson"), claims 13-16, 28-29, 31-37, and 41 over Bennett in view of Lin, and further in view of U.S. Patent No. 6,185,535 to Hedin et al. ("Hedin"), claim 20 over Bennett in view of Lin, and further in view of U.S. Patent No. 6,420,975 to DeLine et al. ("DeLine"), claims 24-26 over Bennett in view of Lin, and further in view of U.S. Patent No. 6,980,092 to Turnbull et al. ("Turnbull"), and claims 30, 38-39, and 42-43 over Bennett in view of Lin, further in view of Hedin and further in view of Gerson. These rejections are improper for at least the reason that the references relied upon, either alone or in combination, fail to disclose, teach, or suggest each and every feature of the claimed invention.

More particularly, for at least the reasons discussed above, neither Bennett nor Lin, either alone or in combination, disclose, teach, or suggest at least the features of "a speech recognition engine that recognizes at least one of words or phrases in the encoded natural language speech utterance using the data received from the plurality of domain agents," or "an agent architecture that communicatively couples services of each of an agent manager, a system agent, the plurality of domain agents, and an agent library, wherein the selected domain agent uses the communicatively coupled services to create a response to the formulated question or command," as recited in independent claim 1, for example.

Each of Gerson, Hedin, DeLine, and Turnbull fail to cure at least the foregoing deficiencies of Bennett and Lin. Accordingly, for at least the foregoing reasons, the references relied upon, either alone or in combination, fail to disclose, teach, or suggest all of the features recited in independent claim 1.

Independent claim 28 includes features similar to those set forth in independent claim 1. Dependent claims 7-8, 10-16, 19-20, 24-26, and 28-39 depend from and add features to one of independent claims 1 and 28. Thus, the rejections of these claims are improper and must be withdrawn for at least the foregoing reasons.

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CONCLUSION

Having addressed each of the foregoing rejections, it is respectfully submitted that a full and complete response has been made to the outstanding Office Action. As such, the application is in condition for allowance. Notice to that effect is respectfully requested.

If the Examiner believes, for any reason, that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at the number provided.

Date: **April 28, 2008**

Respectfully submitted,

By: _____

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PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number	Filing Date	☒ To be Mailed
10/618,633	07/15/2003	

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY ☒ RATE ($)	SMALL ENTITY ☒ FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =		OR	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =			X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $250 ($125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT 04/28/2008	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE ($)	SMALL ENTITY ADDITIONAL FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	* 39	Minus	** 56	= 0	X $25 =	0	OR	X $ =	
Independent (37 CFR 1.16(h))	* 2	Minus	***3	= 0	X $105 =	0	OR	X $ =	
☐ Application Size Fee (37 CFR 1.16(s))									
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
					TOTAL ADD'L FEE	0	OR	TOTAL ADD'L FEE	

AMENDMENT	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)	OR	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =		OR	X $ =	
Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =		OR	X $ =	
☐ Application Size Fee (37 CFR 1.16(s))									
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
					TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

Legal Instrument Examiner:
/KATRINA HARLING/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Docket Number	Application Number
	090611-0312470	10/618,633
	Applicant(s)	
	Robert A. KENNEWICK *et al.*	
	Filing Date	Group Art Unit
Form PTO-1449	July 15, 2003	2626

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A	5,696,965	12/09/1997	Dedrick	395	610	
	B	5,878,385	03/02/1999	Bralich *et al.*	704	9	
	C	6,415,257	07/02/2002	Junqua *et al.*	704	275	
	D	6,466,654	10/15/2002	Cooper *et al.*	379	88.01	
	E	6,721,706	04/13/2004	Strubbe *et al.*	704	275	
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	I	2005/0021826	01/27/2005	Kumar	709	232	

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translations YES	Translations NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

	J	MAO, Mark Z., "Automatic Training Set Segmentation for Multi-Pass Speech Recognition", Department of Electrical Engineering, Stanford University, CA, copyright 2005, IEEE, pages I-685 to I-688.
	K	VANHOUCKE, Vincent, "Confidence Scoring and Rejection Using Multi-Pass Speech Recognition", Nuance Communications, Menlo Park, CA, [no date], 4 pages.
	L	WENG, Fuliang, *et al.*, "Efficient Lattice Representation and Generation", Speech Technology and Research Laboratory, SRI International, Menlo Park, CA, [no date], 4 pages.

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Electronic Acknowledgement Receipt

EFS ID:	3634616
Application Number:	10618633
International Application Number:	
Confirmation Number:	5659
Title of Invention:	Mobile systems and methods for responding to natural language speech utterance
First Named Inventor/Applicant Name:	Robert A. Kennewick
Customer Number:	909
Filer:	Nidhi Chotani/Susan Trader
Filer Authorized By:	Nidhi Chotani
Attorney Docket Number:	090611-0312470
Receipt Date:	17-JUL-2008
Filing Date:	15-JUL-2003
Time Stamp:	16:01:13
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes) /Message Digest	Multi Part /.zip	Pages (if appl.)
1		0312470_SIDS.pdf	203915 b8cadf61a48861a7f04bc39fd46b21cca5bf28c13	yes	6

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Information Disclosure Statement Letter	1	5
	Information Disclosure Statement (IDS) Filed	6	6

Warnings:					
Information:					
2	NPL Documents	MAO.pdf	87562 1b3ffe999a30b15eea176ac4951c57362d0c3bbb	no	4
Warnings:					
Information:					
3	NPL Documents	VANHOUCKE.pdf	258100 095933ea064f85a3705750030dec1a9690d3ae6d	no	4
Warnings:					
Information:					
4	NPL Documents	WENG.pdf	345795 ab3fae98c6cdea032dd636d4c37094120b0def8c	no	4
Warnings:					
Information:					
		Total Files Size (in bytes):	895372		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS :	Robert A. KENNEWICK *et al.*	CONFIRMATION NO.:	5659
SERIAL NUMBER :	10/618,633	EXAMINER:	James S. WOZNIAK
FILING DATE :	July 15, 2003	ART UNIT:	2626
FOR :	MOBILE SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE		

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicants hereby make of record in the above-identified application the documents listed on the attached Form PTO-1449.

Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated. Where the publication date of a listed document does not provide a month of publication, the

Google Exhibit 1019
Page 00323

year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not an issue.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This Supplemental Information Disclosure Statement is being filed within three months of the filing date of a national application other than a continued prosecution application under 37 C.F.R. §1.53(d), or within three months of the date of entry of the national stage as set forth in 37 C.F.R. §1.491 in an international application, or before the mailing date of a first Office Action on the merits, or before the mailing date of a first Office Action after the filing of a request for continued examination under 37 C.F.R. §1.114. No certification or fee is required. 37 C.F.R. §1.97(b).

Document A was cited in a search report by a foreign patent office in a counterpart foreign application. Submission of an English language version of the search report that indicates the degree of relevance found by the foreign office is provided.

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449.

Respectfully submitted,

PILLSBURY WINTHROP SHAW PITTMAN LLP

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Dated: July 17, 2008

UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/618,633	07/15/2003	Robert A. Kennewick	090611-0312470	5659

909 7590 07/22/2008
PILLSBURY WINTHROP SHAW PITTMAN, LLP
P.O. BOX 10500
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EXAMINER	
WOZNIAK, JAMES S	

ART UNIT	PAPER NUMBER
2626	

MAIL DATE	DELIVERY MODE
07/22/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/618,633	KENNEWICK ET AL.	
	Examiner	Art Unit	
	JAMES S. WOZNIAK	2626	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *28 April 2008*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1,2,4,6-8,10-39 and 41-43* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1,2,4,6-8,10-39 and 41-43* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *15 July 2003* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

Response to Amendment

1. In response to the office action from 11/26/2007, the applicant has submitted a request for continued examination, filed 4/28/2008, amending independent claims 1 and 28, while arguing to traverse the art rejection based on the limitation regarding a speech recognition engine that performs recognition using data received from a plurality of domain agents and the claimed agent architecture *(Amendment, Pages 12-14)*. Applicant's arguments have been fully considered, however the previous rejection is maintained due to the reasons listed below in the response to arguments.

2. In response to amended claims 36-37, the examiner has withdrawn the previous objection directed to minor informalities.

3. As no terminal disclaimer has been filed, the previous Double Patenting rejection is maintained.

Response to Arguments

4. Applicant's arguments have been fully considered but they are not persuasive for the following reasons:

With respect to the independent claims, the applicant argues that the prior art of record fails to teach:

a.) performing speech recognition using data received from a plurality of domain agents because it is alleged that Lin et al *("A Distributed Architecture for Cooperative Spoken Dialogue Agents with Coherent Dialogue State and History," 1999)* teaches a domain independent acoustic recognition module *(Amendment, Page 13)*; and

b.) sharing services of a plurality of domain agents because it is alleged that Lin indicates that domain knowledge and dialog control are handled in each spoken dialog agent (Amendment, Pages 13-14.

In response to argument a.), the examiner points out that Bennett et al *(U.S. Patent: 6,615,172)* teaches an acoustic recognition dictionary that varies based on a current dialog context *(Col. 27, Lines 17-51)*. In Lin, these varying contexts are handled by spoken dialog agents *(SDAs- Fig. 3)*. Thus, the combination of the prior art of record teaches the aforementioned claim limitation. Additionally, Lin teaches that domain or context dependent data from the SDAs is utilized in a graph search portion of a speech recognition process *(Figs. 2 and 5)*. Thus, it should be noted that Lin also ultimately relies upon SDA domain data in performing speech recognition. Thus, this argument has been fully considered, but is not convincing for at least the preceding reasons.

In response to argument b.), the examiner points out that although Lin notes that the individual SDAs handle their own domain data, this data can be passed or shared from agent-to-agent as part of a switching protocol and dialog states/histories *(Sections 2.2-3.1)*. For example, Fig. 3, shows various travel-related SDAs. If, for instance, a Train SDA wanted to determine the

weather for travel conditions, Lin's system could switch to the Train SDA and utilize it's services to pass the desired weather data to the Train SDA (*"cooperation among the spoken dialog agents", Section 3.1; and Fig. 6)*. In this *cooperative* manner, each SDA can utilize the services offered by the other SDAs. Thus, the applicant's arguments have been fully considered, but are not convincing.

With respect to Claim 2, the applicant further argues that Lin fails to teach an event manager that sends and receives events to components of the natural language speech processing system to coordinate interaction among those components because it is alleged that Lin teaches that domain switching is performed by a facilitator and not interaction coordination among the natural language speech processing system components *(Amendment, Page 14)*. In response, the examiner notes that Lin's UIA, which has a facilitator, enables switching and the exchange of information *(i.e., coordination)* among the SDAs *(Sections 2.2 and 3.1)*. The SDAs are part of the natural language processing system and thus, the UIA/facilitator (i.e., event manager) enables coordination among the natural language speech processing system components. It is further noted that Lin teaches SDA domain dependent components utilized in speech recognition and synthesis *(Fig. 2)*, thus, the UIA/facilitator would also coordinate these components. Therefore, the applicant's arguments have been fully considered, but are not convincing.

The remainder of the dependent claims are traversed for reasons similar to the preceding claims *(Amendment, Pages 14-15)*. In regards to such arguments, see the preceding response.

Claim Objections

5. **Claim 27** is objected to because of the following informalities:

In line 3, "the shared network resource" should be changed to –shared network resource--, in order to provide proper antecedent basis for this limitation in the claim.

Appropriate correction is required.

Double Patenting

6. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

7. **Claims 1 and 28,** are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claim 44 of copending Application No. 10/452,147 in view of Lin et al *("A Distributed Architecture for Cooperative Spoken Dialogue Agents with Coherent Dialogue State and History," 1999)*. Although the conflicting claims are not identical, they are not patentably distinct from each other because both applications essentially refer to the same system/method. Although the present application additionally recites an event manager in the independent claims, this element would obvious in view of the teachings of Lin et al. Lin teaches discloses a user interface agent manager that enables query forwarding to a particular dialog agent for answer retrieval *(Sections 2.2- 3.1 and Fig. 3)* for the benefit of handling dialog across multiple subject domains (or applications) efficiently and intelligently *(Lin, Section 1)*.

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 103

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

9. **Claims 1, 2, 4, 6, 13, 15-17, 22-23, 27-28, 31-32, and 41** are rejected under 35 U.S.C. 103(a) as being unpatentable over Bennett et al *(U.S. Patent: 6,615,172)* in view of Lin et al *("A Distributed Architecture for Cooperative Spoken Dialogue Agents with Coherent Dialogue State and History," 1999)*.

With respect to **Claim 1**, Bennett discloses:

A speech unit that receives a natural language speech utterance and encodes the user generated natural language speech utterance into an electronic signal, said user generated natural language speech utterance having at least one of a query and a command *(coding a spoken query, Col. 10, Line 54- Col. 11, Line 17; and Col. 15, Line 53- Col. 16, Line 21)*;

A natural language speech processing system that receives, processes and response to the encoded natural language speech utterance using data received from a domain agent *(natural language processor that retrieves a query from a speech signal and forwards the question to a specific application portion to retrieve an answer, Col. 24, Line 46- Col. 25, Line 67; Col. 27, Lines 17-51; and Col. 29, Line 30- Col. 30, Line 7; and agent, Col. 10, Line 54- Col. 11, Line 17)*, wherein the natural language speech processing system includes:

A speech recognition engine that recognizes at least one of words or phrases in the

encoded natural language speech utterance using the data received from a plurality of domains *(speech recognizer for recognizing query words/phrases that relies on context data from different domains, Col. 7, Lines 17-51)*;

A parser that interprets the recognized words or phrases using the data received from the plurality of domains *(natural language understanding means, Col. 17, Lines 27-36)*, wherein the parses interprets the recognized words or phrases by:

Determining a context for the natural language speech utterance *(natural language understanding means utilizing parsing to determine an application domain based on user speech content and context, Col. 11, Line 59- Col. 12, Line 10; Col. 17, Lines 28-67; and Col. 27, Lines 17-51)*.

Selecting one of the contexts based on the determined contexts *(natural language speech processor that identifies a selects a grammar context, Col. 11, Lines 34-38; Col. 17, Lines 28-67; Col. 27, Lines 17-51; and Col. 29, Line 47- Col. 30, Line 2)*; and

Transforming the recognized words or phrases into at least one of a question or a command, the at least one of said query and said command formulated in a grammar that the selected domain agent uses to process the formulated question or command *(natural language processor uses grammars that provides and generates the available user queries, Col. 11, Lines 34-38; Col. 17, Lines 28-67; and Col. 27, Lines 17-51)*; and

A shared architecture between system *components (Col. 11, Lines 34-38)*.

Although Bennett discloses processing a natural language query, forwarding the query to a specific application portion based on context, method use with multiple application domains *(Col. 29, Line 47-Col. 30, Line 2)*, and answer generation *(Col. 24, Line 46- Col. 25, Line 67;*

Col. 27, Lines 17-51; and Col. 29, Line 30- Col. 30, Line 7), Bennett does not explicitly disclose the use of arbitrating means for selecting and forwarding a query to an executable dialog agents associated with different domains. Lin, however discloses a user interface agent manager that enables query forwarding to a particular dialog agent for answer retrieval *(Sections 2.2- 3.1 and Fig. 3)*. Lin further teaches that each spoken dialogue agent (SDA) has access to the same set of Internet-enabled services and databases and functional system agents *(Fig. 2 and 3)*. Also, each SDA can access information services as a result of a shared dialogue/state history *(Fig. 3)*. In this cooperative case, an SDA can access services of all the SDAs through other SDAs via a switching routine *("sends the dialogue state and history to the new SDA", Section 3.1)*. Lin further teaches a non-acoustic speech recognition graph search portion that relies on domain specific data from the SDAs *(Lexicon, Grammar Rules, and Language Models, Fig. 2; and Fig. 5)*. Finally, Lin teaches an architecture wherein a user interface agent receives responses from the specific SDAs and then transmits them to a user *(Figs. 2-3)*.

Bennett and Lin are analogous art because they are from a similar field of endeavor in information retrieval systems utilizing speech recognition. Thus, it would have been obvious to a person of ordinary skill in the art, at the time of invention, to modify the teachings of Bennett with the interface agent architecture taught by Lin in order to handle dialog across multiple subject domains (or applications) efficiently and intelligently *(Lin, Section 1)*.

With respect to **Claim 2**, Lin further discloses:

The natural language speech processing system further comprises an event manager, which sends and receives events to components of the natural language speech processing system to coordinate interaction between components of the natural language speech processing

system *(user interface agent having a facilitator, Fig. 3 that allows for passing information among other SDAs, Section 3.1)*.

With respect to **Claim 4**, Bennett further discloses:

A text to speech engine that creates an encoded speech message to be annunciated to the user *(text-to-speech engine, Col. 10, Lines 54-67; text-to-sound file creation at a server, Col. 22, Lines 7-17; and answer is compressed, Col. 25, Lines 59-67)*.

With respect to **Claim 6**, Lin further discloses dialog domain agents associated with travel information *(Fig. 3)*.

With respect to **Claim 13**, Lin further discloses:

The communicatively coupled services include at least one remotely located service and the selected domain agent includes data for controlling or communicating with the remotely located service *(remote database and Internet services, which the SDAs are capable of communicating with or controlling, Fig. 3)*.

With respect to **Claim 15**, Bennett further discloses:

The speech unit and the natural language speech processing system each include respective transceivers that communicate via a communication network *(client and server components with receiver/transmitter means for communicating over a network, Fig. 1)*.

With respect to **Claim 16**, Bennett further discloses:

The communication network is a wide area wireless network *(large scale system employing a wireless communication medium, Col. 10, Lines 33-53)*.

With respect to **Claim 17**, Bennett further discloses:

The transceiver is a wide-area RF transceiver *(RF link over a cellular network, Col. 10, Lines 33-53)*.

With respect to **Claim 22**, Bennett further shows:

The speech unit is located remotely from the natural language speech processing system and the transceiver *(Fig. 1)*.

With respect to **Claim 23**, Bennett further discloses a display *(Col. 10, Lines 54-65)*.

With respect to **Claim 27**, Bennett discloses a network for cellular phones *(Col. 10, Lines 33-53)*, while Lin recites a common database of dialog states/histories and network database shared across multiple common agents *(Fig. 3)*.

Claim 28 recites subject matter similar to Claim 1, and thus, is rejected for the same reasons.

Claim 31 contains subject matter similar to claim 6, and thus, is rejected under similar rationale.

Claim 32 contains subject matter similar to claim 13, and thus, is rejected under similar rationale.

Claim 41 contains subject matter similar to claim 27, and thus, is rejected under similar rationale.

10. **Claims 7-8, 10-12, 30, and 38-39** rejected under 35 U.S.C. 103(a) as being unpatentable over Bennett et al in view of Lin et al and further in view of Gerson *(U.S. Patent: 6,937,977)*.

With respect to **Claims 7-8 and 10**, Bennett in view of Lin discloses dialog agents capable of retrieving responses to speech inputs for a number of different applications, as applied

to Claim 1. Bennett in view of Lin does not specifically disclose an application domain related to communicating with a vehicle device in order to enable device control. Gerson, however, discloses a vehicle control server application that recognizes a control command and communicates a command message back to a vehicle device to enable device control *(Col. 6, Line 66-Col. 7, Line 15)*.

Bennett, Lin, and Gerson are analogous art because they are from a similar field of endeavor in speech-controlled systems. Thus, it would have been obvious to a person of ordinary skill in the art, at the time of invention, to modify the teachings of Bennett in view of Lin with the vehicle device control application taught by Gerson in order to increase system applicability by enabling its use for hands-free control of vehicle devices *(Gerson, Col. 6, Line 66- Col. 7, Line 15; and Col. 9, Lines 5-8)*.

With respect to **Claim 11**, Gerson further shows the vehicle control application located remotely from a vehicle *(Fig. 1)*.

With respect to **Claim 12**, Gerson further discloses control of a vehicle entertainment system and other vehicle devices *(Col. 6, Line 66- Col. 7, Line 15)*.

Claim 30 contains subject matter similar to claim 10, and thus, is rejected under similar rationale.

With respect to **Claims 38-39**, Gerson further discloses an echo canceling block capable of eliminating echoes and noise in varying conditions that provides the benefit of preventing an echo from being recognized at a speech recognizer *(Col. 9, Line 24-Col. 10, Line 10)*.

11. **Claim 14 and 33-37** are rejected under 35 U.S.C. 103(a) as being unpatentable over Bennett et al in view of Lin et al and further in view of Hedin et al *(U.S. Patent: 6,185,535)*.

With respect to **Claim 14**, Bennett in view of Lin discloses dialog agents capable of retrieving responses to speech inputs for a number of different applications, as applied to Claim 13. Bennett in view of Lin does not specifically disclose the communication of a recognized command with a remotely located specialized service application, however, Hedin discloses a speech recognizer that sends a recognized speech command message to an external service *(Col. 9, Line 36- Col. 10, Line 24; and Fig. 3, Elements 205, 207 and 307)*.

Bennett, Lin, and Hedin are analogous art because they are from a similar field of endeavor in speech-controlled systems. Thus, it would have been obvious to a person of ordinary skill in the art, at the time of invention, to modify the teachings of Bennett in view of Lin with the remote service communication means taught by Hedin in order to enable access and control of remote server applications *(Hedin, Col. 2, Lines 39-42)*.

With respect to **Claim 33**, Bennett in view of Lin discloses dialog agents capable of retrieving responses to speech inputs for a number of different applications, as applied to Claim 32. Bennett in view of Lin does not specifically disclose the communication of a recognized command/result with a remotely located service, however, Hedin discloses a speech recognizer that sends a recognized speech command message to an external service *(Col. 9, Line 36- Col. 10, Line 24; and Fig. 3, Elements 205, 207 and 307)*.

Bennett, Lin, and Hedin are analogous art because they are from a similar field of endeavor in speech-controlled systems. Thus, it would have been obvious to a person of ordinary skill in the art, at the time of invention, to modify the teachings of Bennett in view of

Lin with the remote service communication means taught by Hedin in order to enable access and control of remote server applications *(Hedin, Col. 2, Lines 39-42)*.

With respect to **Claim 34**, Hedin further discloses the remotely located server device as shown in Fig. 1b.

Claim 35 contains subject matter similar to Claim 15, and thus, is rejected for the same reasons.

Claim 36 contains subject matter similar to Claim 14, and thus, is rejected for the same reasons.

Claim 37 contains subject matter similar to Claim 17, and thus, is rejected for the same reasons.

12. **Claims 18, 20-21, and 29** are rejected under 35 U.S.C. 103(a) as being unpatentable over Bennett et al in view of Lin et al and further in view of DeLine et al *(U.S. Patent: 6,420,975)*.

With respect to **Claim 18 and 20**, Bennett in view of Lin discloses the dialog agent system capable of receiving and encoding a user speech input, as applied to Claim 1. Also, Bennett further discloses:

The speech unit includes a speech coder that encodes the natural language speech utterance into the electronic signal *(speech coding means, Col. 15, Line 53- Col.16, Line 21)*, a microphone that receives the natural language speech utterance *(microphone, Col. 7, Lines 11-14)*, and a filter that optimizes a SNR of the encoded natural language speech utterance *(digital filter used to enhance the input speech signal, Col. 15, Line 27- Col. 16, Line 21)*.

Bennett in view of Lin does not specifically suggest that a speech input from a user is received via a one-dimensional microphone array, however DeLine discloses the use of such an array in a speech-enabled control system *(lined array of microphones, Col. 48, Lines 53-63)*.

Bennett, Lin, and DeLine are analogous art because they are from a similar field of endeavor in speech-controlled systems. Thus, it would have been obvious to a person of ordinary skill in the art, at the time of invention, to modify the teachings of Bennett in view of Lin with the one dimensional microphone array taught by DeLine in order to enhance vocal signal content and eliminate acoustic noise *(DeLine, Col. 48, Lines 53-63)*.

With respect to **Claim 21**, Bennett further discloses:

The speech coder uses an adaptive lossy audio compression *(speech encoding that includes only the least amount of information necessary to adequately and quickly complete speech recognition, Col. 15, Line 543- Col. 16, Line 21)*.

Claim 29 contains subject matter similar to claim 18, and thus, is rejected under similar rationale.

13. **Claims 19 and 38-39** are rejected under 35 U.S.C. 103(a) as being unpatentable over Bennett et al in view of Lin et al and further in view of DeLine et al and yet further in view of Gerson *(U.S. Patent: 6,937,977)*.

With respect to **Claim 19**, Bennett in view of Lin and further in view of DeLine discloses the dialog agent system capable of receiving and encoding a user speech input, as applied to Claim 18. The aforementioned prior art does not explicitly teach adaptive echo cancellation, however, Gerson, in an analogous field of art in speech-controlled systems, teaches an echo

canceling block capable of eliminating echoes and noise in varying conditions that provides the added benefit to the other prior art of preventing an echo from being recognized at a speech recognizer *(Col. 9, Line 24-Col. 10, Line 10)*.

With respect to **Claims 38-39**, Gerson further discloses an echo canceling block capable of eliminating echoes and noise in varying conditions that provides the benefit of preventing an echo from being recognized at a speech recognizer *(Col. 9, Line 24-Col. 10, Line 10)*.

14. **Claims 24-26 and 42-43** are rejected under 35 U.S.C. 103(a) as being unpatentable over Bennett et al in view of Lin et al and further in view of Turnbull et al *(U.S. Patent: 6,980,092)*.

With respect to **Claims 24-25**, Bennett in view of Lin discloses the speech interactive system, as applied to Claim 1. Bennett in view of Lin does not specifically suggest system implementation in a telematics control unit. Turnbull, however, discloses implementation of a speech interactive system embedded in a telematics device *(speech recognition processing, Col. 30, Line 43- Col. 31, Line 2, in an in-vehicle telematics assembly, Col. 29, Lines 56-63; controlling in-vehicle devices in response to recognized voice commands, Col.28, Line 53- Col. 29, Line 36, Col. 30, Line 43- Col. 31, Line 2, and Col. 36, Lines 57-63; and control bus for sending control signals to the various vehicle devices, Fig. 11, Element 102)*.

Bennett, Lin, and Turnbull are analogous art because they are from a similar field of endeavor in speech-controlled systems. Thus, it would have been obvious to a person of ordinary skill in the art, at the time of invention, to modify the teachings of Bennett in view of Lin with the telematics unit taught by Turnbull in order to implement a speech communication and control system that can be readily installed in a vehicle *(Turnbull, Col. 3, Lines 20-22)*.

With respect to **Claim 26**, Turnbull discloses the in-vehicle telematics unit as applied to Claims 24-25.

Claim 42 contains subject matter similar to claim 24, and thus, is rejected under similar rationale.

With respect to **Claim 43**, Turnbull further discloses remote network resources located at a different location than a vehicle *(Col. 35, Lines 48-67)*.

Conclusion

15. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: See PTO-892.

16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to James S. Wozniak whose telephone number is (571) 272-7632. The examiner can normally be reached on M-Th, 7:30-5:00, F, 7:30-4, Off Alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Edouard can be reached at (571) 272-7603. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/James S. Wozniak/
Patent Examiner, Art Unit 2626

Notice of References Cited	Application/Control No. 10/618,633	Applicant(s)/Patent Under Reexamination KENNEWICK ET AL.	
	Examiner JAMES S. WOZNIAK	Art Unit 2626	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-6,944,594	09-2005	Busayapongchai et al.	704/275
*	B	US-2002/0049805	04-2002	Yamada et al.	709/202
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Docket Number	Application Number
	090611-0312470	10/618,633
	Applicant(s)	
	Robert A. KENNEWICK *et al.*	
	Filing Date	Group Art Unit
Form PTO-1449	July 15, 2003	2626

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/J.W./	A	5,696,965	12/09/1997	Dedrick	395	610	
	B	5,878,385	03/02/1999	Bralich *et al.*	704	9	
	C	6,415,257	07/02/2002	Junqua *et al.*	704	275	
	D	6,466,654	10/15/2002	Cooper *et al.*	379	88.01	
	E	6,721,706	04/13/2004	Strubbe *et al.*	704	275	
	F	6,901,366	05/31/2005	Kuhn *et al.*	704	275	
V	G	7,127,400	10/24/2006	Koch	704	270.1	
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/J.W./	I	2005/0021826	01/27/2005	Kumar	709	232	

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translations YES	Translations NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

/J.W./	J	MAO, Mark Z., "Automatic Training Set Segmentation for Multi-Pass Speech Recognition", Department of Electrical Engineering, Stanford University, CA, copyright 2005, IEEE, pages I-685 to I-688.
/J.W./	K	VANHOUCKE, Vincent, "Confidence Scoring and Rejection Using Multi-Pass Speech Recognition", Nuance Communications, Menlo Park, CA, [no date], 4 pages.
/J.W./	L	WENG, Fuliang, *et al.*, "Efficient Lattice Representation and Generation", Speech Technology and Research Laboratory, SRI International, Menlo Park, CA, [no date], 4 pages.

EXAMINER	DATE CONSIDERED
/James Wozniak/	07/18/2008

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	10618633	KENNEWICK ET AL.
	Examiner	**Art Unit**
	JAMES S WOZNIAK	2626

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	06/20/2008								
	1	✓								
	2	✓								
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	4	✓								
	5	-								
	6	✓								
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	8	✓								
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	36	✓								

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	10618633	KENNEWICK ET AL.
	Examiner	Art Unit
	JAMES S WOZNIAK	2626

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	06/20/2008								
	37	✓								
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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	10618633	KENNEWICK ET AL.
	Examiner	Art Unit
	JAMES S WOZNIAK	2626

SEARCHED

Class	Subclass	Date	Examiner
704	270, 270.1, 275, 257	5/16/08	/JW/
709	202	5/16/08	/JW/

SEARCH NOTES

Search Notes	Date	Examiner
EAST Update Search (see attached printout)	5/16/08	/JW/

INTERFERENCE SEARCH

Class	Subclass	Date	Examiner

INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Docket Number	Application Number
	090611-0312470	10/618,633
	Applicant(s)	
	Robert A. KENNEWICK *et al.*	
	Filing Date	Group Art Unit
Form PTO-1449	July 15, 2003	2626

U.S. PATENT DOCUMENTS

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/J.W./	A	7,289,606	10/30/2007	Sibal *et al.*	379	52	

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translations YES	Translations NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

EXAMINER	/James Wozniak/	DATE CONSIDERED	05/16/2008

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Docket Number	Application Number
	090611-0312470	10/618,633
	Applicant(s)	
	Robert A. KENNEWICK *et al.*	
	Filing Date	Group Art Unit
Form PTO-1449	July 15, 2003	2626

U.S. PATENT DOCUMENTS

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	B	6,570,555	05/27/2003	Prevost *et al.*	345	156	
	C	6,735,592	05/11/2004	Neumann *et al.*	707	101	
	D	6,757,718	06/29/2004	Halverson *et al.*	709	218	
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	REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translations YES	Translations NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

/J.W./	G	CHAI *et al.*, "MIND: A Semantics-Based Multimodal Interpretation Framework for Conversational System", Proceedings of the International CLASS Workshop on Natural, Intelligent and Effective Interaction in Multimodal Dialogue Systems, June 2002, pages 37-46.
/J.W./	H	CHEYER *et al.*, "Multimodal Maps: An Agent-Based Approach", International Conference on Cooperative Multimodal Communication (CMC/95), May 24-26, 1995, pages 111-121.

EXAMINER	DATE CONSIDERED
/James Wozniak/	05/16/2008

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	6063	(704/270 704/270.1 704/275 704/257 709/202).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/05/16 10:21
L2	527	((dialogue dialog conversational conversation speech voice domain topic) near5 agent) near7 (shar$3 common access$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/05/16 10:22

5/16/08 10:25:54 AM
C:\Documents and Settings\JWozniak\My Documents\Cases\Kennewick_10_618633\Kennewick_WSP.wsp

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS :	Robert A. KENNEWICK et al.	CONFIRMATION NO.:	5659
SERIAL NUMBER :	10/618,633	EXAMINER:	James S. Wozniak
FILING DATE :	July 15, 2003	ART UNIT:	2626
FOR :	MOBILE SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE		

RESPONSE TO NON-FINAL OFFICE ACTION

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

In response to the Non-Final Office Action mailed **July 22, 2008**, please amend the above-identified application as follows:

Amendments to the Claims begin on page **2** of this paper.

Remarks/Arguments begin on page **12** of this paper.

It is not believed that extensions of time or fees for net addition of claims are required beyond those that may otherwise be provided for in documents accompanying this paper. However, if additional extensions of time are necessary to prevent abandonment of this application, then such extensions of time are hereby petitioned for under 37 C.F.R. § 1.136(a), and any fees required therefore (including fees for net addition of claims) are hereby authorized to be charged to our Deposit Account No. 033975 (**Ref. No. 090611-0312470**).

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AMENDMENT

Please replace all prior versions and listings of claims with the following listing of claims.

LISTING OF CLAIMS:

1. (**Currently Amended**) A mobile system responsive to a user generated natural language speech utterance, comprising:

a speech unit configured to receive ~~that receives~~ a natural language speech utterance from a user and convert ~~encodes~~ the received natural language speech utterance into an electronic signal; and

a natural language speech processing system configured to receive ~~that receives~~, process ~~processes~~, and respond ~~responds~~ to the electronic signal ~~encoded natural language speech utterance~~ using data received from a plurality of domain agents, wherein the natural language speech processing system includes:

a speech recognition engine configured to recognize ~~that recognizes~~ at least one of words or phrases [[in]] from the electronic signal ~~encoded natural language speech utterance~~ using at least the data received from the plurality of domain agents, wherein the data used by the speech recognition engine is dynamically updated based on at least a history of one or more prior dialogs associated with the user;

a parser configured to interpret ~~that interprets~~ the recognized words or phrases, wherein the parser uses at least ~~using~~ the data received from the plurality of domain agents to interpret the recognized words or phrases, wherein the parser is configured to interpret ~~interprets~~ the recognized words or phrases by:

determining a context for the natural language speech utterance;

selecting at least one of the plurality of domain agents based on the determined context; and

transforming the recognized words or phrases into at least one of a question or a command, wherein the at least one question or command is

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formulated in a grammar that the selected domain agent uses to process the formulated question or command; and

an agent architecture ~~that~~ configured to communicatively ~~couples~~ couple services of each of an agent manager, a system agent, the plurality of domain agents, and an agent library, wherein the selected domain agent is configured to use ~~uses~~ the communicatively coupled services to create a response to the formulated question or command and format the response for presentation to the user.

2. (**Currently Amended**) The mobile system according to claim 1, wherein the natural language speech processing system further includes an event manager configured to send ~~that sends~~ and ~~receives~~ receive events to components of the natural language speech processing system to coordinate interaction among the components of the natural language speech processing system, wherein the event manager includes a multi-threaded environment configured to enable the natural language speech processing system to provide real-time responses to a plurality of questions or commands across a plurality of user sessions.

3. (**Cancelled**)

4. (**Currently Amended**) The mobile system according to claim 1, wherein the response includes a text string and the natural language speech processing system further includes a text to speech engine configured to create ~~that creates~~ an encoded speech message to be annunciated to the user.

5. (**Cancelled**)

6. (**Previously Presented**) The mobile system according to claim 1, wherein the selected domain agent includes data associated with at least one of driving directions, travel information, restaurant information, vehicle systems information, safety information, or entertainment information.

7. (**Previously Presented**) The mobile system according to claim 1, wherein the selected domain agent includes data for communicating with one or more devices.

8. (**Previously Presented**) The mobile system according to claim 7, wherein the data for communicating with the one or more devices includes data for controlling the one or more devices.

9. (**Cancelled**)

10. (**Previously Presented**) The mobile system according to claim 1, wherein at least one of the one or more devices is associated with a vehicle.

11. (**Previously Presented**) The mobile system according to claim 10, wherein at least one of the speech unit or the natural language speech processing system is located remotely from the vehicle.

12. (**Previously Presented**) The mobile system according to claim 10, wherein the device associated with the vehicle is at least one of a navigation system, a vehicle monitoring system, a security system, a vehicle control system, or a vehicle media system.

13. (**Previously Presented**) The mobile system according to claim 1, wherein the communicatively coupled services include at least one remotely located service and the selected domain agent includes data for controlling or communicating with the remotely located service.

14. (**Previously Presented**) The mobile system according to claim 13, wherein the remotely located service includes at least one of a payment service provider, a customer relationship management system, a specialized service, a location service, or an emergency service.

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15. (**Currently Amended**) The mobile system according to claim 13, wherein the speech unit and the natural language speech processing system each include respective transceivers ~~that~~ configured to communicate via a communication network.

16. (**Original**) The mobile system according to claim 15, wherein the communication network is a wide area wireless network.

17. (**Previously Presented**) The mobile system according to claim 15, wherein the transceiver is a wide-area RF transceiver.

18. (**Currently Amended**) The mobile system according to claim 1, wherein the speech unit includes a speech coder configured to convert ~~that encodes~~ the natural language speech utterance into the electronic signal, an array microphone configured to receive ~~that receives~~ the natural language speech utterance, and a filter configured to optimize ~~that optimizes~~ a signal to noise ratio of the ~~encoded natural language speech utterance~~ electronic signal.

19. (**Currently Amended**) The mobile system according to claim 18, wherein the filter is configured to employ ~~employs~~ adaptive echo cancellation to optimize the signal to noise ratio of the electronic signal.

20. (**Original**) The mobile system according to claim 18, wherein the array microphone is at least a one-dimensional array.

21. (**Currently Amended**) The mobile system according to claim 18, wherein the speech coder is configure to use ~~uses~~ an adaptive lossy audio compression to convert the natural language utterance into the electronic signal.

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22. (**Previously Presented**) The mobile system according to claim 1, wherein the speech unit is located remotely from the natural language speech processing system.

23. (**Previously Presented**) The mobile system according to claim 1, further comprising at least one of a display or a keypad.

24. (**Currently Amended**) The mobile system according to claim 1, further comprising a telematics control unit configured to interface ~~that interfaces~~ with one or more devices on a vehicle.

25. (**Previously Presented**) The mobile system according to claim 24, wherein at least one of the speech unit or the natural language speech processing system is embedded in the telematics control unit.

26. (**Previously Presented**) The mobile system according to claim 1, wherein at least one of the speech unit or the natural language speech processing system is embedded in at least one of a vehicle, a handheld device, a fixed computer, or a mobile computer device.

27. (**Currently Amended**) The mobile system according to claim 1, wherein the communicatively coupled services include at least one ~~the~~ shared network resource.

28. (**Currently Amended**) A method responsive to a user generated natural language speech utterance, comprising:

receiving, at a speech unit, a natural language speech utterance from a user, wherein the speech unit is configured to convert ~~encodes~~ the received natural language speech utterance into an electronic signal;

recognizing, at a speech recognition engine, at least one of words or phrases [[in]] from the electronic signal ~~encoded natural language speech utterance~~, wherein the speech recognition engine is configured to use at least ~~uses~~ data received from a plurality of domain

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agents to recognize the words or phrases, wherein the data used by the speech recognition engine is dynamically updated based on at least a history of one or more prior dialogs associated with the user;

determining, at a parser, a context for the natural language speech utterance;

selecting, at the parser, at least one of the plurality of domain agents based on the determined context;

transforming, at the parser, the recognized words or phrases into at least one of a question or a command, wherein the at least one question or command is formulated in a grammar that the selected domain agent uses to process the formulated question or command; and

forwarding the formulated question or command to an agent architecture, wherein the agent architecture is configured to communicatively couple ~~communicateively coupling~~ services of each of an agent manager, a system agent, the plurality of domain agents, and an agent library, wherein the selected domain agent is configured to use ~~uses~~ the communicatively coupled services to create a response to the formulated question or command and format the response for presentation to the user.

29. (**Currently Amended**) The method according to claim 28, wherein the speech unit includes an array microphone configured to receive ~~that receives~~ the natural language speech utterance, a speech coder configured to convert ~~that encodes~~ the natural language speech utterance into the electronic signal, and a filter configured to optimize ~~that optimizes~~ a signal to noise ratio of the ~~encoded natural language speech utterance~~ electronic signal.

30. (**Previously Presented**) The method according to claim 28, the wherein the selected domain agent includes data for controlling or communicating with at least one of a navigation system, a vehicle monitoring system, a security system, a vehicle control system, or a vehicle media system.

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31. (**Previously Presented**) The method according to claim 28, wherein the selected domain agent includes data associated with at least one of driving directions, travel information, restaurant information, vehicle systems information, safety information, or entertainment information.

32. (**Previously Presented**) The method according to claim 28, wherein the communicatively coupled services include at least one remotely located service and the selected domain agent includes data for controlling or communicating with the remotely located service.

33. (**Previously Presented**) The method according to claim 32, wherein forwarding the formulated question or command to the agent architecture includes transmitting a request to the remotely located service.

34. (**Previously Presented**) The method according to claim 33, wherein the remotely located service is associated with a remotely located device.

35. (**Previously Presented**) The method according to claim 33, wherein the request is transmitted to the remotely located service via a communication network.

36. (**Previously Presented**) The method according to claim 32, wherein the remotely located service includes at least one of a payment service provider, a customer relationship management system, a specialized service, a location service, or an emergency service.

37. (**Previously Presented**) The method according to 33, wherein the request is transmitted to the remotely located service via a wide-area RF transceiver.

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38. (**Currently Amended**) The method according to 29, wherein the filter is configured to remove ~~removes~~ background noise from the electronic signal to optimize the signal to noise ratio of the ~~encoded natural language speech utterance~~ electronic signal.

39. (**Currently Amended**) The method according to 29, wherein the filter is configured to employ ~~employs~~ at least one of adaptive echo cancellation or adaptive lossy audio compression to optimize the signal to noise ratio of the ~~encoded natural language speech utterance~~ electronic signal.

40. (**Cancelled**)

41. (**Previously Presented**) The method according to claim 28, wherein the communicatively coupled services include one or more shared network resources.

42. (**Previously Presented**) The method according to claim 41, wherein the shared network resources include a telematics control unit that interfaces with one or more devices on a vehicle.

43. (**Previously Presented**) The method according to claim 42, wherein the shared network resources further include at least one resource located remotely from the vehicle.

44-56. (**Cancelled**)

57. (**New**) The mobile system according to claim 1, wherein the agent manager is configured to:

load and initialize the system agent and the plurality of domain agents when the natural language speech processing system boots-up;

unload the system agent and the plurality of domain agents when the natural language speech processing system shuts-down;

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perform license management for the plurality of domain agents and content stored in one or more databases; and

search a network to find a source for a suitable agent if the question or command requires an agent not currently loaded on the natural language speech processing system.

58. (**New**) The mobile system according to claim 1, wherein the agent library includes one or more utilities for commonly used functions in the natural language speech processing system, wherein the commonly used functions include at least one of text and string handling, network communications, database lookup and management, fuzzy and probabilistic evaluation, or text to speech formatting.

59. (**New**) The mobile system according to claim 58, wherein the system agent is configured to:

provide default functionality and foundation services that can be used by each of the plurality of domain agents;

use the utilities of the agent library for the commonly used functions; and

manage one or more criteria handlers used to determine the context for the natural language speech utterance, wherein the one or more criteria handlers provide context sensitive procedures for extracting information from the at least one question or command.

60. (**New**) The mobile system according to claim 1, wherein the speech recognition engine is configured to:

determine an identity of the user based on unique voice characteristics of the user; and

tag the recognized words or phrases with the identity of the user to associate the utterance with the user and a dialog in the natural language speech processing system.

61. (**New**) The mobile system according to claim 1, wherein the data used by the speech recognition engine is dynamically updated based on one or more dynamic fuzzy set possibilities or prior probabilities.

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62. (**New**) The mobile system according to claim 2, wherein the multi-threaded environment of the event manager is configured to further enable the natural language speech processing system to provide real-time responses to the plurality of questions or commands using a plurality of the domain agents.

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REMARKS

Upon entry of the foregoing Amendment, claims 1-2, 4, 6-8, 10-39, 41-43, and 57-62 are pending in the application. Claims 1-2, 4, 15, 18-19, 21, 24, 27-29, and 38-39 have been amended. No claims have been cancelled. Claims 57-62 have been newly added. Applicants believe that this Amendment does not add new matter. In view of the foregoing Amendment and the following Remarks, allowance of all the pending claims is requested.

EXAMINER INTERVIEW

Applicants thank Examiner Wozniak for granting Applicants' representative the courtesy of an Examiner Interview on September 30, 2008. During the Examiner interview, Applicants' representative and the Examiner agreed upon various distinctions between the claimed invention and the references relied upon in the rejections, as set forth in further detail below.

CLAIM OBJECTIONS

The Examiner has objected to claim 27 because of alleged informalities. Solely for purposes of expediting prosecution of this application, and without acknowledging the propriety of the alleged basis for the objection, Applicants note that claim 27 has been amended as indicated above. Accordingly, for at least the reason that the amendment to claim 27 fully addresses the objection that the Examiner has raised, Applicants request that the Examiner withdraw this objection to the claims.

NON-STATUTORY DOUBLE PATENTING REJECTION

The Examiner has provisionally rejected claims 1 and 28 under the judicially created doctrine of non-statutory obviousness-type double patenting, as allegedly being unpatentable over claim 44 of co-pending U.S. Patent Application Serial No. 10/452,147, which issued as U.S. Patent No. 7,398,209 on July 8, 2008.

Applicants will consider filing a terminal disclaimer to overcome this rejection once otherwise patentable subject matter has been determined. Furthermore, Applicants note that the filing of a terminal disclaimer to obviate a rejection based on non-statutory double

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patenting does not constitute an admission of the propriety of the rejection. *See Quad Environmental Technologies Corp. v. Union Sanitary District*, 946 F.2d 870 (Fed. Cir. 1991).

REJECTION UNDER 35 U.S.C. § 103

1. CLAIMS 1-2, 4, 6, 13, 15-17, 22-23, 27-28, 31-32, AND 41

The Examiner has rejected claims 1-2, 4, 6, 13, 15-17, 22-23, 27-28, 31-32, and 41 under 35 U.S.C. § 103 as allegedly being unpatentable over U.S. Patent No. 6,615,172 to Bennett et al. ("Bennett") in view of "A Distributed Architecture for Cooperative Spoken Dialogue Agents with Coherent Dialogue State and History to Lin et al. ("Lin"). This rejection is improper for at least the reason that Bennett and Lin, either alone or in combination, fail to disclose, teach, or suggest each and every feature of the claimed invention.

More particularly, neither Bennett nor Lin, either alone or in combination, disclose, teach, or suggest at least the feature of "a speech recognition engine configured to recognize at least one of words or phrases from the electronic signal using at least the data received from the plurality of domain agents, wherein the data used by the speech recognition engine is dynamically updated based on at least a history of one or more prior dialogs associated with the user," as recited in independent claim 1, for example.

The Examiner alleges that Bennett discloses a "speech recognizer for recognizing query words/phrases that relies on context data from different domains." The Examiner further alleges that Bennett "teaches an acoustic recognition dictionary that varies based on a current dialog context," and that Lin teaches "these varying contexts are handled by spoken dialog agents." Thus, the Examiner concludes by alleging that "the combination of the prior art of record teaches the aforementioned claim limitation."

The Examiner's combination of the alleged teachings of Bennett and Lin is improper for at least the reason that Lin teaches away from the claimed invention and specifically emphasizes the importance of employing a distributed model to partition domain-independent procedures from domain-dependent procedures. For example, in Section 2.2, Lin describes "the potential problems of the centralized model," which form the basis for Lin's description of a "modularized and partitioned model" in which "each functional component should be

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modularized and partitioned into the domain-independent procedure and the domain-dependent data." In this context, Lin notes that "acoustic recognition" is a domain-independent procedure, which is specifically separated from procedures that use domain-dependent data.

Thus, even if the Examiner correctly characterized Bennett as varying an acoustic recognition dictionary based on context data from different domains or a current dialog context (which Applicants do not concede), a person having ordinary skill in the art would recognize that Lin teaches away from using data "received from the plurality of domain agents" in a speech recognition process, as Lin specifically disavows the use of dialogue state information and/or domain knowledge in the speech recognition procedure (e.g., "to reduce the network bandwidth requirement"). For example, Figure 2 of Lin clearly illustrates that state dependent data, including dialogue state and dialogue history information, is partitioned and maintained separately from the speech recognition procedure, such that dialogue state and history information is not available during speech recognition.

The Examiner's further reliance on Lin's description of the "graph search portion of a speech recognition process" fails to address the foregoing deficiencies of the reference because the claimed invention distinctly recites "a speech recognition engine configured to recognize at least one of words or phrases" and "a parser configured to interpret the recognized words or phrases." At best, the graph search and parsing module described in Lin could broadly be characterized as function related to that of the claimed "parser," not to the claimed "speech recognition engine." Thus, Lin's description of a graph search and parsing procedure cannot be properly relied upon to allegedly disclose, teach, or suggest features relating to the claimed "speech recognition engine."

Moreover, assuming *arguendo* that the Examiner has properly combined the teachings of Bennett and Lin, and further assuming that the Examiner correctly characterized Bennett as varying an acoustic recognition dictionary based on context data from different domains or a current dialog (neither of which Applicants concede), the alleged teachings of Bennett nonetheless fail to disclose, teach, or suggest that "the data used by the speech recognition

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engine is dynamically updated based on at least a history of one or more prior dialogs associated with the user," as recited in independent claim 1, for example.

In particular, Bennett describes the data used by the speech recognition engine in the section entitled "Dictionary Preparation & Grammar Files" in columns 27-28 of Bennett. In these passages, Bennett indicates that "specific grammars are dynamically loaded or actively configured as the ***current*** grammar according to the user's context," but further states that the grammars used in the speech recognition are discarded once recognition of the current user utterance has completed. For instance, Bennett provides that "[o]nce the user's speech is recognized, . . . the speech engine is un-initialized," wherein un-initialization includes deleting all of the objects created when the speech recognition engine was initialized, and further clearing all memory allocated when the speech recognition engine was initialized.

Thus, because Bennett flushes the data used by the speech recognition engine when recognition for a current utterance is complete, Bennett does not disclose, teach, or suggest at least the feature of "wherein the data used by the speech recognition engine is dynamically updated based on at least a history of one or more prior dialogs associated with the user," as recited in independent claim 1, for example. Lin fails to cure this deficiency of Bennett for at least the reasons discussed above, wherein Lin specifically describes a system that partitions dialogue history and dialogue state information from the speech recognition procedure.

Therefore, for at least these reasons, Bennett and Lin, either alone or in combination, fail to disclose, teach, or suggest at least the feature of "a speech recognition engine configured to recognize at least one of words or phrases from the electronic signal using at least the data received from the plurality of domain agents, wherein the data used by the speech recognition engine is dynamically updated based on at least a dialog history associated with the user," as recited in independent claim 1, for example. The rejection is therefore improper and should be withdrawn.

In addition to the reasons given above, neither Bennett nor Lin, either alone or in combination, disclose, teach, or suggest at least the feature of "an agent architecture configured to communicatively couple services of each of an agent manager, a system agent, the plurality of domain agents, and an agent library, wherein the selected domain agent is

configured to use the communicatively coupled services to create a response to the formulated question or command," as recited in independent claim 1, for example. The Examiner alleges that Bennett discloses a "shared architecture between system components," and that "Lin teaches an architecture wherein a user interface agent receives responses from the specific [spoken dialogue agents] and then transmits them to a user."

Even assuming *arguendo* that the Examiner has correctly characterized both Bennett and Lin (which Applicants do not concede), the rejection is facially improper because the agent architecture recited in independent claim 1 includes specific components that the Examiner has not identified in either Bennett or Lin. For example, the Examiner alleges that "Lin notes that the individual [spoken dialogue agents] handle their own domain data," thus alleging that Lin's system describes cooperative processing in which "each SDA can utilize the services offered by the other SDAs." The Examiner's reliance on the agent society of Lin is deficient, however, as Lin does not disclose, teach, or suggest that the agent society is configured to communicatively couple the services of each of an "agent manager, a system agent, the plurality of domain agents, and an agent library," nor has the Examiner even alleged that Lin discloses, teaches, or suggests an agent architecture that includes such a combination of components.

Thus, even if Lin does describe an agent society in which each SDA has access to the same set of network-enabled services and databases, the claimed "agent architecture" specifically recites various further components, which Lin does not disclose, teach, or suggest. For example, as illustrated in Figure 3 of Lin, the agent society described in Lin includes a user interface agent, one or more SDAs, a facilitator, dialogue state and history, and one or more databases accessible over the Internet. Even if the SDAs in Lin were to be considered analogous to the claimed "plurality of domain agents," Lin does not disclose, teach, or suggest that the agent society further includes the other recited components of the agent architecture, including at least an "agent manager, a system agent, . . . and an agent library." Thus, to the extent that Lin even describes agents that share "coupled services to create a response," Lin does not disclose, teach, or suggest that the shared services include "services of each of an agent manager, a system agent, the plurality of domain agents, and an agent library."

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As such, for at least the foregoing reasons, Bennett and Lin, either alone or in combination, also fail to disclose, teach, or suggest at least the feature of "an agent architecture configured to communicatively couple services of each of an agent manager, a system agent, the plurality of domain agents, and an agent library, wherein the selected domain agent is configured to use the communicatively coupled services to create a response to the formulated question or command," as recited in independent claim 1, for example. The rejection is therefore further improper and should be withdrawn for at least this reason.

Independent claim 28 includes features similar to those set forth in independent claim 1. Dependent claims 2, 4, 6, 13, 15-17, 22-23, 27, 31-32, and 41 depend from and add features to one of independent claims 1 and 28. Thus, the rejection of these claims is likewise improper and must be withdrawn for at least the same reasons.

2. CLAIM 2

In addition to the above-discussed distinctions regarding independent claim 1, neither Bennett nor Lin, either alone or in combination, disclose, teach, or suggest at least the feature of "an event manager configured to send and receive events to components of the natural language speech processing system to coordinate interaction among the components of the natural language speech processing system, wherein the event manager includes a multi-threaded environment configured to enable the natural language speech processing system to provide real-time responses to a plurality of questions or commands across a plurality of user sessions," as recited in claim 2, for example. The Examiner identifies the user interface agent of Lin as allegedly corresponding to the recited "event manager" feature.

However, as illustrated in Figure 3 of Lin and as explained in the corresponding text, the user interface agent only "serves as the client connected to different task agents," whereas the spoken dialogue agents "handle the dialogue and access to the database server so as to respond to user's requests in their respective domains." Lin, Section 2.2. Additionally, Lin explains that "domain switching is decided by the facilitator," and that "the currently active SDA should notify the UIA to switch to that domain" when the facilitator judges the current utterance to be of a different domain. Lin, Section 3. Thus, Lin describes different components

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for handling interaction with the SDAs, namely the user interface agent and facilitator, whereas the claimed invention recites a single component, the "event manager," as coordinating interaction among the components of the system. Furthermore, because the facilitator in Lin plays a significant role in handling the domain switching protocol, the Examiner has taken an inconsistent position in identifying the user interface agent as allegedly corresponding to the claimed "event manager."

Furthermore, although Lin describes a system that can support multiple different domains "to maintain consistent dialogue across concurrent topics," Lin does not disclose, teach, or suggest that the system includes "a multi-threaded environment configured to enable the natural language speech processing system to provide real-time responses to a plurality of questions or commands across a plurality of user sessions." Rather, Lin describes a system in which only one domain can be active at any given time, with concurrent domains only being supported through a domain switching protocol that transfers dialogue state and history information. *See* Lin, Section 3. Thus, the system described in Lin would not be able to "provide ***real-time responses*** to a plurality of questions or commands across a plurality of user sessions." Instead, because Lin can only support multiple concurrent sessions using the domain switching protocol, Lin cannot provide real-time responses across all of the sessions because "the dialogue state and history is no longer stored in the SDA after it is disconnected." Lin, Section 3.1. Bennett fails to cure at least this deficiency of Lin.

Therefore, for at least the reasons given above, Bennett and Lin, either alone or in combination, fail to disclose, teach, or suggest at least the feature of "an event manager configured to send and receive events to components of the natural language speech processing system to coordinate interaction among the components of the natural language speech processing system, wherein the event manager includes a multi-threaded environment configured to enable the natural language speech processing system to provide real-time responses to a plurality of questions or commands across a plurality of user sessions," as recited in claim 2, for example. The rejection is therefore improper and should be withdrawn.

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3. CLAIMS 7-8, 10-12, 14, 18-21, 24-26, 29-30, 33-39, AND 42-43

The Examiner has also rejected each of claims 7-8, 10-12, 14, 18-21, 24-26, 29-30, 33-39 and 42-43 under 35 U.S.C. § 103 as allegedly being unpatentable over the combination of Bennett and Lin, and further in view of one or more additional references. In particular, the Examiner has rejected (1) claims 7-8, 10-12, 30, and 38-39 over Bennett in view of Lin, and further in view of U.S. Patent No. 6,937,977 to Gerson ("Gerson"), (2) claims 14 and 33-37 over Bennett in view of Lin, and further in view of U.S. Patent No. 6,185,535 to Hedin et al. ("Hedin"), (3) claims 18, 20-21, and 29 over Bennett in view of Lin, and further in view of U.S. Patent No. 6,420,975 to DeLine et al. ("DeLine"), (4) claims 19 and 38-39 over Bennett in view of Lin and further in view of DeLine and yet further in view of Gerson, and (5) claims 24-26 and 42-43 over Bennett in view of Lin and further in view of U.S. Patent No. 6,980,092 to Turnbull et al. ("Turnbull"). Each of these rejections are improper for at least the reason that the references relied upon, either alone or in combination, fail to disclose, teach, or suggest each and every feature of the claimed invention.

More particularly, for at least the reasons discussed above, neither Bennett nor Lin, either alone or in combination, disclose, teach, or suggest at least the features of "a speech recognition engine configured to recognize at least one of words or phrases from the electronic signal using at least the data received from the plurality of domain agents, wherein the data used by the speech recognition engine is dynamically updated based on at least a history of one or more prior dialogs associated with the user," as recited in independent claim 1, for example.

Moreover, for at least the further reasons discussed above, neither Bennett nor Lin, either alone or in combination, disclose, teach, or suggest at least the features of "an agent architecture configured to communicatively couple services of each of an agent manager, a system agent, the plurality of domain agents, and an agent library, wherein the selected domain agent is configured to use the communicatively coupled services to create a response to the formulated question or command," as recited in independent claim 1, for example.

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Each of Gerson, Hedin, DeLine, and Turnbull fail to cure at least the foregoing deficiencies of the combination of Bennett and Lin. Accordingly, for at least the foregoing reasons, the references relied upon, either alone or in combination, fail to disclose, teach, or suggest each and every feature recited in independent claim 1.

Independent claim 28 includes features similar to those set forth in independent claim 1. Dependent claims 7-8, 10-12, 14, 18-21, 24-26, 29-30, 33-39, and 42-43 depend from and add features to one of independent claims 1 and 28. Thus, the rejections of these claims are improper and should be withdrawn for at least the foregoing reasons.

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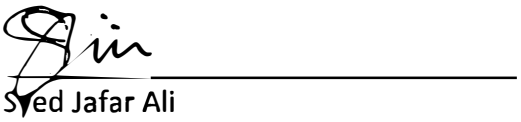
CONCLUSION

Having addressed each of the foregoing rejections, it is respectfully submitted that a full and complete response has been made to the outstanding Office Action. As such, the application is in condition for allowance. Notice to that effect is respectfully requested.

If the Examiner believes, for any reason, that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at the number provided.

Date: **December 16, 2008**

Respectfully submitted,

By: 

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS :	Robert A. KENNEWICK *et al.*	CONFIRMATION NO.:	5659
SERIAL NUMBER :	10/618,633	EXAMINER:	James S. Wozniak
FILING DATE :	July 15, 2003	ART UNIT:	2626
FOR :	MOBILE SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE		

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicants hereby make of record in the above-identified application the documents listed on the attached Form PTO-1449.

Applicants have listed a publication date on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication date should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This Supplemental Information Disclosure Statement is being filed more than three months after the filing date of a national application other than a continued prosecution application under 37 C.F.R. §1.53(d), or more than three months after the date of entry of the national stage as set forth in 37 C.F.R. §1.491 in an international application, and after the mailing date of the first Office Action on the merits, but before the mailing date of any of a Final Action under 37 C.F.R. §1.113, a Notice of Allowance under 37 C.F.R. §1.311, or an action that otherwise closes prosecution in the application. 37 C.F.R. §1.97(c).

Please charge the $180.00 fee [37 C.F.R. §1.17(p)] to Deposit Account No. 03-3975. In addition, please charge any fee deficiencies, or credit any overpayment, to Deposit Account No. 03-3975 as needed to ensure consideration of the Supplemental Information Disclosure Statement.

Documents A-C, G, K, and O-S were cited in search reports by a foreign patent office in counterpart foreign applications. Submission of an English language version of each search report that indicates the degree of relevance found by the foreign office is provided.

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449.

Respectfully submitted,

PILLSBURY WINTHROP SHAW PITTMAN LLP

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Dated: December 16, 2008

401033228v1

INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Docket Number	Application Number
	090611-0312470	10/618,633
	Applicant(s)	
	Robert A. KENNEWICK *et al.*	
	Filing Date	Group Art Unit
Form PTO-1449	July 15, 2003	2626

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A	5,274,560	12/28/1993	LaRue	364	444	
	B	5,377,350	12/27/1994	Skinner	395	600	
	C	5,902,347	05/11/1999	Backman *et al.*	701	200	
	D	6,195,634	02/27/2001	Dudemaine *et al.*	704	231	
	E	6,513,006	01/28/2003	Howard *et al.*	704	257	
	F	6,574,597	06/03/2003	Mohri *et al.*	704	251	
	G	6,598,018	07/22/2003	Junqua	704	251	
	H	6,631,346	10/07/2003	Karaorman *et al.*	704	9	
	I	6,643,620	11/04/2003	Contolini *et al.*	704	270	
	J	6,795,808	09/21/2004	Strubbe *et al.*	704	275	
	K	7,376,645	05/20/2008	Bernard	707	3	
	L	7,398,209	07/08/2008	Kennewick *et al.*	704	255	
	M	7,424,431	09/09/2008	Greene *et al.*	704	270	
	N	2001/0041980	11/15/2001	Howard *et al.*	704	270	
	O	2004/0025115	02/05/2004	Sienel *et al.*	715	513	
	P	2004/0166832	08/26/2004	Portman *et al.*	455	412.1	
	Q	2004/0199375	10/07/2004	Ehsani *et al.*	704	4	
	R	2005/0021334	01/27/2005	Iwahashi	704	240	
	S	2007/0050191	03/01/2007	Weider *et al.*	704	275	

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translations YES	Translations NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

	T	EL MELIANI *et al.*, "A Syllabic-Filler-Based Continuous Speech Recognizer for Unlimited Vocabulary", Canadian Conference on Electrical and Computer Engineering, Volume 2, September 5-8, 1995, pages 1007-1010.

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

PTO/SB/22 (10-08)
Approved for use through 10/31/2008. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARMENT OF COMMERCE
Under the paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless if displays a valid OMB control number.

PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a) **FY 2009** *(Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).)*	Docket Number (Optional) 090611-0312470
Application Number 10/618,633	Filed July 15, 2003
For MOBILE SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE	
Art Unit 2626	Examiner James S. Wozniak

This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above identified application.

The requested extension and fee are as follows (check time period desired and enter the appropriate fee below):

		Fee	Small Entity Fee	
☐	One month (37 CFR 1.17(a)(1))	$130	$65	$
☒	Two months (37 CFR 1.17(a)(2))	$490	$245	$ 245.00
☐	Three months (37 CFR 1.17(a)(3))	$1110	$555	$
☐	Four months (37 CFR 1.17(a)(4))	$1730	$865	$
☐	Five months (37 CFR 1.17(a)(5))	$2350	$1175	$

☒ Applicant claims small entity status. See 37 CFR 1.27.

☐ A check in the amount of the fee is enclosed.

☐ Payment by credit card. Form PTO-2038 is attached.

☐ The Director has already been authorized to charge fees in this application to a Deposit Account.

☒ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number 033975.

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

I am the

☐ applicant/inventor.

☐ assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed (Form PTO/SB/96).

☒ attorney or agent of record. Registration Number 58780

☐ attorney or agent under 37 CFR 1.34.
Registration number if acting under 37 CFR 1.34 _____

Signature — December 16, 2008 (Date)

Syed Jafar Ali (Typed or printed name) — (703) 770-7540 (Telephone Number)

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

☒ Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.136(a). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Electronic Patent Application Fee Transmittal

Application Number:	10618633
Filing Date:	15-Jul-2003
Title of Invention:	Mobile systems and methods for responding to natural language speech utterance
First Named Inventor/Applicant Name:	Robert A. Kennewick
Filer:	Syed Jafar Ali/Kathy Oliver
Attorney Docket Number:	090611-0312470

Filed as Small Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Extension - 2 months with $0 paid	2252	1	245	245

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
Submission- Information Disclosure Stmt	1806	1	180	180
		Total in USD ($)		**425**

Electronic Acknowledgement Receipt

EFS ID:	4463118
Application Number:	10618633
International Application Number:	
Confirmation Number:	5659
Title of Invention:	Mobile systems and methods for responding to natural language speech utterance
First Named Inventor/Applicant Name:	Robert A. Kennewick
Customer Number:	00909
Filer:	Syed Jafar Ali/Kathy Oliver
Filer Authorized By:	Syed Jafar Ali
Attorney Docket Number:	090611-0312470
Receipt Date:	16-DEC-2008
Filing Date:	15-JUL-2003
Time Stamp:	13:18:32
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$425
RAM confirmation Number	8635
Deposit Account	033975
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		0312470Rsp.pdf	1278645 ec19c040af6a9e2752bcc3eb5f560df3325941be	yes	32

Multipart Description/PDF files in .zip description

Document Description	Start	End
Amendment/Req. Reconsideration-After Non-Final Reject	1	1
Claims	2	11
Applicant Arguments/Remarks Made in an Amendment	12	21
Information Disclosure Statement Letter	22	30
Information Disclosure Statement (IDS) Filed (SB/08)	31	31
Extension of Time	32	32

Warnings:

Information:

2	NPL Documents	ELMELIANI.pdf	295423 e958e30a4271ffcaa38482ca5c10ea944e09a351	no	4

Warnings:

Information:

3	Fee Worksheet (PTO-06)	fee-info.pdf	31954 e1dbe8cafd6a653351d02b54c8aab8cc49fde58b2c	no	2

Warnings:

Information:

Total Files Size (in bytes):	1606022

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/SB/06 (07-06)
Approved for use through 1/31/2007. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number	Filing Date	☐ To be Mailed
10/618,633	07/15/2003	

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY ☒ RATE ($)	SMALL ENTITY ☒ FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =		OR	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =			X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $250 ($125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT	12/16/2008	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE ($)	SMALL ENTITY ADDITIONAL FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 45	Minus	** 56	= 0	X $26 =	0	OR	X $ =	
	Independent (37 CFR 1.16(h))	* 2	Minus	***3	= 0	X $110 =	0	OR	X $ =	
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE	0	OR	TOTAL ADD'L FEE	

AMENDMENT		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)	OR	RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =		OR	X $ =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =		OR	X $ =	
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

Legal Instrument Examiner:
/CATHERINE d. SMITH/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS :	Robert A. KENNEWICK *et al.*	CONFIRMATION NO.:	5659
SERIAL NUMBER :	10/618,633	EXAMINER:	James S. Wozniak
FILING DATE :	July 15, 2003	ART UNIT:	2626
FOR :	MOBILE SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE		

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicants hereby make of record in the above-identified application the documents listed on the attached Form PTO-1449.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

Google Exhibit 1019
Page 00385

This Supplemental Information Disclosure Statement is being filed more than three months after the filing date of a national application other than a continued prosecution application under 37 C.F.R. §1.53(d), or more than three months after the date of entry of the national stage as set forth in 37 C.F.R. §1.491 in an international application, and after the mailing date of the first Office Action on the merits, but before the mailing date of any of a Final Action under 37 C.F.R. §1.113, a Notice of Allowance under 37 C.F.R. §1.311, or an action that otherwise closes prosecution in the application. 37 C.F.R. §1.97(c).

Documents D and F were cited by the U.S. Patent Office in co-pending Application Serial No. 11/200,164, filed August 10, 2005, in an Office Action dated December 3, 2008. Documents A-C, E, and G-J were cited by the U.S. Patent Office in co-pending Application Serial No. 11/747,547, filed May 11, 2007, in a Notice of Allowability dated December 15, 2008. I hereby certify that no item of information contained in this Supplemental Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to my knowledge after making reasonable inquiry, no item of information contained in this Supplemental Information Disclosure Statement was known to any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing of this Supplemental Information Disclosure Statement. 37 C.F.R. §1.97(e)(2).

Google Exhibit 1019
Page 00386

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449.

Respectfully submitted,

PILLSBURY WINTHROP SHAW PITTMAN LLP

By_____
Syed Jafar Ali
Registration No.: 58,780

Customer No.
00909

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Dated: March 3, 2009

Google Exhibit 1019
Page 00387

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

Form PTO-1449

Docket Number	Application Number
090611-0312470	10/618,633
Applicant(s)	
Robert A. KENNEWICK *et al.*	
Filing Date	Group Art Unit
July 15, 2003	2626

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A	4,430,669	02/07/1984	Cheung	358	122	
	B	2002/0065568	05/30/2002	Silfvast *et al.*	700	94	
	C	2002/0082911	06/27/2002	Dunn *et al.*	705	14	
	D	2002/0120609	08/29/2002	Lang *et al.*	707	1	
	E	2002/0124050	09/05/2002	Middeljans	709	203	
	F	2003/0014261	01/16/2003	Kageyama	704	275	
	G	2005/0114116	05/26/2005	Fiedler	704	201	
	H	2007/0033005	02/08/2007	Cristo *et al.*	704	9	
	I	2007/0038436	02/15/2007	Cristo *et al.*	704	9	
	J	2008/0091406	04/17/2008	Baldwin *et al.*	704	4	

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translations YES	Translations NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

401121331v1

Electronic Acknowledgement Receipt

EFS ID:	4891144
Application Number:	10618633
International Application Number:	
Confirmation Number:	5659
Title of Invention:	Mobile systems and methods for responding to natural language speech utterance
First Named Inventor/Applicant Name:	Robert A. Kennewick
Customer Number:	00909
Filer:	Syed Jafar Ali/Susan Trader
Filer Authorized By:	Syed Jafar Ali
Attorney Docket Number:	090611-0312470
Receipt Date:	03-MAR-2009
Filing Date:	15-JUL-2003
Time Stamp:	10:07:02
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		0312470_SIDS.pdf	110008 af4f723ce51015977b167a27ee13f447b36b916f	yes	4

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Information Disclosure Statement Letter	1	3
	Information Disclosure Statement (IDS) Filed (SB/08)	4	4
Warnings:			
Information:			
	Total Files Size (in bytes):	110008	

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/618,633	07/15/2003	Robert A. Kennewick	090611-0312470	5659

909 7590 03/16/2009
PILLSBURY WINTHROP SHAW PITTMAN, LLP
P.O. BOX 10500
MCLEAN, VA 22102

EXAMINER	
WOZNIAK, JAMES S	

ART UNIT	PAPER NUMBER
2626	

MAIL DATE	DELIVERY MODE
03/16/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/618,633	KENNEWICK ET AL.	
	Examiner	Art Unit	
	JAMES S. WOZNIAK	2626	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *16 December 2008*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1,2,4,6-8,10-39,41-43 and 57-62* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1,2,4,6-8,10-39,41-43 and 57-62* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *15 July 2003* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☒ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

Interview Summary	Application No.	Applicant(s)	
	10/618,633	KENNEWICK ET AL.	
	Examiner	Art Unit	
	JAMES S. WOZNIAK	2626	

All participants (applicant, applicant's representative, PTO personnel):

(1) *JAMES S. WOZNIAK.* (3)_____.

(2) *Syed Jafar Ali (Reg. No. 58,780).* (4)_____.

Date of Interview: *30 September 2008.*

Type: a)☒ Telephonic b)☐ Video Conference
c)☐ Personal [copy given to: 1)☐ applicant 2)☐ applicant's representative]

Exhibit shown or demonstration conducted: d)☐ Yes e)☒ No.
If Yes, brief description: _____.

Claim(s) discussed: *1*.

Identification of prior art discussed: *Lin et al, Bennett et al (US 6,615,172).*

Agreement with respect to the claims f)☐ was reached. g)☒ was not reached. h)☐ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: *Discussed possible differences between the applicants' invention and the prior art of record. No specific claim language was agreed upon..*

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN A NON-EXTENDABLE PERIOD OF THE LONGER OF ONE MONTH OR THIRTY DAYS FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

DETAILED ACTION

Response to Amendment

1. In response to the office action from 7/22/2008, the applicant has submitted an amendment, filed 12/16/2008, amending independent claims 1 and 28, while arguing to traverse the art rejection based on the limitation regarding the speech recognition engine and the agent architecture *(Amendment, Pages 12-17)*. Applicant's arguments have been fully considered, however the previous rejection is maintained due to the reasons listed below in the response to arguments.

2. In response to amended claim 27, the examiner has withdrawn the previous objection directed towards minor informalities.

3. As no terminal disclaimer has been filed, the previous Double Patenting rejection is maintained.

Response to Arguments

4. Applicant's arguments have been fully considered but they are not persuasive for the following reasons:

With respect to independent claim 1, the applicants argue that the combination of Bennett et al *(U.S. Patent: 6,615,172)* and Lin et al *("A Distributed Architecture for Cooperative Spoken Dialogue Agents with Coherent Dialogue State and History," 1999)* fails to teach the claimed speech recognition engine. In support of such arguments, the applicants first argue that Lin teaches away from their invention because Lin notes that there are issues with a centralized model and defines domain independent and domain dependent procedures *(Amendment, Pages 13-14)*. Thus, the applicants argue that since Lin teaches this independent data for acoustic speech recognition and disavows the use of domain and state/history information for recognition, the combination of Bennett and Lin fails to teach the applicants' claimed speech recognition engine *(Amendment, Pages 13-14)*.

In response, the examiner notes that it is the teachings of Bennett that are relied upon for the domain-dependent speech recognition. Bennett teaches that based upon user's state and context during an interactive session, grammars and dictionaries are dynamically loaded into a speech recognizer *(Col. 27, Lines 17-67)*. Thus, Bennett mentions that speech recognition comprises grammars and dictionaries that are context/state specific. This position is further supported by the teachings of Lin. Although relied upon for the teaching of dialog agent architecture, Lin also discloses that speech recognition lexicons and grammars are part of a graph search in recognition (*Fig. 2)*. The speech recognition section shown in Lin is only related to general acoustic matching and not the actual language understanding portion of the recognition *(Section 2.2)*. By using a general set of acoustic models, Lin can save on network bandwidth *(as is argued by the applicant)*, but never states that such models cannot be used, and thus, does not teach away from their use. Furthermore, it is noted that it is the primary Bennett reference that

already teaches this concept and does not require the incorporation of this concept from Lin that would even result in a "teaching away". Thus, this argument has been fully considered, but is not convincing.

The applicants next argue that Lin's graph search fails to address the deficiencies of the references because the claim cites a parser and graph search which are functions related to a parser not the claimed speech recognition engine *(Amendment, Page 14)*. The examiner respectfully disagrees for two reasons. First, as was noted above, it is the Bennett reference that provides the teaching of domain-dependent speech recognition. Second, graph search is known in the art as being a speech recognition process and the parser in Lin directly corresponds to the claimed parser *(i.e., graph search and parsing- which indicates two separate processes, Fig. 2)*. Thus, these arguments have been fully considered, but are not convincing.

The applicants further argue that the prior art fails to teach that data used by the speech recognizer is dynamically updated based on at least a history of one or more prior dialogs associated with the user because Bennett allegedly deletes data once speech is recognized *(Amendment, Page 15)*. In response, the examiner notes that the section of Bennett the applicants rely upon is found in Col. 28, Lines 30-36. In this section, Bennett is merely noting that once recognition is accomplished the data necessary for completing this process is cleared out from system memory so that new required data can be entered. This section would actually add support to Bennett's dynamic updating because newly required speech recognition data is always loaded into memory. The data is selected based upon a user's status/context within a dialog history which is maintained *(Col. 27, Lines 17-51)*. There is no mention in Bennett that this status/context history is deleted upon recognition, only that the data required for recognition

is cleared out of a memory. Further, since the claim language states that data is updated for speech recognition based on a dialog history and Bennett teaches dynamically updating data for speech recognition in a memory based on an updated dialog history, Bennett does teach the aforementioned claim limitation. Thus, this argument has been fully considered, but is not convincing.

Next, the applicants address the claimed “agent architecture”. The applicants argue that Lin fails to teach that agents communicatively couple the services of an "agent manager, a system agent, the plurality of domain agents, and an agent library". While the applicants do state that the SDAs of Lin could read on the claimed plurality of domain agents, they argue that Lin does not teach the complete architecture because his architecture lacks at least an agent manager, a system agent, and an agent library *(Amendment, Page 16)*. In response, the examiner notes that Lin does teach the complete agent architecture as is claimed by the applicants. As was indicated in the previous Office Action *(Page 9)*, Lin recites the following- a user interface agent manager that corresponds to the claimed agent manager (Section 2.2-3.1 and Fig. 3), a facilitator/switcher that enables dialog system processes through dialog/state history that corresponds to the claimed system agent *(Figs. 2 and 3)*, a plurality of spoken dialog agents *(SDAs)* that correspond to the claimed plurality of domain agents *(Fig. 3)*, and a database accessible by the agents *(Fig. 3)*. Thus, Lin does teach the applicants’ claimed agent architecture.

The applicants next address the art rejection of dependent claim 2. More specifically, the applicants argue that Lin fails to teach the claimed event manager because: the applicants cite a single component for this function, the examiner is inconsistent because the facilitator is used for event switching, Lin allegedly does not teach a multi-thread environment because only one

thread is active and dialog state history is not stored in an SDA *(Amendment, Pages 17-18)*. In response, the examiner notes that it is the facilitator that corresponds to event manager, but works in combination with the user interface as one of its components *(Sections 3.1 and 4)*. Secondly, it is noted that while Lin does discloses that the agents *themselves* do not permanently store the multi-thread dialog data, the facilitator/UI does enable its storage *(Fig. 2 and Section 3.1; "carry over the dialog state and history so as to keep the knowledge processed persistently and consistently across different domains", abstract)*. Furthermore although providing real-time responses is an intended result that flows naturally from a multi-threaded environment *(which is taught by and thus flows naturally from the teachings of Lin as per the above response)*, Lin additionally teaches system implementation in a usable practical travel information service *(Sections 1 and 5)*. Thus, this argument has been fully considered, but is not convincing.

The art rejections of the remainder of the independent and dependent claims are traversed for reasons similar to claim 1 *(Amendment, Pages 17 and 19-20)*. In regards to such arguments, see the response directed towards claim 1.

Claim Objections

5. **Claim 29** is objected to because of the following informalities:

Claims 1-2, 4, 6-8, 10-27, and 57-62 recite various steps/elements "configured to" perform certain functions. It is not certain whether these functions are part of the claim because they are not positively recited only "configured to" perform them. These functions will be considered as being actively performed for the application of the prior art of record.

Claim 29 is objected to for being dependent upon an independent claim that is rejected under 35 U.S.C. 101, however, claim 29 would overcome this rejection if amended to include all of the limitations of its parent claims because it includes physical hardware.

Appropriate correction is required.

Double Patenting

6. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned

with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

7. **Claims 1 and 28** are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claim 1 of U.S. Patent No. 7,398,209 in view of Lin et al *("A Distributed Architecture for Cooperative Spoken Dialogue Agents with Coherent Dialogue State and History," 1999)*. Although the conflicting claims are not identical, they are not patentably distinct from each other because both applications essentially refer to the same system/method. Although the present application additionally recites an event manager in the independent claims, this element would obvious in view of the teachings of Lin et al. Lin teaches discloses a user interface agent manager that enables query forwarding to a particular dialog agent for answer retrieval *(Sections 2.2- 3.1 and Fig. 3)* for the benefit of handling dialog across multiple subject domains (or applications) efficiently and intelligently *(Lin, Section 1)*. Although '209 features additional steps/means: "Omission of an element and its function is an obvious expedient if the remaining elements perform the same functions as before". *In re Karlson*, 136 USPQ 184 (1963). Thus, Claims 1 and 28 are not patently distinct from claim 1 of US 7,398,209.

Claim Rejections - 35 USC § 101

8. 35 U.S.C. 101 reads as follows:

> Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

9. **Claims 1-2, 4, 6-8, 10-27, and 57-62** are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Although **claim(s) 1 and its associated dependent claims** appear to fall within a statutory category *(i.e., apparatus)*, these claim(s) encompass nothing more than logic/software modules as per the specification *("software includes one or more of the following modules", Pages 5-6)*. Thus, claim(s) 1 and its associated dependent claims are directed to non-statutory subject matter because their scope includes a computer program embodiment, an abstract data structure which does not fall within one of the four statutory categories *(i.e., it is directed to a program per se)*. See also MPEP § 2106.IV.B.1.a. Data structures not claimed as embodied in computer readable media are descriptive material *per se* and are not statutory because they are not capable of causing functional change in the computer. See, e.g., *Warmerdam*, 33 F.3d at 1361, 31 USPQ2d at 1760 (claim to a data structure *per se* held nonstatutory). Such claimed data structures do not define any structural and functional interrelationships between the data structure and other claimed aspects of the invention, which permit the data structure's functionality to be realized. In contrast, a claimed computer readable medium encoded with a data structure defines structural and functional interrelationships between the data structure and the computer software and hardware components which permit the data structure's functionality to be realized, and is thus statutory. Similarly, computer programs claimed as computer listings

per se, i.e., the descriptions or expressions of the programs are not physical "things." They are neither computer components nor statutory processes, as they are not "acts" being performed. Such claimed computer programs do not define any structural and functional interrelationships between the computer program and other claimed elements of a computer, which permit the computer program's functionality to be realized.

Claim Rejections - 35 USC § 103

10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

11. **Claims 1, 2, 4, 6, 13, 15-17, 22-23, 27-28, 31-32, 41, and 57-62** are rejected under 35 U.S.C. 103(a) as being unpatentable over Bennett et al *(U.S. Patent: 6,615,172)* in view of Lin et al *("A Distributed Architecture for Cooperative Spoken Dialogue Agents with Coherent Dialogue State and History," 1999)*.

With respect to **Claim 1**, Bennett discloses:

A speech unit that receives a natural language speech utterance and encodes the user generated natural language speech utterance into an electronic signal, said user generated natural language speech utterance having at least one of a query and a command *(coding a spoken query, Col. 10, Line 54- Col. 11, Line 17; and Col. 15, Line 53- Col. 16, Line 21)*;

A natural language speech processing system that receives, processes and response to the encoded natural language speech utterance using data received from a domain agent *(natural language processor that retrieves a query from a speech signal and forwards the question to a specific application portion to retrieve an answer, Col. 24, Line 46- Col. 25, Line 67; Col. 27, Lines 17-51; and Col. 29, Line 30- Col. 30, Line 7; and agent, Col. 10, Line 54- Col. 11, Line 17)*, wherein the natural language speech processing system includes:

A speech recognition engine that recognizes at least one of words or phrases in the encoded natural language speech utterance using the data received from a plurality of domains, wherein the data used by the speech recognition engine is dynamically updated based on at least a history of one or more prior dialogs associated with the user *(speech recognizer for recognizing query words/phrases that relies on context data from different domains, Col. 7, Lines 17-51; and Col. 27, Lines 17-67)*;

A parser that interprets the recognized words or phrases using the data received from the plurality of domains *(natural language understanding means, Col. 17, Lines 27-36)*, wherein the parses interprets the recognized words or phrases by:

Determining a context for the natural language speech utterance *(natural language understanding means utilizing parsing to determine an application domain based on user speech content and context, Col. 11, Line 59- Col. 12, Line 10; Col. 17, Lines 28-67; and Col. 27, Lines 17-51)*.

Selecting one of the contexts based on the determined contexts *(natural language speech processor that identifies a selects a grammar context, Col. 11, Lines 34-38; Col. 17, Lines 28-67; Col. 27, Lines 17-51; and Col. 29, Line 47- Col. 30, Line 2)*; and

Transforming the recognized words or phrases into at least one of a question or a command, the at least one of said query and said command formulated in a grammar that the selected domain agent uses to process the formulated question or command *(natural language processor uses grammars that provides and generates the available user queries, Col. 11, Lines 34-38; Col. 17, Lines 28-67; and Col. 27, Lines 17-51)*; and

A shared architecture between system *components (Col. 11, Lines 34-38)*.

Although Bennett discloses processing a natural language query, forwarding the query to a specific application portion based on context, method use with multiple application domains *(Col. 29, Line 47-Col. 30, Line 2)*, and answer generation *(Col. 24, Line 46- Col. 25, Line 67; Col. 27, Lines 17-51; and Col. 29, Line 30- Col. 30, Line 7)*, Bennett does not explicitly disclose the use of arbitrating means for selecting and forwarding a query to an executable dialog agents associated with different domains. Lin, however discloses a user interface agent manager that enables query forwarding to a particular dialog agent for answer retrieval *(Sections 2.2- 3.1 and Fig. 3)*. Lin further teaches that each spoken dialogue agent (SDA) has access to the same set of Internet-enabled services and databases and functional system agents *(Fig. 2 and 3)*. Also, each SDA can access information services as a result of a shared dialogue/state history *(Fig. 3)*. In this cooperative case, an SDA can access services of all the SDAs through other SDAs via a switching routine *("sends the dialogue state and history to the new SDA", Section 3.1)*. Lin further teaches a non-acoustic speech recognition graph search portion that relies on domain specific data from the SDAs *(Lexicon, Grammar Rules, and Language Models, Fig. 2; and Fig. 5)*. Finally, Lin teaches an architecture wherein a user interface agent receives responses from the specific SDAs and then transmits them to a user *(Figs. 2-3)*.

Bennett and Lin are analogous art because they are from a similar field of endeavor in information retrieval systems utilizing speech recognition. Thus, it would have been obvious to a person of ordinary skill in the art, at the time of invention, to modify the teachings of Bennett with the interface agent architecture taught by Lin in order to handle dialog across multiple subject domains (or applications) efficiently and intelligently *(Lin, Section 1)*.

With respect to **Claim 2**, Lin further discloses:

The natural language speech processing system further comprises an event manager, which sends and receives events to components of the natural language speech processing system to coordinate interaction between components of the natural language speech processing system, wherein the event manager includes a multi-threaded environment configured to enable the natural language speech processing system to provide real-time response to a plurality of questions or commands across a plurality of user sessions *(user interface agent having a facilitator, Fig. 3 that allows for passing multi-thread information among other SDA sessions, Section 3.1; and abstract)*.

With respect to **Claim 4**, Bennett further discloses:

A text to speech engine that creates an encoded speech message to be annunciated to the user *(text-to-speech engine, Col. 10, Lines 54-67; text-to-sound file creation at a server, Col. 22, Lines 7-17; and answer is compressed, Col. 25, Lines 59-67)*.

With respect to **Claim 6**, Lin further discloses dialog domain agents associated with travel information *(Fig. 3)*.

With respect to **Claim 13**, Lin further discloses:

The communicatively coupled services include at least one remotely located service and the selected domain agent includes data for controlling or communicating with the remotely located service *(remote database and Internet services, which the SDAs are capable of communicating with or controlling, Fig. 3)*.

With respect to **Claim 15**, Bennett further discloses:

The speech unit and the natural language speech processing system each include respective transceivers that communicate via a communication network *(client and server components with receiver/transmitter means for communicating over a network, Fig. 1)*.

With respect to **Claim 16**, Bennett further discloses:

The communication network is a wide area wireless network *(large scale system employing a wireless communication medium, Col. 10, Lines 33-53)*.

With respect to **Claim 17**, Bennett further discloses:

The transceiver is a wide-area RF transceiver *(RF link over a cellular network, Col. 10, Lines 33-53)*.

With respect to **Claim 22**, Bennett further shows:

The speech unit is located remotely from the natural language speech processing system and the transceiver *(Fig. 1)*.

With respect to **Claim 23**, Bennett further discloses a display *(Col. 10, Lines 54-65)*.

With respect to **Claim 27**, Bennett discloses a network for cellular phones *(Col. 10, Lines 33-53)*, while Lin recites a common database of dialog states/histories and network database shared across multiple common agents *(Fig. 3)*.

Claim 28 recites subject matter similar to Claim 1, and thus, is rejected for the same reasons.

Claim 31 contains subject matter similar to claim 6, and thus, is rejected under similar rationale.

Claim 32 contains subject matter similar to claim 13, and thus, is rejected under similar rationale.

Claim 41 contains subject matter similar to claim 27, and thus, is rejected under similar rationale.

With respect to **Claim 57**, Bennett further discloses:

Load and initialize the system agent and the domain agent(s) when the natural language speech processing system boots-up *(management for agent and system communication capabilities for boot-up processing, Col. 20, Line 45- Col. 21, Line 53)*;

Unload the system agent and the agent(s) when the natural language speech processing system shuts-down *(management for agent and communication shut down, Col. 24, Lines 9-35)*;

While Lin discloses the multi-agent architecture as applied to claim 1 and further recites:

Perform license management for the plurality of domain agents and content stored in one or more databases *(facilitator/UI is a functional component that manages the registered associated SDAs and databases, Fig. 3; Section 2.1 and Section 3.3)*; and

Search a network to find a source for a suitable agent if the question or command requires an agent not currently loaded on the natural language speech processing system *(new agent is located and discovered for a different topic, Section 3.3)*.

With respect to **Claim 58**, Lin further discloses:

The agent library includes one or more utilities for commonly used functions in the natural language speech processing system, wherein the commonly used functions include at least one of text and string handling, network communications, database lookup and management, fuzzy and probabilistic evaluation, or text to speech formatting *(database server lookup/management shared among multiple agents, Fig. 3)*.

With respect to **Claim 59**, Lin further discloses:

Provide default functionality and foundation services that can be used by each of the plurality of domain agents *(facilitator allows sharing among core services in the dialog system, Fig. 3 and Section 3.1)*;

Use the utilities of the agent library for the commonly used functions *(enabling agent operation to access databases for information retrieval, Figs. 3 and 6; Section 3.3)*; and

Manage one or more criteria handlers used to determine the context for the natural language speech utterance, wherein the one or more criteria handlers provide context sensitive procedures for extracting information from the at least one question or command *(facilitator enables/activates an SDA and access to it's associated dialog manager which allows for the determination of context for further understanding and subsequent answer retrieval, Fig. 2; and Section 2.2)*.

With respect to **Claim 60**, Bennett further discloses:

Determine an identity of the user based on unique voice characteristics of the user *(speaker identification in speaker dependent recognition, Col. 12, Lines 47-56)*; and

Tag the recognized words or phrases with the identity of the user to associate the utterance with the user and a dialog in the natural language speech processing system *(words in a*

user's question are tagged for association with a user for sending back an answer, Col. 7, Lines 22-33; and Col. 8, Lines 1-7).

With respect to **Claim 61**, Bennett further discloses:

The data used by the speech recognition engine is dynamically updated based on one or more dynamic fuzzy set possibilities or prior probabilities *(speech recognition models are dynamically updated in a recognizer according to prior probability distributions, Col. 13, Lines 6-24; and Col. 27, Lines 17-51).*

With respect to **Claim 62**, Lin further discloses method implementation in a real-time practical travel dialog system *(Abstract; and Sections 1 and 5).*

12. **Claims 7-8, 10-12, 30, and 38-39** rejected under 35 U.S.C. 103(a) as being unpatentable over Bennett et al in view of Lin et al and further in view of Gerson *(U.S. Patent: 6,937,977).*

With respect to **Claims 7-8 and 10**, Bennett in view of Lin discloses dialog agents capable of retrieving responses to speech inputs for a number of different applications, as applied to Claim 1. Bennett in view of Lin does not specifically disclose an application domain related to communicating with a vehicle device in order to enable device control. Gerson, however, discloses a vehicle control server application that recognizes a control command and communicates a command message back to a vehicle device to enable device control *(Col. 6, Line 66-Col. 7, Line 15).*

Bennett, Lin, and Gerson are analogous art because they are from a similar field of endeavor in speech-controlled systems. Thus, it would have been obvious to a person of ordinary skill in the art, at the time of invention, to modify the teachings of Bennett in view of

Lin with the vehicle device control application taught by Gerson in order to increase system applicability by enabling its use for hands-free control of vehicle devices *(Gerson, Col. 6, Line 66- Col. 7, Line 15; and Col. 9, Lines 5-8)*.

With respect to **Claim 11**, Gerson further shows the vehicle control application located remotely from a vehicle *(Fig. 1)*.

With respect to **Claim 12**, Gerson further discloses control of a vehicle entertainment system and other vehicle devices *(Col. 6, Line 66- Col. 7, Line 15)*.

Claim 30 contains subject matter similar to claim 10, and thus, is rejected under similar rationale.

13. Claim 14 and 33-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bennett et al in view of Lin et al and further in view of Hedin et al *(U.S. Patent: 6,185,535)*.

With respect to **Claim 14**, Bennett in view of Lin discloses dialog agents capable of retrieving responses to speech inputs for a number of different applications, as applied to Claim 13. Bennett in view of Lin does not specifically disclose the communication of a recognized command with a remotely located specialized service application, however, Hedin discloses a speech recognizer that sends a recognized speech command message to an external service *(Col. 9, Line 36- Col. 10, Line 24; and Fig. 3, Elements 205, 207 and 307)*.

Bennett, Lin, and Hedin are analogous art because they are from a similar field of endeavor in speech-controlled systems. Thus, it would have been obvious to a person of ordinary skill in the art, at the time of invention, to modify the teachings of Bennett in view of

Lin with the remote service communication means taught by Hedin in order to enable access and control of remote server applications *(Hedin, Col. 2, Lines 39-42)*.

With respect to **Claim 33**, Bennett in view of Lin discloses dialog agents capable of retrieving responses to speech inputs for a number of different applications, as applied to Claim 32. Bennett in view of Lin does not specifically disclose the communication of a recognized command/result with a remotely located service, however, Hedin discloses a speech recognizer that sends a recognized speech command message to an external service *(Col. 9, Line 36- Col. 10, Line 24; and Fig. 3, Elements 205, 207 and 307)*.

Bennett, Lin, and Hedin are analogous art because they are from a similar field of endeavor in speech-controlled systems. Thus, it would have been obvious to a person of ordinary skill in the art, at the time of invention, to modify the teachings of Bennett in view of Lin with the remote service communication means taught by Hedin in order to enable access and control of remote server applications *(Hedin, Col. 2, Lines 39-42)*.

With respect to **Claim 34**, Hedin further discloses the remotely located server device as shown in Fig. 1b.

Claim 35 contains subject matter similar to Claim 15, and thus, is rejected for the same reasons.

Claim 36 contains subject matter similar to Claim 14, and thus, is rejected for the same reasons.

Claim 37 contains subject matter similar to Claim 17, and thus, is rejected for the same reasons.

14. **Claims 18, 20-21, and 29** are rejected under 35 U.S.C. 103(a) as being unpatentable over Bennett et al in view of Lin et al and further in view of DeLine et al *(U.S. Patent: 6,420,975)*.

With respect to **Claim 18 and 20**, Bennett in view of Lin discloses the dialog agent system capable of receiving and encoding a user speech input, as applied to Claim 1. Also, Bennett further discloses:

The speech unit includes a speech coder that encodes the natural language speech utterance into the electronic signal *(speech coding means, Col. 15, Line 53- Col.16, Line 21)*, a microphone that receives the natural language speech utterance *(microphone, Col. 7, Lines 11-14)*, and a filter that optimizes a SNR of the encoded natural language speech utterance *(digital filter used to enhance the input speech signal, Col. 15, Line 27- Col. 16, Line 21)*.

Bennett in view of Lin does not specifically suggest that a speech input from a user is received via a one-dimensional microphone array, however DeLine discloses the use of such an array in a speech-enabled control system *(lined array of microphones, Col. 48, Lines 53-63)*.

Bennett, Lin, and DeLine are analogous art because they are from a similar field of endeavor in speech-controlled systems. Thus, it would have been obvious to a person of ordinary skill in the art, at the time of invention, to modify the teachings of Bennett in view of Lin with the one dimensional microphone array taught by DeLine in order to enhance vocal signal content and eliminate acoustic noise *(DeLine, Col. 48, Lines 53-63)*.

With respect to **Claim 21**, Bennett further discloses:

The speech coder uses an adaptive lossy audio compression *(speech encoding that includes only the least amount of information necessary to adequately and quickly complete speech recognition, Col. 15, Line 543- Col. 16, Line 21)*.

Claim 29 contains subject matter similar to claim 18, and thus, is rejected under similar rationale.

15. **Claims 19 and 38-39** are rejected under 35 U.S.C. 103(a) as being unpatentable over Bennett et al in view of Lin et al and further in view of DeLine et al and yet further in view of Gerson *(U.S. Patent: 6,937,977)*.

With respect to **Claim 19**, Bennett in view of Lin and further in view of DeLine discloses the dialog agent system capable of receiving and encoding a user speech input, as applied to Claim 18. The aforementioned prior art does not explicitly teach adaptive echo cancellation, however, Gerson, in an analogous field of art in speech-controlled systems, teaches an echo canceling block capable of eliminating echoes and noise in varying conditions that provides the added benefit to the other prior art of preventing an echo from being recognized at a speech recognizer *(Col. 9, Line 24-Col. 10, Line 10)*.

With respect to **Claims 38-39**, Gerson further discloses an echo canceling block capable of eliminating echoes and noise in varying conditions that provides the benefit of preventing an echo from being recognized at a speech recognizer *(Col. 9, Line 24-Col. 10, Line 10)*.

16. **Claims 24-26 and 42-43** are rejected under 35 U.S.C. 103(a) as being unpatentable over Bennett et al in view of Lin et al and further in view of Turnbull et al *(U.S. Patent: 6,980,092)*.

With respect to **Claims 24-25**, Bennett in view of Lin discloses the speech interactive system, as applied to Claim 1. Bennett in view of Lin does not specifically suggest system implementation in a telematics control unit. Turnbull, however, discloses implementation of a

speech interactive system embedded in a telematics device *(speech recognition processing, Col. 30, Line 43- Col. 31, Line 2, in an in-vehicle telematics assembly, Col. 29, Lines 56-63; controlling in-vehicle devices in response to recognized voice commands, Col.28, Line 53- Col. 29, Line 36, Col. 30, Line 43- Col. 31, Line 2, and Col. 36, Lines 57-63; and control bus for sending control signals to the various vehicle devices, Fig. 11, Element 102)*.

Bennett, Lin, and Turnbull are analogous art because they are from a similar field of endeavor in speech-controlled systems. Thus, it would have been obvious to a person of ordinary skill in the art, at the time of invention, to modify the teachings of Bennett in view of Lin with the telematics unit taught by Turnbull in order to implement a speech communication and control system that can be readily installed in a vehicle *(Turnbull, Col. 3, Lines 20-22)*.

With respect to **Claim 26**, Turnbull discloses the in-vehicle telematics unit as applied to Claims 24-25.

Claim 42 contains subject matter similar to claim 24, and thus, is rejected under similar rationale.

With respect to **Claim 43**, Turnbull further discloses remote network resources located at a different location than a vehicle *(Col. 35, Lines 48-67)*.

Conclusion

17. Any inquiry concerning this communication or earlier communications from the examiner should be directed to James S. Wozniak whose telephone number is (571) 272-7632. The examiner can normally be reached on M-Th, 7:30-5:00, F, 7:30-4, Off Alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Edouard can be reached at (571) 272-7603. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/James S. Wozniak/
Primary Examiner, Art Unit 2626

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	10618633	KENNEWICK ET AL.
	Examiner	Art Unit
	JAMES S WOZNIAK	2626

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	02/26/2009								
	1	✓								
	2	✓								
	3	-								
	4	✓								
	5	-								
	6	✓								
	7	✓								
	8	✓								
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	10	✓								
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	32	✓								
	33	✓								
	34	✓								
	35	✓								
	36	✓								

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CLAIM		DATE								
Final	Original	02/26/2009								
	37	✓								
	38	✓								
	39	✓								
	40	-								
	41	✓								
	42	✓								
	43	✓								
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	55	-								
	56	-								
	57	✓								
	58	✓								
	59	✓								
	60	✓								
	61	✓								
	62	✓								

INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Docket Number	Application Number
	090611-0312470	10/618,633
	Applicant(s)	
	Robert A. KENNEWICK *et al.*	
	Filing Date	Group Art Unit
Form PTO-1449	July 15, 2003	2626

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/J.W./	A	4,430,669	02/07/1984	Cheung	358	122	
	B	2002/0065568	05/30/2002	Silfvast *et al.*	700	94	
	C	2002/0082911	06/27/2002	Dunn *et al.*	705	14	
	D	2002/0120609	08/29/2002	Lang *et al.*	707	1	
	E	2002/0124050	09/05/2002	Middeljans	709	203	
	F	2003/0014261	01/16/2003	Kageyama	704	275	
	G	2005/0114116	05/26/2005	Fiedler	704	201	
	H	2007/0033005	02/08/2007	Cristo *et al.*	704	9	
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/J.W./	J	2008/0091406	04/17/2008	Baldwin *et al.*	704	4	

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	REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translations YES	Translations NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

EXAMINER	DATE CONSIDERED
/James Wozniak/	03/12/2009

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

401121331v1

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	10618633	KENNEWICK ET AL.
	Examiner	**Art Unit**
	JAMES S WOZNIAK	2626

SEARCHED

Class	Subclass	Date	Examiner
704	270, 270.1, 275, 257	1/22/09	/JW/
709	202	1/22/09	/JW/

SEARCH NOTES

Search Notes	Date	Examiner
EAST Update Search (see attached printout)	1/22/09	/JW/

INTERFERENCE SEARCH

Class	Subclass	Date	Examiner

	/JAMES S WOZNIAK/ Primary Examiner.Art Unit 2626

Google Exhibit 1019
Page 00419

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S76	192	(dialog dialogue IVR) and (speech near5 recogni$5) and (load$4) and (unload$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/22 13:23
L7	108	l6 and (dialog IVR)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/22 16:26
L6	239	"704"/$.ccls. and (label$3 tag $3) near7 (word phrase) near7 (user speaker)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/22 16:26
L5	210	"704"/$.ccls. and (label$3 tag $3) near7 (word phrase) near7 (user)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/22 16:26
L8	6	10/452147	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/22 17:06
L9	6766	(704/270 704/270.1 704/275 704/257 709/202).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/22 17:36

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INFORMATION DISCLOSURE CITATION IN AN APPLICATION

Form PTO-1449

Docket Number	Application Number
090611-0312470	10/618,633
Applicant(s)	
Robert A. KENNEWICK *et al.*	
Filing Date	Group Art Unit
July 15, 2003	2626

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/J.W./	A	5,274,560	12/28/1993	LaRue	364	444	
	B	5,377,350	12/27/1994	Skinner	395	600	
	C	5,902,347	05/11/1999	Backman *et al.*	701	200	
	D	6,195,634	02/27/2001	Dudemaine *et al.*	704	231	
	E	6,513,006	01/28/2003	Howard *et al.*	704	257	
	F	6,574,597	06/03/2003	Mohri *et al.*	704	251	
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	H	6,631,346	10/07/2003	Karaorman *et al.*	704	9	
	I	6,643,620	11/04/2003	Contolini *et al.*	704	270	
	J	6,795,808	09/21/2004	Strubbe *et al.*	704	275	
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	L	7,398,209	07/08/2008	Kennewick *et al.*	704	255	
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/J.W./	T	EL MELIANI *et al.*, "A Syllabic-Filler-Based Continuous Speech Recognizer for Unlimited Vocabulary", Canadian Conference on Electrical and Computer Engineering, Volume 2, September 5-8, 1995, pages 1007-1010.

EXAMINER	DATE CONSIDERED
/James Wozniak/	01/22/2009

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS :	Robert A. KENNEWICK et al.	CONFIRMATION NO.:	5659
SERIAL NUMBER :	10/618,633	EXAMINER:	James S. Wozniak
FILING DATE :	July 15, 2003	ART UNIT:	2626
FOR :	MOBILE SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE		

RESPONSE TO NON-FINAL OFFICE ACTION

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

In response to the Non-Final Office Action mailed **March 16, 2009**, please amend the above-identified application as follows:

Amendments to the Claims begin on page **2** of this paper.

Remarks/Arguments begin on page **14** of this paper.

It is not believed that extensions of time or fees for net addition of claims are required beyond those that may otherwise be provided for in documents accompanying this paper. However, if additional extensions of time are necessary to prevent abandonment of this application, then such extensions of time are hereby petitioned for under 37 C.F.R. § 1.136(a), and any fees required therefore (including fees for net addition of claims) are hereby authorized to be charged to our Deposit Account No. 033975 (**Ref. No. 090611-0312470**).

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AMENDMENT

Please replace all prior versions and listings of claims with the following listing of claims.

LISTING OF CLAIMS:

1. (**Currently Amended**) A mobile system responsive to a user generated natural language speech utterance, comprising:

a speech unit connected to a computer device on a vehicle, wherein the speech unit is configured to receive a natural language speech utterance from a user and convert the received natural language speech utterance into an electronic signal; and

a natural language speech processing system connected to the computer device on the vehicle, wherein the natural language speech processing system is configured to receive, process, and respond to the electronic signal using data received from a plurality of domain agents, wherein the natural language speech processing system includes:

a speech recognition engine configured to recognize at least one of words or phrases from the electronic signal using at least the data received from the plurality of domain agents, wherein the data used by the speech recognition engine includes a plurality of dictionary and phrase entries that are [[is]] dynamically updated based on at least a history of a current dialog and one or more prior dialogs associated with the user;

a parser configured to interpret the recognized words or phrases, wherein the parser uses at least the data received from the plurality of domain agents to interpret the recognized words or phrases, wherein the parser is configured to interpret the recognized words or phrases by:

determining a context for the natural language speech utterance;

selecting at least one of the plurality of domain agents based on the determined context; and

transforming the recognized words or phrases into at least one of a question or a command, wherein the at least one question or command is

formulated in a grammar that the selected domain agent uses to process the formulated question or command; and

an agent architecture configured to communicatively couple services of each of an agent manager, a system agent, the plurality of domain agents, and an agent library that includes one or more utilities that can be used by the system agent and the plurality of domain agents, wherein the selected domain agent is configured to use the communicatively coupled services to create a response to the formulated question or command and format the response for presentation to the user.

2. (**Currently Amended**) The mobile system according to claim 1, wherein the natural language speech processing system further includes an event manager configured to:

send and receive events to a plurality of components of the natural language speech processing system to coordinate interaction among the plurality of components of the natural language speech processing system[[,]]; and

provide ~~wherein the event manager includes~~ a multi-threaded environment configured to enable the natural language speech processing system to provide a plurality of real-time responses to a plurality of questions or commands in a plurality of different contexts across a plurality of ~~user~~ overlapping or interleaved sessions with the user.

3. (**Cancelled**)

4. (**Previously Presented**) The mobile system according to claim 1, wherein the response includes a text string and the natural language speech processing system further includes a text to speech engine configured to create an encoded speech message to be annunciated to the user.

5. (**Cancelled**)

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6. (**Currently Amended**) The mobile system according to claim 1, wherein the selected domain agent includes data associated with at least one of driving directions, travel information, restaurant information, ~~vehicle~~ systems information for the vehicle, safety information, or entertainment information.

7. (**Previously Presented**) The mobile system according to claim 1, wherein the selected domain agent includes data for communicating with one or more devices.

8. (**Previously Presented**) The mobile system according to claim 7, wherein the data for communicating with the one or more devices includes data for controlling the one or more devices.

9. (**Cancelled**)

10. (**Currently Amended**) The mobile system according to claim [[1]] 7, wherein at least one of the one or more devices is connected to the ~~associated with a~~ vehicle.

11. (**Currently Amended**) The mobile system according to claim 10, wherein at least one of the speech unit or the natural language speech processing system is located remotely from the vehicle and connected to the computer device on the vehicle through a communication link.

12. (**Currently Amended**) The mobile system according to claim 10, wherein the at least one device ~~associated with~~ connected to the vehicle includes [[is]] at least one of a navigation system, a ~~vehicle~~ monitoring system, a security system, a ~~vehicle~~ control system, or a ~~vehicle~~ media system connected to the vehicle.

13. (**Previously Presented**) The mobile system according to claim 1, wherein the communicatively coupled services include at least one remotely located service and the

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selected domain agent includes data for controlling or communicating with the remotely located service.

14. (**Previously Presented**) The mobile system according to claim 13, wherein the remotely located service includes at least one of a payment service provider, a customer relationship management system, a specialized service, a location service, or an emergency service.

15. (**Previously Presented**) The mobile system according to claim 13, wherein the speech unit and the natural language speech processing system each include respective transceivers configured to communicate via a communication network.

16. (**Original**) The mobile system according to claim 15, wherein the communication network is a wide area wireless network.

17. (**Previously Presented**) The mobile system according to claim 15, wherein the transceiver is a wide-area RF transceiver.

18. (**Previously Presented**) The mobile system according to claim 1, wherein the speech unit includes a speech coder configured to convert the natural language speech utterance into the electronic signal, an array microphone configured to receive the natural language speech utterance, and a filter configured to optimize a signal to noise ratio of the electronic signal.

19. (**Previously Presented**) The mobile system according to claim 18, wherein the filter is configured to employ adaptive echo cancellation to optimize the signal to noise ratio of the electronic signal.

20. (**Original**) The mobile system according to claim 18, wherein the array microphone is at least a one-dimensional array.

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21. (**Previously Presented**) The mobile system according to claim 18, wherein the speech coder is configure to use an adaptive lossy audio compression to convert the natural language utterance into the electronic signal.

22. (**Previously Presented**) The mobile system according to claim 1, wherein the speech unit is located remotely from the natural language speech processing system.

23. (**Previously Presented**) The mobile system according to claim 1, further comprising at least one of a display or a keypad.

24. (**Currently Amended**) The mobile system according to claim [[1]] 10, further comprising a telematics control unit configured to interface with the at least one device connected to the ~~or more devices on a~~ vehicle.

25. (**Previously Presented**) The mobile system according to claim 24, wherein at least one of the speech unit or the natural language speech processing system is embedded in the telematics control unit.

26. (**Currently Amended**) The mobile system according to claim 1, wherein at least one of the speech unit or the natural language speech processing system is embedded in at least one of [[a]] the vehicle, a handheld device connected to the vehicle, a fixed computer device connected to the vehicle, or a mobile computer device connected to the vehicle.

27. (**Previously Presented**) The mobile system according to claim 1, wherein the communicatively coupled services include at least one shared network resource.

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28. (**Currently Amended**) A method responsive to a user generated natural language speech utterance, comprising:

receiving, at a speech unit connected to a computer device on a vehicle, a natural language speech utterance from a user, wherein the speech unit is configured to convert the received natural language speech utterance into an electronic signal;

recognizing, at a speech recognition engine connected to the computer device on the vehicle, at least one of words or phrases from the electronic signal, wherein the speech recognition engine is configured to use at least data received from a plurality of domain agents to recognize the words or phrases, wherein the data used by the speech recognition engine includes a plurality of dictionary and phrase entries that are [[is]] dynamically updated based on at least a history of a current dialog and one or more prior dialogs associated with the user;

determining, at a parser connected to the computer device on the vehicle, a context for the natural language speech utterance;

selecting, at the parser connected to the computer device on the vehicle, at least one of the plurality of domain agents based on the determined context;

transforming, at the parser connected to the computer device on the vehicle, the recognized words or phrases into at least one of a question or a command, wherein the at least one question or command is formulated in a grammar that the selected domain agent uses to process the formulated question or command; and

forwarding the formulated question or command to an agent architecture connected to the computer device on the vehicle, wherein the agent architecture is configured to communicatively couple services of each of an agent manager, a system agent, the plurality of domain agents, and an agent library that includes one or more utilities that can be used by the system agent and the plurality of domain agents, wherein the selected domain agent is configured to use the communicatively coupled services to create a response to the formulated question or command and format the response for presentation to the user.

29. (**Previously Presented**) The method according to claim 28, wherein the speech unit includes an array microphone configured to receive the natural language speech utterance, a

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speech coder configured to convert the natural language speech utterance into the electronic signal, and a filter configured to optimize a signal to noise ratio of the electronic signal.

30. (**Currently Amended**) The method according to claim 28, the wherein the selected domain agent includes data for controlling or communicating with at least one of a navigation system, a ~~vehicle~~ monitoring system, a security system, a ~~vehicle~~ control system, or a ~~vehicle~~ media system connected to the vehicle.

31. (**Currently Amended**) The method according to claim 28, wherein the selected domain agent includes data associated with at least one of driving directions, travel information, restaurant information, ~~vehicle~~ systems information for the vehicle, safety information, or entertainment information.

32. (**Previously Presented**) The method according to claim 28, wherein the communicatively coupled services include at least one remotely located service and the selected domain agent includes data for controlling or communicating with the remotely located service.

33. (**Previously Presented**) The method according to claim 32, wherein forwarding the formulated question or command to the agent architecture includes transmitting a request to the remotely located service.

34. (**Previously Presented**) The method according to claim 33, wherein the remotely located service is associated with a remotely located device.

35. (**Previously Presented**) The method according to claim 33, wherein the request is transmitted to the remotely located service via a communication network.

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36. (**Previously Presented**) The method according to claim 32, wherein the remotely located service includes at least one of a payment service provider, a customer relationship management system, a specialized service, a location service, or an emergency service.

37. (**Previously Presented**) The method according to 33, wherein the request is transmitted to the remotely located service via a wide-area RF transceiver.

38. (**Previously Presented**) The method according to 29, wherein the filter is configured to remove background noise from the electronic signal to optimize the signal to noise ratio of the electronic signal.

39. (**Previously Presented**) The method according to 29, wherein the filter is configured to employ at least one of adaptive echo cancellation or adaptive lossy audio compression to optimize the signal to noise ratio of the electronic signal.

40. (**Cancelled**)

41. (**Previously Presented**) The method according to claim 28, wherein the communicatively coupled services include one or more shared network resources.

42. (**Currently Amended**) The method according to claim 41, wherein the shared network resources include a telematics control unit configured to interface ~~that interfaces~~ with one or more devices connected to the ~~on a~~ vehicle.

43. (**Previously Presented**) The method according to claim 42, wherein the shared network resources further include at least one resource located remotely from the vehicle.

44-56. (**Cancelled**)

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57. (**Previously Presented**) The mobile system according to claim 1, wherein the agent manager is configured to:

load and initialize the system agent and the plurality of domain agents when the natural language speech processing system boots-up;

unload the system agent and the plurality of domain agents when the natural language speech processing system shuts-down;

perform license management for the plurality of domain agents and content stored in one or more databases; and

search a network to find a source for a suitable agent if the question or command requires an agent not currently loaded on the natural language speech processing system.

58. (**Currently Amended**) The mobile system according to claim 1, wherein the ~~agent library includes~~ one or more utilities included in ~~for commonly used functions in~~ the ~~natural language speech processing system, wherein the commonly used functions~~ agent library include at least one of a text and string handling function, a network communications function, a database lookup and management function, a fuzzy and probabilistic evaluation function, or a text to speech formatting function.

59. (**Currently Amended**) The mobile system according to claim 58, wherein the system agent is configured to:

provide default functionality and foundation services that can be used by each of the plurality of domain agents;

use one or more of the utilities included in [[of]] the agent library to perform one or more of ~~for~~ the ~~commonly used functions~~ the text and string handling function, the network communications function, the database lookup and management function, the fuzzy and probabilistic evaluation function, or the text to speech formatting function; and

manage one or more criteria handlers used to determine the context for the natural language speech utterance, wherein the one or more criteria handlers provide context sensitive procedures for extracting information from the at least one question or command.

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60. (**Currently Amended**) The mobile system according to claim 1, wherein the speech recognition engine is configured to:

determine an identity of the user based on unique voice characteristics of the user; and

tag the recognized words or phrases with the identity of the user to associate the utterance with the user and [[a]] the current dialog in the natural language speech processing system.

61. (**Currently Amended**) The mobile system according to claim 1, wherein the plurality of dictionary and phrase entries ~~data~~ used by the speech recognition engine [[is]] are further dynamically updated based on one or more dynamic fuzzy set possibilities or prior probabilities derived from the history of the current dialog and the one or more prior dialogs.

62. (**Currently Amended**) The mobile system according to claim 2, wherein the multi-threaded environment of the event manager is configured to further enable the natural language speech processing system to use a plurality of the domain agents to provide the plurality of real-time responses to the plurality of questions or commands in the plurality of different contexts across the ~~using a~~ plurality of overlapping or interleaved sessions with the ~~domain agents~~ user.

63. (**New**) The method according to claim 28, further comprising:

executing the question or command in response to determining that the question or command will not create a hazardous condition for the vehicle;

providing interactive guidance to the user to resolve the hazardous condition during the current dialog in response to determining that the question or command will create a hazardous condition for the vehicle; and

enabling the user to manually override the hazardous condition, wherein the question or command is executed in response to the user manually overriding the hazardous condition.

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64. (**New**) The method according to claim 28, further comprising:

receiving diagnostic information from one or more sensors connected to the vehicle, wherein the diagnostic information relates to one or more problems with the vehicle;

providing one or more interactive announcements or warnings to the user in response to the diagnostic information received from the one or more sensors; and

mediating a solution to the one or more problems with the vehicle during the current dialog with the user.

65. (**New**) The method according to claim 64, wherein the solution to the one or more problems includes at least one of scheduling service for the vehicle, summoning help to the vehicle over one or more communication links, providing remedial instructions that address one or more of the problems, ordering one or more parts for the vehicle, or providing a cost estimate for the scheduled service.

66. (**New**) The method according to claim 28, further comprising:

detecting an accident situation in response to information received from one or more sensors connected to the vehicle;

interacting with the user to determine at least one of a nature of the accident situation or a condition of the user; and

reporting the accident situation to emergency personnel over a communications link.

67. (**New**) The method according to claim 66, wherein reporting the accident situation includes:

reporting at least one of the nature of the accident situation or the condition of the user to the emergency personnel; and

establishing a voice channel to enable communication between the user and the emergency personnel.

68. (**New**) The method according to claim 28, further comprising:

determining that the recognized words or phrases include at least one predetermined panic or emergency words or phrases indicating that a crime is occurring; and

summoning help to the vehicle over one or more communication links in response to the recognized words or phrases including the at least one predetermined panic or emergency words or phrases indicating that the crime is occurring.

69. (**New**) The method according to claim 28, further comprising providing interactive guidance to assist the user in performing one or more maneuvers to operate the vehicle.

70. (**New**) The method according to claim 28, further comprising:

providing interactive routing information to coordinate a rendezvous with one or more other vehicles in communication with the vehicle; and

establishing a voice channel to enable communication between the user and one or more users in the one or more other vehicles.

71. (**New**) The method according to claim 28, further comprising:

detecting that the vehicle is approaching or has exceeded a travel limit for the vehicle;

providing interactive guidance for returning to the travel limit or for not exceeding the travel limit; and

mediating a negotiation with the user to extend the travel limit.

72. (**New**) The method according to claim 28, further comprising providing interactive guidance to relating to one or more tasks for the user based on a location of the vehicle.

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REMARKS

Upon entry of the foregoing Amendment, claims 1-2, 4, 6-8, 10-39, 41-43, and 57-72 are pending in the application. Claims 1-2, 6, 10-12, 24, 26, 28, 30-31, 42, and 58-62 have been amended. No claims have been cancelled. Claims 63-72 have been newly added. Applicants believe that this Amendment does not add new matter. In view of the foregoing Amendment and the following Remarks, allowance of all the pending claims is requested.

CLAIM OBJECTIONS

The Examiner has objected to claim 29 because of alleged informalities. In particular, the Examiner has objected to claim 29 for allegedly "being dependent upon an independent claim that is rejected under 35 U.S.C. 101, however, claim 29 would overcome this rejection if amended to include all of the limitations of its parent claims because it includes physical hardware." Office Action, pages 6-7.

As an initial matter, Applicants note that the Examiner appears to have mistakenly indicated that claim 29 depends upon an independent claim rejected under 35 U.S.C. § 101. That is, claim 29 depends from independent claim 28, but the rejection under 35 U.S.C. § 101 does not allege that claim 28 or any of the claims dependent thereon are subject to the rejection. *See* Office Action, pages 9-10. Accordingly, for at least this reason, the basis for the objection to claim 29 as allegedly "being dependent upon an independent claim that is rejected under 35 U.S.C. 101" appears to be improper.

Additionally, the Examiner appears to have improperly indicated that "claim 29 would overcome this rejection if amended to include all of the limitations of its parent claims," for a fundamental principle of claim construction is that dependent claims include all of the features of the claims from which they depend. *See* 37 C.F.R. § 1.75(c). Thus, because claim 29 already includes "all of the limitations" of parent independent claim 28, the basis for the objection to claim 29 appears to be further improper for at least this reason.

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Accordingly, for at least the reason that the basis for the objection to claim 29 appears to rest on a factually incorrect basis and a legally incorrect standard of claim construction, Applicants request that the Examiner withdraw this objection to claim 29.

Furthermore, Applicants note that although the Examiner discusses claims 1-2, 4, 6-7, 10-27, and 57-62 under the "***Claim Objections***" heading in the Office Action, the Examiner has not indicated that claims 1-2, 4, 6-7, 10-27, and 57-62 are objected to for alleged informalities. Nonetheless, Applicants note that the Examiner has inquired as to whether the "various steps/elements 'configured to' perform certain functions . . . are part of the claim because they are not positively recited only 'configured to' perform them." Office Action, page 6.

In particular, Applicants submit that the various features reciting components "configured to" perform certain functions are indeed positively recited, for the functions are recited as specific features that the various components are configured to carry out. As such, Applicants submit that the Examiner has correctly indicated that "[t]hese functions will be considered as actively performed." Office Action, page 6.

Accordingly, for at least the reason that the basis for the Examiner's discussion of claims 1-2, 4, 6-7, 10-27, and 57-62 under the "***Claim Objections***" heading, Applicants request that the Examiner provide confirmation that these claims are not objected to for alleged informalities in the next Office Action.

NON-STATUTORY DOUBLE PATENTING REJECTION

The Examiner has rejected claims 1 and 28 under the judicially created doctrine of non-statutory obviousness-type double patenting, as allegedly being unpatentable over claim 1 of U.S. Patent No. 7,398,209 in view of "A Distributed Architecture for Cooperative Spoken Dialogue Agents with Coherent Dialogue State and History to Lin et al. ("Lin").

Applicants will consider filing a terminal disclaimer to overcome this rejection once otherwise patentable subject matter has been determined. Furthermore, Applicants note that the filing of a terminal disclaimer to obviate a rejection based on non-statutory double patenting does not constitute an admission of the propriety of the rejection. *See Quad Environmental Technologies Corp. v. Union Sanitary District*, 946 F.2d 870 (Fed. Cir. 1991).

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REJECTION UNDER 35 U.S.C. § 101

The Examiner has rejected claims 1-2, 4, 6-8, 10-27, and 57-62 under 35 U.S.C. § 101 as allegedly being directed to non-statutory subject matter. In particular, the Examiner alleges that "although **claim(s) 1 and its associated dependent claims** appear to fall within a statutory category *(i.e., apparatus)*, these claim(s) encompass nothing more than logic/software module as per the specification." Office Action, pages 9-10 (emphasis in original).

Solely for purposes of expediting prosecution of this application, and without acknowledging the propriety of the alleged basis for the rejection, Applicants have amended independent claim 1 to further clarify that the claims recite statutory subject matter. For example, amended independent claim 1 recites, among other things, "a speech unit" and "a natural language processing system" that are "connected to a computer device on a vehicle."

Accordingly, for at least the reason that independent claim 1 and the claims dependent thereon have been amended to recite structural and functional interrelationships with hardware components that permit the functionality to be realized, Applicants request that the Examiner withdraw this rejection of the claims.

REJECTION UNDER 35 U.S.C. § 103

1. CLAIMS 1-2, 4, 6, 13, 15-17, 22-23, 27-28, 31-32, 41, AND 57-62

The Examiner has rejected claims 1-2, 4, 6, 13, 15-17, 22-23, 27-28, 31-32, 41, and 57-62 under 35 U.S.C. § 103 as allegedly being unpatentable over U.S. Patent No. 6,615,172 to Bennett et al. ("Bennett") in view of "A Distributed Architecture for Cooperative Spoken Dialogue Agents with Coherent Dialogue State and History to Lin et al. ("Lin"). This rejection is improper for at least the reason that Bennett and Lin, either alone or in combination, fail to disclose, teach, or suggest each and every feature of the claimed invention.

More particularly, neither Bennett nor Lin, either alone or in combination, disclose, teach, or suggest at least the feature of "a speech recognition engine configured to recognize at least one of words or phrases from the electronic signal using at least the data received from the plurality of domain agents, wherein the data used by the speech recognition engine

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includes a plurality of dictionary and phrase entries that are dynamically updated based on at least a history of a current dialog and one or more prior dialogs associated with the user," as recited in independent claim 1, for example.

The Examiner alleges that Bennett discloses a "speech recognizer for recognizing query words/phrases that relies on context data from different domains." The Examiner further alleges that Bennett "teaches an acoustic recognition dictionary that varies based on a current dialog context," and further that "Bennett teaches that based upon user's state and context during an interactive session, grammars and dictionaries are dynamically loaded into a speech recognizer." Office Action, pages 3 and 11. However, although Bennett generally indicates that "specific grammars are dynamically loaded or actively configured as the current grammar according to the user's context," Bennett nonetheless fails to disclose, teach, or suggest dynamically updating "a plurality of dictionary and phrase entries [used by the speech recognition engine] based on at least a history of a current dialog and one or more prior dialogs associated with the user."

That is, even assuming *arguendo* that the Examiner has correctly characterized Bennett as loading grammars to the speech recognition engine based on the user's current context (or dialog), Bennett does not disclose, teach, or suggest further updating the information used by the speech recognizer based on a history of one or more ***prior*** dialogs associated with the user. For example, Bennett specifically states that the grammars used in the speech recognition process are discarded once recognition of the current user utterance has completed. In particular, Bennett indicates that "[o]nce the user's speech is recognized, . . . the speech engine is un-initialized," wherein un-initialization includes deleting "all the objects created" when the speech recognition engine was initialized, and further clearing all memory allocated when the speech recognition engine was initialized.

Thus, because Bennett flushes the data used by the speech recognition engine when recognition for a current utterance is complete, Bennett necessarily fails to dynamically update the data used in the speech recognition engine based on both the current dialog and one or more prior dialogs. In particular, if the data used by the speech recognition engine is deleted after recognition of the current utterance has completed, at best, the data that the speech

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recognition engine in Bennett uses could only be updated based on a history of a current dialog. In contrast, independent claim 1 recites that "the data used by the speech recognition engine includes a plurality of dictionary and phrase entries that are dynamically updated based on at least a history of a current dialog ***and*** one or more prior dialogs."

Furthermore, to the extent that the Examiner alleges that "[t]here is no mention in Bennett that this status/context history is deleted upon recognition," Applicants note that the Examiner nonetheless has the burden of establishing that the references relied upon disclose, teach, or suggest using the status/context history from the current dialog and prior dialogs to dynamically update the data used by the speech recognition engine. In the absence of such a disclosure, teaching, or suggestion, the mere possibility that such data may exist is insufficient to meet the requisite burden. Accordingly, for at least the foregoing reasons, Bennett fails to disclose, teach, or suggest at least the foregoing feature recited in independent claim 1.

Lin fails to cure the foregoing deficiency of Bennett for at least the reason that the Examiner only relies upon "Bennett . . . for the domain-dependent speech recognition." Office Action, page 3. Furthermore, for at least the reasons Applicants have previously noted, Lin specifically describes speech recognition as a domain-independent procedure that does not utilize dialogue state and history information. Therefore, for at least the foregoing reasons, Bennett and Lin, either alone or in combination, fail to disclose, teach, or suggest at least the foregoing feature recited in independent claim 1. The rejection is therefore improper and should be withdrawn.

In addition to the reasons given above, neither Bennett nor Lin, either alone or in combination, disclose, teach, or suggest at least the feature of "an agent architecture configured to communicatively couple services of each of an agent manager, a system agent, the plurality of domain agents, and an agent library that includes one or more utilities that can be used by the system agent and the plurality of domain agents," as recited in independent claim 1, for example. The Examiner alleges that "Lin does teach the complete agent architecture" recited in the claims. To support this allegation, the Examiner alleges that Lin describes "a user interface agent manager that corresponds to the claimed agent manager," "a facilitator/switcher that . . . corresponds to the claimed system agent," "a plurality of spoken

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dialog agents . . . that correspond to the claimed plurality of domain agents," and "a database accessible by the agents."

Even assuming *arguendo* that the Examiner has correctly characterized Lin (which Applicants do not concede), the rejection is facially improper because the agent architecture recited in independent claim 1 includes specific components that the Examiner has not even alleged Lin to disclose, teach, or suggest. For example, in addition to an agent manager, a system agent, and a plurality of domain agents, the claimed agent architecture further recites "an agent library," which may include one or more utilities that can be used by the system agent and the plurality of domain agents. As such, because the Examiner has failed to allege, let alone establish, that the references relied upon disclose, teach, or suggest each and every feature of the claimed agent architecture, the rejection is improper and should be withdrawn.

As such, for at least the foregoing reasons, Bennett and Lin, either alone or recited in independent claim 1, for example. The rejection is therefore further improper and should be withdrawn for at least this additional reason.

Independent claim 28 includes features similar to those set forth in independent claim 1. Dependent claims 2, 4, 6, 13, 15-17, 22-23, 27, 31-32, 41, and 57-62 depend from and add features to one of independent claims 1 and 28. Thus, the rejection of these claims is likewise improper and must be withdrawn for at least the same reasons.

2. CLAIM 2

In addition to the above-discussed distinctions regarding independent claim 1, neither Bennett nor Lin, either alone or in combination, disclose, teach, or suggest at least the feature of "an event manager configured to . . . provide a multi-threaded environment configured to enable the natural language speech processing system to provide a plurality of real-time responses to a plurality of questions or commands in a plurality of different contexts across a plurality of overlapping or interleaved sessions with the user," as recited in claim 2, for example. The Examiner alleges that "it is the facilitator that corresponds to event manager, but works in combination with the user interface as one of its components." Office Action, page 6.

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However, although Lin generally describes a system that can support multiple different domains "to maintain consistent dialogue across concurrent topics," Lin does not disclose, teach, or suggest that the system includes "a multi-threaded environment configured to enable the natural language speech processing system to provide a plurality of real-time responses to a plurality of questions or commands in a plurality of different contexts across ***a plurality of overlapping or interleaved sessions*** with the user." Rather, Lin describes a system in which only one domain can be active at any given time, with concurrent domains only being supported through a domain switching protocol that transfers dialogue state and history information. *See* Lin, Section 3. Thus, the system described in Lin would not be able to provide real-time responses to a plurality of questions or commands in various different contexts "across a plurality of overlapping or interleaved user sessions." Instead, because Lin can only support multiple concurrent sessions using the domain switching protocol, Lin cannot provide real-time responses across all of the overlapping sessions because "the dialogue state and history is no longer stored in the SDA after it is disconnected." Lin, Section 3.1. Bennett fails to cure at least this deficiency of Lin.

Therefore, for at least the reasons given above, Bennett and Lin, either alone or in combination, fail to disclose, teach, or suggest at least the feature of "an event manager configured to . . . provide a multi-threaded environment configured to enable the natural language speech processing system to provide a plurality of real-time responses to a plurality of questions or commands in a plurality of different contexts across a plurality of overlapping or interleaved sessions with the user," as recited in claim 2, for example. The rejection is therefore improper and should be withdrawn.

3. CLAIMS 7-8, 10-12, 14, 18-21, 24-26, 29-30, 33-39, AND 42-43

The Examiner has also rejected each of claims 7-8, 10-12, 14, 18-21, 24-26, 29-30, 33-39 and 42-43 under 35 U.S.C. § 103 as allegedly being unpatentable over the combination of Bennett and Lin, and further in view of one or more additional references. In particular, the Examiner has rejected (1) claims 7-8, 10-12, 30, and 38-39 over Bennett in view of Lin, and further in view of U.S. Patent No. 6,937,977 to Gerson ("Gerson"), (2) claims 14 and 33-37 over

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Bennett in view of Lin, and further in view of U.S. Patent No. 6,185,535 to Hedin et al. ("Hedin"), (3) claims 18, 20-21, and 29 over Bennett in view of Lin, and further in view of U.S. Patent No. 6,420,975 to DeLine et al. ("DeLine"), (4) claims 19 and 38-39 over Bennett in view of Lin and further in view of DeLine and yet further in view of Gerson, and (5) claims 24-26 and 42-43 over Bennett in view of Lin and further in view of U.S. Patent No. 6,980,092 to Turnbull et al. ("Turnbull"). Each of these rejections are improper for at least the reason that the references relied upon, either alone or in combination, fail to disclose, teach, or suggest each and every feature of the claimed invention.

More particularly, for at least the reasons discussed above, neither Bennett nor Lin, either alone or in combination, disclose, teach, or suggest at least the features of "a speech recognition engine configured to recognize at least one of words or phrases from the electronic signal using at least the data received from the plurality of domain agents, wherein the data used by the speech recognition engine includes a plurality of dictionary and phrase entries that are dynamically updated based on at least a history of a current dialog and one or more prior dialogs associated with the user," as recited in independent claim 1, for example.

Moreover, for at least the further reasons discussed above, neither Bennett nor Lin, either alone or in combination, disclose, teach, or suggest at least the features of "an agent architecture configured to communicatively couple services of each of an agent manager, a system agent, the plurality of domain agents, and an agent library that includes one or more utilities that can be used by the system agent and the plurality of domain agents," as recited in independent claim 1, for example.

Each of Gerson, Hedin, DeLine, and Turnbull fail to cure at least the foregoing deficiencies of the combination of Bennett and Lin. Accordingly, for at least the foregoing reasons, the references relied upon, either alone or in combination, fail to disclose, teach, or suggest each and every feature recited in independent claim 1.

Independent claim 28 includes features similar to those set forth in independent claim 1. Dependent claims 7-8, 10-12, 14, 18-21, 24-26, 29-30, 33-39, and 42-43 depend from and add features to one of independent claims 1 and 28. Thus, the rejections of these claims are improper and should be withdrawn for at least the foregoing reasons.

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NEW CLAIMS 63-72

As indicated above, the Examiner has failed to establish that the references relied upon, either alone or in combination, disclose, teach, or suggest each and every feature of amended independent claim 28. New claims 63-72 depend from and add features to amended independent claim 28. Thus, newly added claims 63-72 are allowable over the references relied upon for at least the same reasons discussed in further detail above.

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CONCLUSION

Having addressed each of the foregoing rejections, it is respectfully submitted that a full and complete response has been made to the outstanding Office Action. As such, the application is in condition for allowance. Notice to that effect is respectfully requested.

If the Examiner believes, for any reason, that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at the number provided.

Date: **June 16, 2009**

Respectfully submitted,

By: _____

Syed Jafar Ali
Registration No. 58,780

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Page 00444

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS :	Robert A. KENNEWICK *et al.*	CONFIRMATION NO.:	5659
SERIAL NUMBER :	10/618,633	EXAMINER:	James S. Wozniak
FILING DATE :	July 15, 2003	ART UNIT:	2626
FOR :	MOBILE SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE		

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicants hereby make of record in the above-identified application the documents listed on the attached Form PTO-1449.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This Supplemental Information Disclosure Statement is being filed more than three months after the filing date of a national application other than a continued prosecution application under 37 C.F.R. §1.53(d), or more than three months after the date of entry of the national stage as set forth in 37 C.F.R. §1.491 in an international application, and after the mailing date of the first Office Action on the merits, but before the mailing date of any of a Final Action under 37 C.F.R. §1.113, a Notice of Allowance under 37 C.F.R. §1.311, or an action that otherwise closes prosecution in the application. 37 C.F.R. §1.97(c).

These documents were cited by the U.S. Patent Office in co-pending Application Serial No. 11/200,164, filed August 10, 2005, in an Office Action dated May 20, 2009. I hereby certify that no item of information contained in this Supplemental Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to my knowledge after making reasonable inquiry, no item of information contained in this Supplemental Information Disclosure Statement was known to any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing of this Supplemental Information Disclosure Statement. 37 C.F.R. §1.97(e)(2).

Google Exhibit 1019
Page 00446

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449.

Respectfully submitted,

PILLSB URYWINTHROP SHAW PITTMAN LLP

By _____
Syed Jafar Ali
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Telefax: (703) 770-7901

Dated: June 16, 2009

INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Docket Number	Application Number
	090611-0312470	10/618,633
	Applicant(s)	
	Robert A. KENNEWICK *et al.*	
	Filing Date	Group Art Unit
Form PTO-1449	July 15, 2003	2626

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A	5,500,920	03/19/1996	Kupiec	395	2.79	
	B	5,774,859	06/30/1998	Houser *et al.*	704	275	

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translations YES	Translations NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Electronic Patent Application Fee Transmittal

Application Number:	10618633
Filing Date:	15-Jul-2003
Title of Invention:	Mobile systems and methods for responding to natural language speech utterance
First Named Inventor/Applicant Name:	Robert A. Kennewick
Filer:	Syed Jafar Ali/Miriam E. Nelsen
Attorney Docket Number:	090611-0312470

Filed as Large Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Claims in excess of 20	1202	10	52	520
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
			Total in USD ($)	**520**

Electronic Acknowledgement Receipt

EFS ID:	5528665
Application Number:	10618633
International Application Number:	
Confirmation Number:	5659
Title of Invention:	Mobile systems and methods for responding to natural language speech utterance
First Named Inventor/Applicant Name:	Robert A. Kennewick
Customer Number:	00909
Filer:	Syed Jafar Ali/Miriam E. Nelsen
Filer Authorized By:	Syed Jafar Ali
Attorney Docket Number:	090611-0312470
Receipt Date:	16-JUN-2009
Filing Date:	15-JUL-2003
Time Stamp:	18:48:11
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$520
RAM confirmation Number	4678
Deposit Account	033975
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		090611-0312470_Response_NonFinal_OA.pdf	649502 fe08ac5864992275c8ele7d1d1800177d8dd934d0	yes	23

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment/Req. Reconsideration-After Non-Final Reject	1	1
	Claims	2	13
	Applicant Arguments/Remarks Made in an Amendment	14	23

Warnings:

Information:

2		090611-0312470_SIDS_1449.pdf	76526 c47392a27529a380676d7ff24feb5086164b1542	yes	4

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Transmittal Letter	1	3
	Information Disclosure Statement (IDS) Filed (SB/08)	4	4

Warnings:

Information:

3	Fee Worksheet (PTO-875)	fee-info.pdf	30170 437bd5d7f1281807c64d32164d42c73831d1266b	no	2

Warnings:

Information:

Total Files Size (in bytes):	756198

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/618,633	07/15/2003	Robert A. Kennewick	090611-0312470	5659

9009 7590 09/15/2009
PILLSBURY WINTHROP SHAW PITTMAN, LLP
P.O. BOX 10500
MCLEAN, VA 22102

EXAMINER	
WOZNIAK, JAMES S	

ART UNIT	PAPER NUMBER
2626	

MAIL DATE	DELIVERY MODE
09/15/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/618,633	KENNEWICK ET AL.	
	Examiner	Art Unit	
	JAMES S. WOZNIAK	2626	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *16 June 2009*.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1,2,4,6-8,10-39,41-43 and 57-72* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1 and 28* is/are rejected.

7)☒ Claim(s) *-2, 4, 6-8, 10-27, 29-39, 41-43, and 57-72* is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *15 July 2003* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

Response to Amendment

1. In response to the office action from 3/16/2009, the applicant has submitted an amendment, filed 6/16/2009, amending independent claims 1 and 28, while adding new claims 63-72 and arguing to traverse the art rejection based on the amended limitations regarding a plurality of dictionary and phrase entries that are dynamically updated based on a history of a current dialog and one or more prior dialogs associated with the user and a particular agent library description *(Amendment, Pages 16-19)*. Applicant's arguments and amendments have been fully considered, and claims 1-2, 4, 6-8, 10-39, 41-43, 57-72 have been noted as containing allowable subject matter as per the below provided reasons.

2. In response to the previous claim objections, the applicants argue that the objection of claim 29 is improper because claim 28 is not included under the 35 U.S.C. 101 rejection *(Amendment, Page 14)*. In response, the examiner notes that unamended claim 28 recites a method not relying on any type of physical hardware and providing no transformation and should have been noted as being non-statutory. With the current amendment, however, the applicants have specified a vehicle-based computer device, which ties the claimed method to another statutory class and directs the claim towards a statutory method. As such, the claim objection has been withdrawn and the applicant's arguments are moot.

3. In response to the applicants' arguments directed towards the objection of claims 1-2, 4, 6-7, 10-27, and 57-62 regarding the omission of these claims in the section heading *(Amendment, Page 15)*, the examiner notes that this omission was a typographical oversight and that these claims should have been included in the heading as they were clearly discussed in the body of the objection section. The applicants have nonetheless responded to this alleged omitted objection by arguing that "configured to" does indeed positively recite the functional limitations associated with the claimed structures *(Amendment, Page 15)*. In response, the examiner notes that merely stating that the functional limitations which define the claimed elements are "configured to" be performed does not actively recite that they will necessarily be performed. The assumption that the functions are actively performed was made by the examiner merely for the purposes of advancing prosecution to treat the functional limitations properly with the assumption that amendments would be made to overcome the objections. As these amendments have not been made, the previous objection has been maintained.

4. As no terminal disclaimer has been filed *(Amendment, Page 15)*, the previous Double Patenting rejection is maintained.

5. As the independent system/method claims *(i.e., claims 1 and 28)* have been amended to explicitly include a vehicle-based computer device, the claims are tied to another statutory class and recite specific hardware structure and therefore are directed towards statutory subject matter. Thus, the previous 35 U.S.C. 101 rejections have been withdrawn.

Claim Objections

6. **Claims 1-2, 4, 6-8, 10-27, and 57-62** are objected to because of the following informalities:

Claims 1-2, 4, 6-8, 10-27, and 57-62 recite or are dependent upon claims that recite various steps/elements "configured to" perform certain functions. It is not certain whether these functions are part of the claim because they are not positively recited only "configured to" perform them. These functions will be considered as being actively performed for the application of the prior art of record.

Double Patenting

7. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re*

Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

8. **Claims 1 and 28** are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claim 1 of U.S. Patent No. 7,398,209 in view of Lin et al *("A Distributed Architecture for Cooperative Spoken Dialogue Agents with Coherent Dialogue State and History," 1999)*. Although the conflicting claims are not identical, they are not patentably distinct from each other because both applications essentially refer to the same system/method that relies upon context information for performing speech recognition. Although the present application additionally recites an event manager in the independent claims, this element would obvious in view of the teachings of Lin et al. Lin teaches discloses a user interface agent manager architecture that enables query forwarding to a particular dialog agent for answer retrieval *(Sections 2.2- 3.1 and Fig. 3)* for the benefit of handling dialog across multiple subject domains (or applications) efficiently and intelligently *(Lin, Section 1)*. Although

'209 features additional steps/means: "Omission of an element and its function is an obvious expedient if the remaining elements perform the same functions as before". *In re Karlson*, 136 USPQ 184 (1963). Thus, Claims 1 and 28 are not patently distinct from claim 1 of US 7,398,209.

Allowable Subject Matter

9. **Claims 1-2, 4, 6-8, 10-39, 41-43, and 57-72** would be allowable if rewritten to overcome the preceding objection and a terminal disclaimer was filed in order to overcome the preceding obviousness-type double patenting rejection.

10. The following is a statement of reasons for the indication of allowable subject matter:

With respect to **Claims 1 and 28**, the prior art of record fails to explicitly teach or fairly suggest, either taken individually or in combination, a respective vehicle-based system and method as is set forth in these claims that features means/steps of receiving a natural language speech input from a user, processing a natural language speech input using a speech recognition engine, and a specific parser, and a specific agent architecture in combination with the speech recognition engine including a plurality of dictionary and phrase entries that are dynamically updated based on at least combined histories from a present dialog and other prior dialogs and the agent architecture featuring a agent library that includes one or more utilities that can be used by the system agent and the plurality of domain agents.

Most pertinent prior art:

Although Bennett et al *(U.S. Patent: 6,615,172)* evidences that a means for receiving and coding a speech input *(Col. 10, Line 54- Col. 11, Line 17; and Col. 15, Line 53- Col. 16, Line 21)*, a natural language processor *(Col. 24, Line 46- Col. 25, Line 67; Col. 27, Lines 17-51; and Col. 29, Line 30- Col. 30, Line 7; and agent, Col. 10, Line 54- Col. 11, Line 17)* that comprises a speech recognizer for recognizing query words/phrases that relies on user context data from different domains *(Col. 7, Lines 17-51; and Col. 27, Lines 17-67)* and a parser (*Col. 11, Line 59- Col. 12, Line 10; Col. 17, Lines 28-67; and Col. 27, Lines 17-51)*, and a shared architecture between system components *(Col. 11, Lines 34-38)* is well known in the art, Bennett is deficient in that his invention only relies on a single past history of a current conversation *(Col. 27, Lines 17-67)*, whereas the presently claimed invention relies on a combined history of current conversations and prior different dialogs between the user and the system. Bennett also fails to teach the cited agent architecture. Thus, Bennett fails to explicitly teach or fairly suggest the applicants' invention as defined by claims 1 and 28.

Although Lin et al *("A Distributed Architecture for Cooperative Spoken Dialogue Agents with Coherent Dialogue State and History," 1999)* overcomes some of the deficiencies of Bennett by teaching an agent architecture for use in a natural language dialog system that features a user interface agent manager that corresponds to the claimed agent manager *(Section 2.2-3.1 and Fig. 3)*, a facilitator/switcher that enables dialog system processes through dialog/state history that corresponds to the claimed system agent *(Figs. 2 and 3)*, a plurality of spoken dialog agents *(SDAs)* that correspond to the claimed plurality of domain agents *(Fig. 3)*, and a database accessible by the agents *(Fig. 3)*, Lin's agent database shown in Fig. 3 does not feature utilities that can be used by the system agent in a vehicle system and his speech

recognizer does not rely on the applicants' combined histories for recognition updating. Thus, Lin individually and taken in combination with Bennett, fails to teach the applicants' invention defined by claims 1 and 28.

The remaining dependent claims further limit independent claims containing allowable subject, and thus, also contain allowable subject matter by virtue of their dependency.

Conclusion

11. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

12. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: See PTO-892.

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to James S. Wozniak whose telephone number is (571) 272-7632. The examiner can normally be reached on M-Th, 7:30-5:00, F, 7:30-4, Off Alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richemond Dorvil can be reached at (571) 272-7602. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/James S. Wozniak/
Primary Examiner, Art Unit 2626

Notice of References Cited	Application/Control No. 10/618,633	Applicant(s)/Patent Under Reexamination KENNEWICK ET AL.	
	Examiner JAMES S. WOZNIAK	Art Unit 2626	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-6,742,021	05-2004	Halverson et al.	709/218
*	B	US-5,892,813	04-1999	Morin et al.	379/88.01
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	10618633	KENNEWICK ET AL.
	Examiner	Art Unit
	JAMES S WOZNIAK	2626

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	08/03/2009								
	1	✓								
	2	O								
	3	-								
	4	O								
	5	-								
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	24	O								
	25	O								
	26	O								
	27	O								
	28	✓								
	29	O								
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	31	O								
	32	O								
	33	O								
	34	O								
	35	O								
	36	O								

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CLAIM		DATE								
Final	Original	08/03/2009								
	37	O								
	38	O								
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	40	-								
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	43	O								
	44	-								
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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	10618633	KENNEWICK ET AL.
	Examiner	Art Unit
	JAMES S WOZNIAK	2626

SEARCHED

Class	Subclass	Date	Examiner
704	270, 270.1, 275, 257	6/18/09	/JW/
709	202	6/18/09	/JW/

SEARCH NOTES

Search Notes	Date	Examiner
EAST Update Search (see attached printout)	6/18/09	/JW/

INTERFERENCE SEARCH

Class	Subclass	Date	Examiner

	/JAMES S WOZNIAK/ Primary Examiner.Art Unit 2626

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Page 00468

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S82	1415	(updat$4 modif$6 adjust$3 adapt$4 select$3 choos$3 pick$3) near7 (recogni$5 grammar dictionary lexicon) near7 (context history)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/18 12:43
S84	245	(updat$4 modif$6 adjust$3 adapt$4 select$3 choos$3 pick$3) near7 (recogni$5 grammar dictionary lexicon) near7 (context history) near7 (conversat$5 dialog$3 user)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/18 12:46
S83	49	(updat$4 modif$6 adjust$3 adapt$4 select$3 choos$3 pick$3) near7 (recogni$5 grammar dictionary lexicon) near7 (context history) near7 (conversat$5 dialog$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/18 12:46
S85	38	(updat$4 modif$6 adjust$3 adapt$4 select$3 choos$3 pick$3) near7 (recogni$5 grammar dictionary lexicon) near7 (context history) near7 (conversat$5 dialog$3 user) with (past prior previous preceding other	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/18 13:09

		another)				
S86	2	(kennewick).in. and lerner and "704"/$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/18 13:15
L1	7120	(704/270 704/270.1 704/275 704/257 709/202).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/18 15:06
L2	3	10/618633	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/18 15:11

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INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Docket Number	Application Number
	090611-0312470	10/618,633
	Applicant(s)	
	Robert A. KENNEWICK *et al.*	
	Filing Date	Group Art Unit
Form PTO-1449	July 15, 2003	2626

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/J.W./	A	5,500,920	03/19/1996	Kupiec	395	2.79	
/J.W./	B	5,774,859	06/30/1998	Houser *et al.*	704	275	

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translations YES	Translations NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

EXAMINER	DATE CONSIDERED
/James Wozniak/	06/18/2009

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Docket Number	Application Number
	090611-0312470	10/618,633
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Form PTO-1449	July 15, 2003	2626

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A	6,721,001	04/13/2004	Berstis	348	231.3	
	B	6,990,513	01/24/2006	Belfiore *et al.*	709	203	
	C	7,146,319	12/05/2006	Hunt	704	254	
	D	7,493,559	02/17/2009	Wolff *et al.*	715	727	
	E	2005/0033574	02/10/2005	Kim *et al.*	704	251	

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translations YES	Translations NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Electronic Patent Application Fee Transmittal

Application Number:	10618633
Filing Date:	15-Jul-2003
Title of Invention:	Mobile systems and methods for responding to natural language speech utterance
First Named Inventor/Applicant Name:	Robert A. Kennewick
Filer:	Syed Jafar Ali/Susan Trader
Attorney Docket Number:	090611-0312470

Filed as Large Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
Submission- Information Disclosure Stmt	1806	1	180	180
		Total in USD ($)		**180**

Electronic Acknowledgement Receipt

EFS ID:	6118473
Application Number:	10618633
International Application Number:	
Confirmation Number:	5659
Title of Invention:	Mobile systems and methods for responding to natural language speech utterance
First Named Inventor/Applicant Name:	Robert A. Kennewick
Customer Number:	00909
Filer:	Syed Jafar Ali/Susan Trader
Filer Authorized By:	Syed Jafar Ali
Attorney Docket Number:	090611-0312470
Receipt Date:	22-SEP-2009
Filing Date:	15-JUL-2003
Time Stamp:	13:16:48
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$180
RAM confirmation Number	9733
Deposit Account	033975
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)

1		0312470_SIDS.pdf	121153 34ed11dcf762e61e348be80c1cc413a14cf53a99	yes	4

Multipart Description/PDF files in .zip description		
Document Description	**Start**	**End**
Transmittal Letter	1	3
Information Disclosure Statement (IDS) Filed (SB/08)	4	4

Warnings:

Information:

2	Fee Worksheet (PTO-875)	fee-info.pdf	30145 6cff9366f926c0e24bb8e6d95d342d200db32c26	no	2

Warnings:

Information:

Total Files Size (in bytes):	151298

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS :	Robert A. KENNEWICK *et al.*	CONFIRMATION NO.:	5659
SERIAL NUMBER :	10/618,633	EXAMINER:	James S. Wozniak
FILING DATE :	July 15, 2003	ART UNIT:	2626
FOR :	MOBILE SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE		

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicants hereby make of record in the above-identified application the documents listed on the attached Form PTO-1449.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This Supplemental Information Disclosure Statement is being filed more than three months after the filing date of a national application other than a continued prosecution application under 37 C.F.R. §1.53(d), or more than three months after the date of entry of the

national stage as set forth in 37 C.F.R. §1.491 in an international application, and after the mailing date of any of a Final Action under 37 C.F.R. §1.113, a Notice of Allowance under 37 C.F.R. §1.311, or an action that otherwise closes prosecution in the application, but on or before payment of the Issue Fee. 37 C.F.R. §1.97(d).

Document C was cited by the U.S. Patent Office in co-pending Application Serial No. 11/513,269, filed August 31, 2006, in a Notice of Allowability dated June 22, 2009. Documents A, B, and D were cited by the U.S. Patent Office in co-pending Application Serial No. 11/212,693, filed August 29, 2005, in an Office Action dated July 7, 2009. Document E was cited by the U.S. Patent Office in co-pending Application Serial No. 11/200,164, filed August 10, 2005, in an Office Action dated July 10, 2009. I hereby certify that no item of information contained in this Supplemental Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to my knowledge after making reasonable inquiry, no item of information contained in this Supplemental Information Disclosure Statement was known to any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing of this Supplemental Information Disclosure Statement. 37 C.F.R. §1.97(e)(2).

Please charge the $180.00 fee [37 C.F.R. §1.17(p)] to Deposit Account No. 03-3975. In addition, please charge any fee deficiencies, or credit any overpayment, to Deposit Account No. 03-3975 as needed to ensure consideration of the Supplemental Information Disclosure Statement.

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Page 00478

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449.

Respectfully submitted,

PILLSBURY WINTHROP SHAW PITTMAN LLP

By_____
Syed Jafar Ali
Registration No.: 58,780

Customer No.
00909

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McLean, Virginia 22102
Telephone: (703) 770-7900
Telefax: (703) 770-7901

Dated: September 22, 2009

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS :	Robert A. KENNEWICK et al.	CONFIRMATION NO.:	5659
SERIAL NUMBER :	10/618,633	EXAMINER:	James S. Wozniak
FILING DATE :	July 15, 2003	ART UNIT:	2626
FOR :	MOBILE SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE		

RESPONSE TO FINAL OFFICE ACTION

Mail Stop AF
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

In response to the Final Office Action mailed **September 15, 2009**, please amend the above-identified application as follows:

Amendments to the Claims begin on page **2** of this paper.

Remarks/Arguments begin on page **15** of this paper.

It is not believed that extensions of time or fees for net addition of claims are required beyond those that may otherwise be provided for in documents accompanying this paper. However, if additional extensions of time are necessary to prevent abandonment of this application, then such extensions of time are hereby petitioned for under 37 C.F.R. § 1.136(a), and any fees required therefore (including fees for net addition of claims) are hereby authorized to be charged to our Deposit Account No. 033975 (**Ref. No. 090611-0312470**).

AMENDMENT

Please replace all prior versions and listings of claims with the following listing of claims.

LISTING OF CLAIMS:

1. (**Currently Amended**) A mobile system responsive to a user generated natural language speech utterance, comprising:

a speech unit connected to a computer device on a vehicle, wherein the speech unit receives ~~is configured to receive~~ a natural language speech utterance from a user and converts ~~convert~~ the received natural language speech utterance into an electronic signal; and

a natural language speech processing system connected to the computer device on the vehicle, wherein the natural language speech processing system ~~is configured to receive~~ receives, ~~process~~ processes, and ~~respond~~ responds to the electronic signal using data received from a plurality of domain agents, wherein the natural language speech processing system includes:

a speech recognition engine that recognizes ~~configured to recognize~~ at least one of words or phrases from the electronic signal using at least the data received from the plurality of domain agents, wherein the data used by the speech recognition engine includes a plurality of dictionary and phrase entries that are dynamically updated based on at least a history of a current dialog and one or more prior dialogs associated with the user;

a parser that interprets ~~configured to interpret~~ the recognized words or phrases, wherein the parser uses at least the data received from the plurality of domain agents to interpret the recognized words or phrases, wherein the parser interprets ~~is configured to interpret~~ the recognized words or phrases by:

determining a context for the natural language speech utterance;

selecting at least one of the plurality of domain agents based on the determined context; and

transforming the recognized words or phrases into at least one of a question or a command, wherein the at least one question or command is

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formulated in a grammar that the selected domain agent uses to process the formulated question or command; and

an agent architecture that ~~configured to~~ communicatively ~~couple~~ couples services of each of an agent manager, a system agent, the plurality of domain agents, and an agent library that includes one or more utilities that can be used by the system agent and the plurality of domain agents, wherein the selected domain agent uses ~~is configured to use~~ the communicatively coupled services to create a response to the formulated question or command and format the response for presentation to the user.

2. (**Currently Amended**) The mobile system according to claim 1, wherein the natural language speech processing system further includes an event manager ~~configured to~~ that:

sends ~~send~~ and receives ~~receive~~ events to a plurality of components of the natural language speech processing system to coordinate interaction among the plurality of components of the natural language speech processing system; and

provides ~~provide~~ a multi-threaded environment that enables ~~configured to enable~~ the natural language speech processing system to provide a plurality of real-time responses to a plurality of questions or commands in a plurality of different contexts across a plurality of overlapping or interleaved sessions with the user.

3. (**Cancelled**)

4. (**Currently Amended**) The mobile system according to claim 1, wherein the response includes a text string and the natural language speech processing system further includes a text to speech engine that creates ~~configured to create~~ an encoded speech message to be annunciated to the user.

5. (**Cancelled**)

6. (**Previously Presented**) The mobile system according to claim 1, wherein the selected domain agent includes data associated with at least one of driving directions, travel information, restaurant information, systems information for the vehicle, safety information, or entertainment information.

7. (**Previously Presented**) The mobile system according to claim 1, wherein the selected domain agent includes data for communicating with one or more devices.

8. (**Previously Presented**) The mobile system according to claim 7, wherein the data for communicating with the one or more devices includes data for controlling the one or more devices.

9. (**Cancelled**)

10. (**Previously Presented**) The mobile system according to claim 7, wherein at least one of the one or more devices is connected to the vehicle.

11. (**Previously Presented**) The mobile system according to claim 10, wherein at least one of the speech unit or the natural language speech processing system is located remotely from the vehicle and connected to the computer device on the vehicle through a communication link.

12. (**Previously Presented**) The mobile system according to claim 10, wherein the at least one device connected to the vehicle includes at least one of a navigation system, a monitoring system, a security system, a control system, or a media system connected to the vehicle.

13. (**Previously Presented**) The mobile system according to claim 1, wherein the communicatively coupled services include at least one remotely located service and the selected domain agent includes data for controlling or communicating with the remotely located service.

14. (**Previously Presented**) The mobile system according to claim 13, wherein the remotely located service includes at least one of a payment service provider, a customer relationship management system, a specialized service, a location service, or an emergency service.

15. (**Currently Amended**) The mobile system according to claim 13, wherein the speech unit and the natural language speech processing system each include respective transceivers that ~~configured to~~ communicate via a communication network.

16. (**Original**) The mobile system according to claim 15, wherein the communication network is a wide area wireless network.

17. (**Previously Presented**) The mobile system according to claim 15, wherein the transceiver is a wide-area RF transceiver.

18. (**Currently Amended**) The mobile system according to claim 1, wherein the speech unit includes a speech coder that converts ~~configured to convert~~ the natural language speech utterance into the electronic signal, an array microphone that receives ~~configured to receive~~ the natural language speech utterance, and a filter that optimizes ~~configured to optimize~~ a signal to noise ratio of the electronic signal.

19. (**Currently Amended**) The mobile system according to claim 18, wherein the filter employs ~~is configured to employ~~ adaptive echo cancellation to optimize the signal to noise ratio of the electronic signal.

20. (**Original**) The mobile system according to claim 18, wherein the array microphone is at least a one-dimensional array.

21. (**Currently Amended**) The mobile system according to claim 18, wherein the speech coder uses ~~is configure to use~~ an adaptive lossy audio compression to convert the natural language utterance into the electronic signal.

22. (**Previously Presented**) The mobile system according to claim 1, wherein the speech unit is located remotely from the natural language speech processing system.

23. (**Previously Presented**) The mobile system according to claim 1, further comprising at least one of a display or a keypad.

24. (**Currently Amended**) The mobile system according to claim 10, further comprising a telematics control unit that interfaces ~~configured to interface~~ with the at least one device connected to the vehicle.

25. (**Previously Presented**) The mobile system according to claim 24, wherein at least one of the speech unit or the natural language speech processing system is embedded in the telematics control unit.

26. (**Previously Presented**) The mobile system according to claim 1, wherein at least one of the speech unit or the natural language speech processing system is embedded in at least one of the vehicle, a handheld device connected to the vehicle, a fixed computer device connected to the vehicle, or a mobile computer device connected to the vehicle.

27. (**Previously Presented**) The mobile system according to claim 1, wherein the communicatively coupled services include at least one shared network resource.

28. (**Currently Amended**) A method responsive to a user generated natural language speech utterance, comprising:

receiving, at a speech unit connected to a computer device on a vehicle, a natural language speech utterance from a user, wherein the speech unit converts ~~is configured to convert~~ the received natural language speech utterance into an electronic signal;

recognizing, at a speech recognition engine connected to the computer device on the vehicle, at least one of words or phrases from the electronic signal, wherein the speech recognition engine uses ~~is configured to use~~ at least data received from a plurality of domain agents to recognize the words or phrases, wherein the data used by the speech recognition engine includes a plurality of dictionary and phrase entries that are dynamically updated based on at least a history of a current dialog and one or more prior dialogs associated with the user;

determining, at a parser connected to the computer device on the vehicle, a context for the natural language speech utterance;

selecting, at the parser connected to the computer device on the vehicle, at least one of the plurality of domain agents based on the determined context;

transforming, at the parser connected to the computer device on the vehicle, the recognized words or phrases into at least one of a question or a command, wherein the at least one question or command is formulated in a grammar that the selected domain agent uses to process the formulated question or command; and

forwarding the formulated question or command to an agent architecture connected to the computer device on the vehicle, wherein the agent architecture ~~is configured to~~ communicatively ~~couple~~ couples services of each of an agent manager, a system agent, the plurality of domain agents, and an agent library that includes one or more utilities that can be used by the system agent and the plurality of domain agents, wherein the selected domain agent uses ~~is configured to use~~ the communicatively coupled services to create a response to the formulated question or command and format the response for presentation to the user.

29. (**Currently Amended**) The method according to claim 28, wherein the speech unit includes an array microphone that receives ~~configured to receive~~ the natural language speech utterance, a speech coder that converts ~~configured to convert~~ the natural language speech utterance into the electronic signal, and a filter that optimizes ~~configured to optimize~~ a signal to noise ratio of the electronic signal.

30. (**Previously Presented**) The method according to claim 28, the wherein the selected domain agent includes data for controlling or communicating with at least one of a navigation system, a monitoring system, a security system, a control system, or a media system connected to the vehicle.

31. (**Previously Presented**) The method according to claim 28, wherein the selected domain agent includes data associated with at least one of driving directions, travel information, restaurant information, systems information for the vehicle, safety information, or entertainment information.

32. (**Previously Presented**) The method according to claim 28, wherein the communicatively coupled services include at least one remotely located service and the selected domain agent includes data for controlling or communicating with the remotely located service.

33. (**Previously Presented**) The method according to claim 32, wherein forwarding the formulated question or command to the agent architecture includes transmitting a request to the remotely located service.

34. (**Previously Presented**) The method according to claim 33, wherein the remotely located service is associated with a remotely located device.

35. (**Previously Presented**) The method according to claim 33, wherein the request is transmitted to the remotely located service via a communication network.

36. (**Previously Presented**) The method according to claim 32, wherein the remotely located service includes at least one of a payment service provider, a customer relationship management system, a specialized service, a location service, or an emergency service.

37. (**Previously Presented**) The method according to 33, wherein the request is transmitted to the remotely located service via a wide-area RF transceiver.

38. (**Currently Amended**) The method according to 29, wherein the filter removes ~~is configured to remove~~ background noise from the electronic signal to optimize the signal to noise ratio of the electronic signal.

39. (**Currently Amended**) The method according to 29, wherein the filter employs ~~is configured to employ~~ at least one of adaptive echo cancellation or adaptive lossy audio compression to optimize the signal to noise ratio of the electronic signal.

40. (**Cancelled**)

41. (**Previously Presented**) The method according to claim 28, wherein the communicatively coupled services include one or more shared network resources.

42. (**Currently Amended**) The method according to claim 41, wherein the shared network resources include a telematics control unit that interfaces ~~configured to interface~~ with one or more devices connected to the vehicle.

43. (**Previously Presented**) The method according to claim 42, wherein the shared network resources further include at least one resource located remotely from the vehicle.

44-56. (**Cancelled**)

57. (**Currently Amended**) The mobile system according to claim 1, wherein the agent manager ~~is configured to~~:

loads ~~load~~ and initializes ~~initialize~~ the system agent and the plurality of domain agents in response to ~~when~~ the natural language speech processing system ~~boots up~~ booting up;

unloads ~~unload~~ the system agent and the plurality of domain agents ~~when~~ in response to the natural language speech processing system ~~shuts down~~ shutting down;

performs ~~perform~~ license management for the plurality of domain agents and content stored in one or more databases; and

searches ~~search~~ a network to find a source for a suitable agent [[if]] in response to the question or command requiring ~~requires~~ an agent not currently loaded on the natural language speech processing system.

58. (**Previously Presented**) The mobile system according to claim 1, wherein the one or more utilities included in the agent library include at least one of a text and string handling function, a network communications function, a database lookup and management function, a fuzzy and probabilistic evaluation function, or a text to speech formatting function.

59. (**Currently Amended**) The mobile system according to claim 58, wherein the system agent ~~is configured to~~:

provides ~~provide~~ default functionality and foundation services that can be used by each of the plurality of domain agents;

uses ~~use~~ one or more of the utilities included in the agent library to perform one or more of the [[the]] text and string handling function, the network communications function, the database lookup and management function, the fuzzy and probabilistic evaluation function, or the text to speech formatting function; and

manages ~~manage~~ one or more criteria handlers used to determine the context for the natural language speech utterance, wherein the one or more criteria handlers provide context sensitive procedures for extracting information from the at least one question or command.

60. (**Currently Amended**) The mobile system according to claim 1, wherein the speech recognition engine ~~is configured to~~:

determines ~~determine~~ an identity of the user based on unique voice characteristics of the user; and

tags ~~tag~~ the recognized words or phrases with the identity of the user to associate the utterance with the user and the current dialog in the natural language speech processing system.

61. (**Previously Presented**) The mobile system according to claim 1, wherein the plurality of dictionary and phrase entries used by the speech recognition engine are further dynamically updated based on one or more dynamic fuzzy set possibilities or prior probabilities derived from the history of the current dialog and the one or more prior dialogs.

62. (**Currently Amended**) The mobile system according to claim 2, wherein the multi-threaded environment of the event manager ~~is configured to~~ further enables ~~enable~~ the natural language speech processing system to use a plurality of the domain agents to provide the plurality of real-time responses to the plurality of questions or commands in the plurality of different contexts across the plurality of overlapping or interleaved sessions with the user.

63. (**Previously Presented**) The method according to claim 28, further comprising:

executing the question or command in response to determining that the question or command will not create a hazardous condition for the vehicle;

providing interactive guidance to the user to resolve the hazardous condition during the current dialog in response to determining that the question or command will create a hazardous condition for the vehicle; and

enabling the user to manually override the hazardous condition, wherein the question or command is executed in response to the user manually overriding the hazardous condition.

64. (**Previously Presented**) The method according to claim 28, further comprising:

receiving diagnostic information from one or more sensors connected to the vehicle, wherein the diagnostic information relates to one or more problems with the vehicle;

providing one or more interactive announcements or warnings to the user in response to the diagnostic information received from the one or more sensors; and

mediating a solution to the one or more problems with the vehicle during the current dialog with the user.

65. (**Previously Presented**) The method according to claim 64, wherein the solution to the one or more problems includes at least one of scheduling service for the vehicle, summoning help to the vehicle over one or more communication links, providing remedial instructions that address one or more of the problems, ordering one or more parts for the vehicle, or providing a cost estimate for the scheduled service.

66. (**Previously Presented**) The method according to claim 28, further comprising:

detecting an accident situation in response to information received from one or more sensors connected to the vehicle;

interacting with the user to determine at least one of a nature of the accident situation or a condition of the user; and

reporting the accident situation to emergency personnel over a communications link.

67. (**Previously Presented**) The method according to claim 66, wherein reporting the accident situation includes:

reporting at least one of the nature of the accident situation or the condition of the user to the emergency personnel; and

establishing a voice channel to enable communication between the user and the emergency personnel.

68. (**Previously Presented**) The method according to claim 28, further comprising:

determining that the recognized words or phrases include at least one predetermined panic or emergency words or phrases indicating that a crime is occurring; and

summoning help to the vehicle over one or more communication links in response to the recognized words or phrases including the at least one predetermined panic or emergency words or phrases indicating that the crime is occurring.

69. (**Previously Presented**) The method according to claim 28, further comprising providing interactive guidance to assist the user in performing one or more maneuvers to operate the vehicle.

70. (**Previously Presented**) The method according to claim 28, further comprising:

providing interactive routing information to coordinate a rendezvous with one or more other vehicles in communication with the vehicle; and

establishing a voice channel to enable communication between the user and one or more users in the one or more other vehicles.

71. (**Previously Presented**) The method according to claim 28, further comprising:

detecting that the vehicle is approaching or has exceeded a travel limit for the vehicle;

providing interactive guidance for returning to the travel limit or for not exceeding the travel limit; and

mediating a negotiation with the user to extend the travel limit.

72. (**Previously Presented**) The method according to claim 28, further comprising providing interactive guidance to relating to one or more tasks for the user based on a location of the vehicle.

REMARKS

Upon entry of the foregoing Amendment, claims 1-2, 4, 6-8, 10-39, 41-43, and 57-72 are pending in the application. Claims 1-2, 4, 15, 18-19, 21, 24, 28-29, 38-39, 42, 57, 59-60, and 62 have been amended. No claims have been cancelled or newly added. Applicants believe that this Amendment does not add new matter. In view of the foregoing Amendment and the following Remarks, allowance of all the pending claims is requested.

ENTRY OF THE AMENDMENT

Applicants submit that the foregoing Amendment should be entered for at least the reason that the amendments to the claims do not raise new issues that would require further consideration and/or search, nor do the amendments raise the issue of new matter. More particularly, the amendments to the claims have been made solely to address the claim objections raised by the Examiner and thereby place the application in condition for allowance. As such, for at least this reason, the Amendment should be entered.

ALLOWABLE SUBJECT MATTER

Applicants thank the Examiner for indicating that claims 1-2, 4, 6-8, 10-39, 41-43, and 57-72 would be allowable if the claims were rewritten to overcome the claim objections presented in the Final Office Action, and if a Terminal Disclaimer was filed to overcome the obviousness-type double patenting rejection presented in the Final Office Action. Office Action, pages 2 and 6-8. As such, Applicants note that claims 1-2, 4, 15, 18-19, 21, 24, 57, 59-60, and 62 have been amended to overcome the outstanding claim objections, and further that a Terminal Disclaimer is being filed herewith to overcome the outstanding obviousness-type double patenting rejection. Thus, claims 1-2, 4, 6-8, 10-39, 41-43, and 57-72 each recite allowable subject matter. Notice to that effect is respectfully requested.

CLAIM OBJECTIONS

The Examiner has objected to claims 1-2, 4, 6-8, 10-27, and 57-62 because of alleged informalities. In particular, the Examiner has objected to claims 1-2, 4, 6-8, 10-27, and 57-62

for reciting "various steps/elements 'configured to' perform certain functions," wherein the Examiner alleges that "[i]t is not certain whether these functions are part of the claim because they are not positively recited." Office Action, page 4.

Solely for the purpose of expediting prosecution of this application, and without acknowledging the propriety of the alleged basis for the objection, Applicants note that claims 1-2, 4, 15, 18-19, 21, 24, 57, 59-60, and 62 have been amended as indicated above to further clarify that the various components recited therein positively perform the various functions further recited therein. Furthermore, although not subject to any claim objections, claims 28-29, 38-39, and 42 have been amended as indicated above to further clarify that components "configured to" perform certain functions in fact positively perform such functions.

Thus, for at least the reason that the amendments to the claims fully address the alleged basis for the objection presented in the Office Action, Applicants request that the Examiner withdraw this objection to the claims.

NON-STATUTORY DOUBLE PATENTING REJECTION

The Examiner has rejected claims 1 and 28 under the judicially created doctrine of non-statutory obviousness-type double patenting as allegedly being unpatentable over claim 1 of U.S. Patent No. 7,398,209 in view of "A Distributed Architecture for Cooperative Spoken Dialogue Agents with Coherent Dialogue State and History to Lin et al. ("Lin").

Solely for the purpose of expediting prosecution of this application, and without acknowledging the propriety of the alleged basis for the rejection, Applicants note that a Terminal Disclaimer is being filed herewith to overcome this rejection. Accordingly, Applicants request that the Examiner withdraw this rejection of the claims. Furthermore, Applicants note that the filing of a Terminal Disclaimer to obviate a rejection based on non-statutory double patenting does not constitute an admission of the propriety of the rejection. *See Quad Environmental Technologies Corp. v. Union Sanitary District*, 946 F.2d 870 (Fed. Cir. 1991).

CONCLUSION

Having addressed each of the foregoing objections and rejections, it is respectfully submitted that a full and complete response has been made to the outstanding Office Action. As such, the application is in condition for allowance. Notice to that effect is respectfully requested.

If the Examiner believes, for any reason, that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at the number provided.

Date: **December 2, 2009**

Respectfully submitted,

By: _____

Syed Jafar Ali
Registration No. 58,780

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PTO/SB/26 (07-09)
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TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT

Docket Number (Optional): 090611-0312470

In re Application of: Robert A. KENNEWICK et al.

Application No.: 10/618,633

Filed: July 15, 2003

For: Mobile Systems and Methods for Responding to Natural Language Speech Utterance

The owner*, VoiceBox Technologies, Inc., of 100 percent interest in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term **prior patent** No. 7,398,209 as the term of said prior patent is defined in 35 U.S.C. 154 and 173, and as the term of said **prior patent** is presently shortened by any terminal disclaimer. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the **prior patent** are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, the owner does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term as defined in 35 U.S.C. 154 and 173 of the **prior patent**, "as the term of said **prior patent** is presently shortened by any terminal disclaimer," in the event that said **prior patent** later:

- expires for failure to pay a maintenance fee;
- is held unenforceable;
- is found invalid by a court of competent jurisdiction;
- is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321;
- has all claims canceled by a reexamination certificate;
- is reissued; or
- is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.

Check either box 1 or 2 below, if appropriate.

1. ☐ For submissions on behalf of a business/organization (e.g., corporation, partnership, university, government agency, etc.), the undersigned is empowered to act on behalf of the business/organization.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

2. ☑ The undersigned is an attorney or agent of record. Reg. No. 58,780

Signature — December 2, 2009 (Date)

S. Jafar Ali
Typed or printed name

703-770-7540
Telephone Number

☑ Terminal disclaimer fee under 37 CFR 1.20(d) included.

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

*Statement under 37 CFR 3.73(b) is required if terminal disclaimer is signed by the assignee (owner). Form PTO/SB/96 may be used for making this certification. See MPEP § 324.

This collection of information is required by 37 CFR 1.321. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Electronic Patent Application Fee Transmittal

Application Number:	10618633
Filing Date:	15-Jul-2003
Title of Invention:	Mobile systems and methods for responding to natural language speech utterance
First Named Inventor/Applicant Name:	Robert A. Kennewick
Filer:	Syed Jafar Ali/Miriam E. Nelsen
Attorney Docket Number:	090611-0312470

Filed as Large Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
Statutory disclaimer	1814	1	140	140
		Total in USD ($)		**140**

Electronic Acknowledgement Receipt

EFS ID:	6558469
Application Number:	10618633
International Application Number:	
Confirmation Number:	5659
Title of Invention:	Mobile systems and methods for responding to natural language speech utterance
First Named Inventor/Applicant Name:	Robert A. Kennewick
Customer Number:	00909
Filer:	Syed Jafar Ali/Miriam E. Nelsen
Filer Authorized By:	Syed Jafar Ali
Attorney Docket Number:	090611-0312470
Receipt Date:	02-DEC-2009
Filing Date:	15-JUL-2003
Time Stamp:	16:00:33
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$140
RAM confirmation Number	2442
Deposit Account	033975
Authorized User	

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Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		090611-0312470_Response_Final_OA_Terminal_Disclaimer.pdf	676507 be3a702ede8c5a61ad7e096636f08bf94a0fbc38	yes	18

Multipart Description/PDF files in .zip description

Document Description	Start	End
Amendment After Final	1	1
Claims	2	14
Applicant Arguments/Remarks Made in an Amendment	15	17
Statutory disclaimers per MPEP 1490.	18	18

Warnings:

Information:

2	Fee Worksheet (PTO-875)	fee-info.pdf	29999 5c7993a2c46aa32550903018518e54c5e70ae555	no	2

Warnings:

Information:

Total Files Size (in bytes):	706506

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/SB/06 (07-06)
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PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number	Filing Date	☐ To be Mailed
10/618,633	07/15/2003	

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY ☒ RATE ($)	SMALL ENTITY ☒ FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =		OR	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =			X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $250 ($125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT 12/02/2009	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE ($)	SMALL ENTITY ADDITIONAL FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	* 55	Minus	** 56	= 0	X $26 =	0	OR	X $ =	
Independent (37 CFR 1.16(h))	* 2	Minus	***3	= 0	X $110 =	0	OR	X $ =	
☐ Application Size Fee (37 CFR 1.16(s))									
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
					TOTAL ADD'L FEE	0	OR	TOTAL ADD'L FEE	

AMENDMENT	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)	OR	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =		OR	X $ =	
Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =		OR	X $ =	
☐ Application Size Fee (37 CFR 1.16(s))									
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
					TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

Legal Instrument Examiner:
/DEBRA a. SAVOY/

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Application Number	Application/Control No.	Applicant(s)/Patent under Reexamination	
	10/618,633	KENNEWICK ET AL.	

Document Code - DISQ	Internal Document – DO NOT MAIL

TERMINAL DISCLAIMER	☒ APPROVED	☐ DISAPPROVED
Date Filed : 12/02/09	**This patent is subject to a Terminal Disclaimer**	

Approved/Disapproved by:
Angie Walker

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909 7590 12/16/2009

PILLSBURY WINTHROP SHAW PITTMAN, LLP
P.O. BOX 10500
MCLEAN, VA 22102

EXAMINER	
WOZNIAK, JAMES S	
ART UNIT	PAPER NUMBER
2626	

DATE MAILED: 12/16/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/618,633	07/15/2003	Robert A. Kennewick	090611-0312470	5659

TITLE OF INVENTION: MOBILE SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	$755	$300	$0	$1055	03/16/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

Google Exhibit 1019
Page 00504

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

999 7590 12/16/2009

PILLSBURY WINTHROP SHAW PITTMAN, LLP
P.O. BOX 10500
MCLEAN, VA 22102

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/618,633	07/15/2003	Robert A. Kennewick	090611-0312470	5659

TITLE OF INVENTION: MOBILE SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	$755	$300	$0	$1055	03/16/2010

EXAMINER	ART UNIT	CLASS-SUBCLASS
WOZNIAK, JAMES S	2626	704-270100

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

❑ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1_____

(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2_____ 3_____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ❑ Corporation or other private group entity ❑ Government

4a. The following fee(s) are submitted:

❑ Issue Fee

❑ Publication Fee (No small entity discount permitted)

❑ Advance Order - # of Copies _____

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**

❑ A check is enclosed.

❑ Payment by credit card. Form PTO-2038 is attached.

❑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)

❑ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

❑ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Google Exhibit 1019
Page 00505

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/618,633	07/15/2003	Robert A. Kennewick	090611-0312470	5659

909 7590 12/16/2009

PILLSBURY WINTHROP SHAW PITTMAN, LLP
P.O. BOX 10500
MCLEAN, VA 22102

EXAMINER	
WOZNIAK, JAMES S	
ART UNIT	PAPER NUMBER
2626	

DATE MAILED: 12/16/2009

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 611 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 611 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability	Application No.	Applicant(s)	
	10/618,633	KENNEWICK ET AL.	
	Examiner	Art Unit	
	JAMES S. WOZNIAK	2626	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *the Amendment After Final filed on 12/2/2009.*

2. ☒ The allowed claim(s) is/are *1-2, 4, 6-8, 10-39, 41-43, and 57-72 (now claims 1-55).*

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
   a) ☐ All b) ☐ Some* c) ☐ None of the:
      1. ☐ Certified copies of the priority documents have been received.
      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
   (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

/James S. Wozniak/
Primary Examiner, Art Unit 2626

DETAILED ACTION

Response to Amendment

1. In response to the office action from 9/15/2009, the applicant has submitted an Amendment After Final, filed 12/2/2009, amending the claims 1-2, 4, 15, 18-19, 21, 24, 28-29, 38-39, 42, 57, 59-60, and 62 to eliminate objected to claim language and filing a terminal disclaimer to obviate the previous obviousness-type double patenting rejection *(Amendment, Page 15)*. As all previously outstanding objections and rejections have now been withdrawn, claims 1-2, 4, 6-8, 10-39, 41-43, and 57-72 are allowable over the prior art of record for the reasons set forth below.

2. As claims 1-2, 4, 15, 18-19, 21, 24, 28-29, 38-39, 42, 57, 59-60, and 62 have been amended to replace the unclear "configured to" claim language with language that clearly recites that the claimed functions are associated with their respective elements *(Amendment, Pages 15-16)*, the examiner has withdrawn the previous claim objections directed toward minor informalities.

3. In response to the terminal disclaimer filed on 12/2/2009 *(Amendment, Page 16)*, the examiner has withdrawn the previous obviousness-type double patenting rejection.

Allowable Subject Matter

4. **Claims 1-2, 4, 6-8, 10-39, 41-43, and 57-72** are allowable over the prior art of record.

5. The following is an examiner's statement of reasons for allowance:

With respect to **Claims 1 and 28**, the prior art of record fails to explicitly teach or fairly suggest, either taken individually or in combination, a respective vehicle-based system and method as is set forth in these claims that features means/steps of receiving a natural language speech input from a user, processing a natural language speech input using a speech recognition engine, and a specific parser, and a specific agent architecture in combination with the speech recognition engine including a plurality of dictionary and phrase entries that are dynamically updated based on at least combined histories from a present dialog and other prior dialogs and the agent architecture featuring a agent library that includes one or more utilities that can be used by the system agent and the plurality of domain agents.

Most pertinent prior art:

Although Bennett et al *(U.S. Patent: 6,615,172)* evidences that a means for receiving and coding a speech input *(Col. 10, Line 54- Col. 11, Line 17; and Col. 15, Line 53- Col. 16, Line 21)*, a natural language processor *(Col. 24, Line 46- Col. 25, Line 67; Col. 27, Lines 17-51; and Col. 29, Line 30- Col. 30, Line 7; and agent, Col. 10, Line 54- Col. 11, Line 17)* that comprises a speech recognizer for recognizing query words/phrases that relies on user context data from different domains *(Col. 7, Lines 17-51; and Col. 27, Lines 17-67)* and a parser (*Col. 11, Line 59- Col. 12, Line 10; Col. 17, Lines 28-67; and Col. 27, Lines 17-51)*, and a shared architecture

between system components *(Col. 11, Lines 34-38)* is well known in the art, Bennett is deficient in that his invention only relies on a single past history of a current conversation *(Col. 27, Lines 17-67)*, whereas the presently claimed invention relies on a combined history of current conversations and prior different dialogs between the user and the system. Bennett also fails to teach the cited agent architecture. Thus, Bennett fails to explicitly teach or fairly suggest the applicants' invention as defined by claims 1 and 28.

Although Lin et al *("A Distributed Architecture for Cooperative Spoken Dialogue Agents with Coherent Dialogue State and History," 1999)* overcomes some of the deficiencies of Bennett by teaching an agent architecture for use in a natural language dialog system that features a user interface agent manager that corresponds to the claimed agent manager *(Section 2.2-3.1 and Fig. 3)*, a facilitator/switcher that enables dialog system processes through dialog/state history that corresponds to the claimed system agent *(Figs. 2 and 3)*, a plurality of spoken dialog agents *(SDAs)* that correspond to the claimed plurality of domain agents *(Fig. 3)*, and a database accessible by the agents *(Fig. 3)*, Lin's agent database shown in Fig. 3 does not feature utilities that can be used by the system agent in a vehicle system and his speech recognizer does not rely on the applicants' combined histories for recognition updating. Thus, Lin individually and taken in combination with Bennett, fails to teach the applicants' invention defined by claims 1 and 28.

The remaining dependent claims further limit independent claims containing allowable subject, and thus, also contain allowable subject matter by virtue of their dependency.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to James S. Wozniak whose telephone number is (571) 272-7632. The examiner can normally be reached on M-Th, 7:30-5:00, F, 7:30-4, Off Alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richemond Dorvil can be reached at (571) 272-7602. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/James S. Wozniak/
Primary Examiner, Art Unit 2626

UNITED STATES PATENT AND TRADEMARK OFFICE

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United States Patent and Trademark Office
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BIB DATA SHEET

CONFIRMATION NO. 5659

SERIAL NUMBER	FILING or 371(c) DATE / RULE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
10/618,633	07/15/2003	455	2626	090611-0312470

APPLICANTS

Robert A. Kennewick, Seattle, WA;
David Locke, Redmond, WA;
Michael R. Kennewick SR., Bellevue, WA;
Michael R. Kennewick JR., Bellevue, WA;
Richard Kennewick, Woodinville, WA;
Tom Freeman, Mercer Island, WA;
Stephen F. Elston, Seattle, WA;

**** CONTINUING DATA ***************************

This appln claims benefit of 60/395,615 07/15/2002

**** FOREIGN APPLICATIONS ***************************

**** IF REQUIRED, FOREIGN FILING LICENSE GRANTED **** ** SMALL ENTITY **

10/14/2003

Foreign Priority claimed	35 USC 119(a-d) conditions met	Verified and Acknowledged	Met after Allowance	STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
☐ Yes ☑ No	☐ Yes ☑ No	/JAMES S WOZNIAK/ Examiner's Signature	☐ Initials	WA	6	56	3

ADDRESS

PILLSBURY WINTHROP SHAW PITTMAN, LLP
P.O. BOX 10500
MCLEAN, VA 22102
UNITED STATES

TITLE

Mobile systems and methods for responding to natural language speech utterance

FILING FEE RECEIVED		
1284	FEES: Authority has been given in Paper No._____ to charge/credit DEPOSIT ACCOUNT No._____ for following:	☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	7562	(704/270 704/270.1 704/275 704/257 709/202).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/08 12:05
L3	0	(((dialogue dialog conversational conversation speech voice domain topic) near5 agent) near7 (shar$3 common access$3) and vehicle and pars$4 and (natural near4 language)).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/08 12:11
L7	8	(((dialogue dialog conversational conversation speech voice domain topic) near5 agent) near7 (shar$3 common access$3) and vehicle and pars$4 and (natural near4 language))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/08 12:11

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L4	0	(((dialogue dialog conversational conversation speech voice domain topic) near5 agent) near7 (shar$3 common access$3) and vehicle and pars$4 and (natural near4 language)).clm.	USPAT; UPAD	OR	ON	2009/12/08 12:11

L6	0	(704/270 704/270.1 704/275 704/257 709/202).ccls. and l4	USPAT; UPAD	OR	ON	2009/12/08 12:11

12/8/09 12:12:35 PM
C:\ Documents and Settings\ JWozniak\ My Documents\ Cases\ Kennewick_10_618633 \ Kennewick_WSP.wsp

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	10618633	KENNEWICK ET AL.
	Examiner	Art Unit
	JAMES S WOZNIAK	2626

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	12/10/2009								
1	1	=								
2	2	=								
	3	-								
4	4	=								
	5	-								
5	6	=								
6	7	=								
7	8	=								
	9	-								
8	10	=								
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35	30	=								
36	31	=								
37	32	=								
38	33	=								
39	34	=								
40	35	=								
41	36	=								

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	10618633	KENNEWICK ET AL.
	Examiner	Art Unit
	JAMES S WOZNIAK	2626

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	12/10/2009								
42	37	=								
33	38	=								
34	39	=								
	40	-								
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44	42	=								
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54	71	=								
55	72	=								

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	10618633	KENNEWICK ET AL.
	Examiner	**Art Unit**
	JAMES S WOZNIAK	2626

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	10618633	KENNEWICK ET AL.
	Examiner	**Art Unit**
	JAMES S WOZNIAK	2626

SEARCHED

Class	Subclass	Date	Examiner
704	270, 270.1, 275, 257	12/8/09	/JW/
709	202	12/8/09	/JW/

SEARCH NOTES

Search Notes	Date	Examiner
EAST Update Search (see attached printout)	12/8/09	/JW/

INTERFERENCE SEARCH

Class	Subclass	Date	Examiner
704	270, 270.1, 275, 257	12/8/09	/JW/

	/JAMES S WOZNIAK/ Primary Examiner.Art Unit 2626

Issue Classification

Application/Control No.	Applicant(s)/Patent Under Reexamination
10618633	KENNEWICK ET AL.
Examiner	**Art Unit**
JAMES S WOZNIAK	2626

ORIGINAL		INTERNATIONAL CLASSIFICATION									
CLASS	SUBCLASS	CLAIMED					NON-CLAIMED				
704	275	G	1	0	L	21 / 00 (2006.01.01)	G	1	0	L	13 / 00 (2006.01.01)
CROSS REFERENCE(S)		G	1	0	L	15 / 18 (2006.01.01)					

CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)				
257	270	270.1			

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	17	17	38	33		49	48	65						
2	2	18	18	39	34		50	49	66						
	3	19	19	40	35		51	50	67						
4	4	20	20	41	36		52	51	68						
	5	21	21	42	37		53	52	69						
5	6	22	22	33	38		54	53	70						
6	7	23	23	34	39		55	54	71						
7	8	11	24		40		56	55	72						
	9	12	25	43	41	26	57								
8	10	24	26	44	42	27	58								
9	11	25	27	45	43	39	59								
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13	13	32	29		45	30	61								
14	14	35	30		46	3	62								
15	15	36	31		47	46	63								
16	16	37	32		48	47	64								

NONE (Assistant Examiner)	(Date)	**Total Claims Allowed:** 55
/JAMES S WOZNIAK/ Primary Examiner.Art Unit 2626 (Primary Examiner)	12/10/2009 (Date)	O.G. Print Claim(s) 1 O.G. Print Figure 5

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS :	Robert A. KENNEWICK et al.	CONFIRMATION NO.:	5659
SERIAL NUMBER :	10/618,633	EXAMINER:	James S. Wozniak
FILING DATE :	July 15, 2003	ART UNIT:	2626
FOR :	MOBILE SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE		

RESPONSE TO FINAL OFFICE ACTION

Enter Amendment.
/JW/
12/10/2009

Mail Stop AF
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

In response to the Final Office Action mailed **September 15, 2009**, please amend the above-identified application as follows:

Amendments to the Claims begin on page **2** of this paper.

Remarks/Arguments begin on page **15** of this paper.

It is not believed that extensions of time or fees for net addition of claims are required beyond those that may otherwise be provided for in documents accompanying this paper. However, if additional extensions of time are necessary to prevent abandonment of this application, then such extensions of time are hereby petitioned for under 37 C.F.R. § 1.136(a), and any fees required therefore (including fees for net addition of claims) are hereby authorized to be charged to our Deposit Account No. 033975 (**Ref. No. 090611-0312470**).

INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Docket Number	Application Number
	090611-0312470	10/618,633
	Applicant(s)	
	Robert A. KENNEWICK *et al.*	
	Filing Date	Group Art Unit
Form PTO-1449	July 15, 2003	2626

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A	6,721,001	04/13/2004	Berstis	348	231.3	
	B	6,990,513	01/24/2006	Belfiore *et al.*	709	203	
	C	7,146,319	12/05/2006	Hunt	704	254	
	D	7,493,559	02/17/2009	Wolff *et al.*	715	727	
	E	2005/0033574	02/10/2005	Kim *et al.*	704	251	

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translations YES	Translations NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

EXAMINER	DATE CONSIDERED
/James Wozniak/	12/08/2009

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

401428624v1

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.W./

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

Form PTO-1449

Docket Number	Application Number
090611-0312470	10/618,633
Applicant(s)	
Robert A. KENNEWICK *et al.*	
Filing Date	Group Art Unit
July 15, 2003	2626

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A	5,617,407	04/01/1997	Bareis	369	275.3	
	B	5,797,112	08/18/1998	Komatsu *et al.*	701	201	
	C	6,381,535	04/30/2002	Durocher *et al.*	701	202	
	D	6,466,899	10/15/2002	Yano *et al.*	704	1	
	E	6,556,970	04/29/2003	Sasaki *et al.*	704	257	
	F	6,865,481	03/08/2005	Kawazoe *et al.*	701	211	
	G	6,973,387	12/06/2005	Masclet *et al.*	701	211	
	H	7,461,059	12/02/2008	Richardson *et al.*	707	5	
	I	2005/0246174	11/03/2005	DeGolia	704	270	
	J	2008/0103761	05/01/2008	Printz *et al.*	704	9	
	K	2008/0115163	05/15/2008	Gilboa *et al.*	725	34	
	L	2008/0133215	06/05/2008	Sarukkai	704	2	
	M	2009/0117885	05/07/2009	Roth	455	414.3	
	N	2009/0144271	06/04/2009	Richardson *et al.*	707	5	

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translations YES	Translations NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

	O	ARRINGTON, Michael, "Google Redefines GPS Navigation Landscape: Google Maps Navigation for Android 2.0", TechCrunch, printed from the Internet <http://www.techcrunch.com/2009/10/28/google-redefines-car-gps-navigation-google-maps-navigation-android/>, October 28, 2009, 4 pages.

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Electronic Patent Application Fee Transmittal

Application Number:	10618633
Filing Date:	15-Jul-2003
Title of Invention:	MOBILE SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE
First Named Inventor/Applicant Name:	Robert A. Kennewick
Filer:	Syed Jafar Ali/Susan Trader
Attorney Docket Number:	090611-0312470

Filed as Large Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
Submission- Information Disclosure Stmt	1806	1	180	180
		Total in USD ($)		**180**

Electronic Acknowledgement Receipt

EFS ID:	6648574
Application Number:	10618633
International Application Number:	
Confirmation Number:	5659
Title of Invention:	MOBILE SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE
First Named Inventor/Applicant Name:	Robert A. Kennewick
Customer Number:	00909
Filer:	Syed Jafar Ali/Susan Trader
Filer Authorized By:	Syed Jafar Ali
Attorney Docket Number:	090611-0312470
Receipt Date:	16-DEC-2009
Filing Date:	15-JUL-2003
Time Stamp:	14:35:49
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$180
RAM confirmation Number	802
Deposit Account	033975
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)

1		0312470_SIDS.pdf	125083 796c152fdc980667670ffb9672e9e52f82cfa43c	yes	4

Multipart Description/PDF files in .zip description		
Document Description	**Start**	**End**
Transmittal Letter	1	3
Information Disclosure Statement (IDS) Filed (SB/08)	4	4

Warnings:

Information:

2	NPL Documents	ARRINGTON.pdf	460470 c5d9ee28ccb7fd37cc9ef33170e713098f59f601	no	4

Warnings:

Information:

3	Fee Worksheet (PTO-875)	fee-info.pdf	30674 74cb52808931c0cc077a7a3b735ac544a7fe6ac5	no	2

Warnings:

Information:

Total Files Size (in bytes):	616227

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS :	Robert A. KENNEWICK *et al.*	CONFIRMATION NO.:	5659
SERIAL NUMBER :	10/618,633	EXAMINER:	James S. Wozniak
FILING DATE :	July 15, 2003	ART UNIT:	2626
FOR :	MOBILE SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE		

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicants hereby make of record in the above-identified application the documents listed on the attached Form PTO-1449.

Applicants have listed a publication date on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication date should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be

prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This Supplemental Information Disclosure Statement is being filed more than three months after the filing date of a national application other than a continued prosecution application under 37 C.F.R. §1.53(d), or more than three months after the date of entry of the national stage as set forth in 37 C.F.R. §1.491 in an international application, and after the mailing date of any of a Final Action under 37 C.F.R. §1.113, a Notice of Allowance under 37 C.F.R. §1.311, or an action that otherwise closes prosecution in the application, but on or before payment of the Issue Fee. 37 C.F.R. §1.97(d).

Documents H-N were cited by the U.S. Patent Office in co-pending Application Serial No. 11/671,526, filed February 6, 2007, in an Office Action dated November 20, 2009. I hereby certify that no item of information contained in this Supplemental Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to my knowledge after making reasonable inquiry, no item of information contained in this Supplemental Information Disclosure Statement was known to any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing of this Supplemental Information Disclosure Statement. 37 C.F.R. §1.97(e)(2).

Please charge the $180.00 fee [37 C.F.R. §1.17(p)] to Deposit Account No. 03-3975. In addition, please charge any fee deficiencies, or credit any overpayment, to Deposit Account No. 03-3975 as needed to ensure consideration of the Supplemental Information Disclosure Statement.

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449.

Respectfully submitted,

PILLSBURY WINTHROP SHAW PITTMAN LLP

By _____
Syed Jafar Ali
Registration No.: 58,780

Customer No.
00909

P. O. Box 10500
McLean, Virginia 22102
Telephone: (703) 770-7900
Telefax: (703) 770-7901

Dated: December 16, 2009

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/618,633	07/15/2003	Robert A. Kennewick	090611-0312470	5659

909 7590 01/12/2010

PILLSBURY WINTHROP SHAW PITTMAN, LLP
P.O. BOX 10500
MCLEAN, VA 22102

EXAMINER	
WOZNIAK, JAMES S	

ART UNIT	PAPER NUMBER
2626	

MAIL DATE	DELIVERY MODE
01/12/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

UNITED STATES DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450

APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
10618633	7/15/03	KENNEWICK ET AL.	090611-0312470

PILLSBURY WINTHROP SHAW PITTMAN, LLP
P.O. BOX 10500
MCLEAN, VA 22102

EXAMINER	
JAMES S.. WOZNIAK	
ART UNIT	**PAPER**
2626	20100107

DATE MAILED:

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner for Patents

On the same date as the Notice of Allowance mailing, 12/16/2009, the applicant filed an Information Disclosure Statement (IDS). This IDS has been fully considered and attached hereto. After consideration of this IDS, Claims 1-55 remain allowable for the reasons noted in the Notice of Allowance from 12/16/2009 (See Pages 3-5).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James S. Wozniak whose telephone number is (571) 272-7632. The examiner can normally be reached on M-Th, 7:30-5:00, F, 7:30-4, Off Alternate Fridays. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richemond Dorvil can be reached at (571) 272-7602. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/James S. Wozniak/
Primary Examiner, Art Unit 2626

PTO-90C (Rev.04-03)

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

Form PTO-1449

Docket Number	Application Number
090611-0312470	10/618,633
Applicant(s)	
Robert A. KENNEWICK *et al.*	
Filing Date	Group Art Unit
July 15, 2003	2626

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A	5,617,407	04/01/1997	Bareis	369	275.3	
	B	5,797,112	08/18/1998	Komatsu *et al.*	701	201	
	C	6,381,535	04/30/2002	Durocher *et al.*	701	202	
	D	6,466,899	10/15/2002	Yano *et al.*	704	1	
	E	6,556,970	04/29/2003	Sasaki *et al.*	704	257	
	F	6,865,481	03/08/2005	Kawazoe *et al.*	701	211	
	G	6,973,387	12/06/2005	Masclet *et al.*	701	211	
	H	7,461,059	12/02/2008	Richardson *et al.*	707	5	
	I	2005/0246174	11/03/2005	DeGolia	704	270	
	J	2008/0103761	05/01/2008	Printz *et al.*	704	9	
	K	2008/0115163	05/15/2008	Gilboa *et al.*	725	34	
	L	2008/0133215	06/05/2008	Sarukkai	704	2	
	M	2009/0117885	05/07/2009	Roth	455	414.3	
	N	2009/0144271	06/04/2009	Richardson *et al.*	707	5	

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translations YES	Translations NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

	O	ARRINGTON, Michael, "Google Redefines GPS Navigation Landscape: Google Maps Navigation for Android 2.0", TechCrunch, printed from the Internet <http://www.techcrunch.com/2009/10/28/google-redefines-car-gps-navigation-google-maps-navigation-android/>, October 28, 2009, 4 pages.

EXAMINER	DATE CONSIDERED
/James Wozniak/	01/07/2010

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

401607731v1

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.W./

Issue Classification

Application/Control No.	Applicant(s)/Patent Under Reexamination
10618633	KENNEWICK ET AL.
Examiner	**Art Unit**
JAMES S WOZNIAK	2626

ORIGINAL		INTERNATIONAL CLASSIFICATION									
CLASS	SUBCLASS	CLAIMED					NON-CLAIMED				
704	275	G	1	0	L	21 / 00 (2006.01.01)	G	1	0	L	13 / 00 (2006.01.01)
CROSS REFERENCE(S)		G	1	0	L	15 / 18 (2006.01.01)					

CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)				
257	270	270.1			

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	17	17	38	33		49	48	65						
2	2	18	18	39	34		50	49	66						
	3	19	19	40	35		51	50	67						
4	4	20	20	41	36		52	51	68						
	5	21	21	42	37		53	52	69						
5	6	22	22	33	38		54	53	70						
6	7	23	23	34	39		55	54	71						
7	8	11	24		40		56	55	72						
	9	12	25	43	41	26	57								
8	10	24	26	44	42	27	58								
9	11	25	27	45	43	28	59								
10	12	31	28		44	29	60								
13	13	32	29		45	30	61								
14	14	35	30		46	3	62								
15	15	38	31		47	46	63								
16	16	37	32		48	47	64								

NONE (Assistant Examiner)	(Date)	**Total Claims Allowed:** 55	
/JAMES S WOZNIAK/ Primary Examiner.Art Unit 2626 (Primary Examiner)	12/10/2009 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 5

Google Exhibit 1019
Page 00533

INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Docket Number	Application Number
	090611-0312470	10/618,633
	Applicant(s)	
	Robert A. KENNEWICK *et al.*	
	Filing Date	Group Art Unit
Form PTO-1449	July 15, 2003	2626

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A	6,833,848	12/21/2004	Wolff *et al.*			
	B	6,877,134	04/05/2005	Fuller *et al.*			

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translations YES	Translations NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

401684059v1

Electronic Patent Application Fee Transmittal

Application Number:	10618633
Filing Date:	15-Jul-2003
Title of Invention:	MOBILE SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE
First Named Inventor/Applicant Name:	Robert A. Kennewick
Filer:	Syed Jafar Ali/Susan Trader
Attorney Docket Number:	090611-0312470

Filed as Large Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
Submission- Information Disclosure Stmt	1806	1	180	180
		Total in USD ($)		**180**

Electronic Acknowledgement Receipt

EFS ID:	6891809
Application Number:	10618633
International Application Number:	
Confirmation Number:	5659
Title of Invention:	MOBILE SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE
First Named Inventor/Applicant Name:	Robert A. Kennewick
Customer Number:	00909
Filer:	Syed Jafar Ali/Susan Trader
Filer Authorized By:	Syed Jafar Ali
Attorney Docket Number:	090611-0312470
Receipt Date:	27-JAN-2010
Filing Date:	15-JUL-2003
Time Stamp:	15:17:15
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$180
RAM confirmation Number	1620
Deposit Account	033975
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)

1		0312470_SIDS.pdf	105235 916d40a7c500fd15d1499147a3be723100da62e3	yes	4

Multipart Description/PDF files in .zip description		
Document Description	**Start**	**End**
Transmittal Letter	1	3
Information Disclosure Statement (IDS) Filed (SB/08)	4	4

Warnings:

Information:

2	Fee Worksheet (PTO-875)	fee-info.pdf	30673 9bb0051b376f32328e4555b60d41c9b3cd4ce57	no	2

Warnings:

Information:

Total Files Size (in bytes):	135908

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS :	Robert A. KENNEWICK *et al.*	CONFIRMATION NO.:	5659
SERIAL NUMBER :	10/618,633	EXAMINER:	James S. Wozniak
FILING DATE :	July 15, 2003	ART UNIT:	2626
FOR :	MOBILE SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE		

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicants hereby make of record in the above-identified application the documents listed on the attached Form PTO-1449.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This Supplemental Information Disclosure Statement is being filed more than three months after the filing date of a national application other than a continued prosecution

Google Exhibit 1019
Page 00539

application under 37 C.F.R. §1.53(d), or more than three months after the date of entry of the national stage as set forth in 37 C.F.R. §1.491 in an international application, and after the mailing date of any of a Final Action under 37 C.F.R. §1.113, a Notice of Allowance under 37 C.F.R. §1.311, or an action that otherwise closes prosecution in the application, but on or before payment of the Issue Fee. 37 C.F.R. §1.97(d).

These documents were cited by the U.S. Patent Office in co-pending Application Serial No. 11/212,693, filed August 29, 2005, in an Office Action dated December 29, 2009. I hereby certify that no item of information contained in this Supplemental Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to my knowledge after making reasonable inquiry, no item of information contained in this Supplemental Information Disclosure Statement was known to any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing of this Supplemental Information Disclosure Statement. 37 C.F.R. §1.97(e)(2).

Please charge the $180.00 fee [37 C.F.R. §1.17(p)] to Deposit Account No. 03-3975. In addition, please charge any fee deficiencies, or credit any overpayment, to Deposit Account No. 03-3975 as needed to ensure consideration of the Supplemental Information Disclosure Statement.

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449.

Respectfully submitted,

PILLSBURY WINTHROP SHAW PITTMAN LLP

By _____
Syed Jafar Ali
Registration No.: 58,780

Customer No.
00909

P. O. Box 10500
McLean, Virginia 22102
Telephone: (703) 770-7900
Telefax: (703) 770-7901

Dated: January 27, 2010

AUG 30 2007
PATENT & TRADEMARK OFFICE

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

Form PTO-1449

Docket Number	Application Number
090611-0312470	10/618,633
Applicant(s)	
Robert A. KENNEWICK *et al.*	
Filing Date	Group Art Unit
July 15, 2003	2626

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/J.W./	A	5,918,222	06/29/1999	Fukui *et al.*	707	1	
	B	6,195,651	02/27/2001	Handel *et al.*	707	2	
	C	6,556,973	04/29/2003	Lewin	704	277	
	D	6,996,531	02/07/2006	Korall *et al.*	704	270	
	E	7,020,609	03/28/2006	Thrift *et al.*	704	270.1	
	F	7,027,975	04/11/2006	Pazandak *et al.*	704	9	
	G	7,062,488	06/13/2006	Reisman	707	8	
	H	7,092,928	08/15/2006	Elad *et al.*	706	60	
	I	7,137,126	11/14/06	Coffman *et al.*	719	328	
/J.W./	J	2004/0044516	03/04/2004	Kennewick *et al.*	704	5	

RL 1/29/10

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translations YES	Translations NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

EXAMINER	DATE CONSIDERED
/James Wozniak/	10/04/2007

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

400631135v1

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571) 273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

909 7590 12/16/2009

PILLSBURY WINTHROP SHAW PITTMAN LLP
P. O. BOX 10500
MCLEAN, VIRGINIA 22102

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/618,633	July 15, 2003	Robert A. Kennewick	090611-0312470	5659

TITLE OF INVENTION:

MOBILE SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	$755.00	$300.00	$1055.00	March 16, 2010

EXAMINER	ART UNIT	CLASS-SUBCLASS
James S. Wozniak	2626	704-270100

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 Pillsbury Winthrop Shaw Pittman LLP
2
3

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE: VoiceBox Technologies, Inc.

(B) RESIDENCE: (CITY and STATE OR COUNTRY): Kirkland, Washington

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☑ Corporation or other private group entity ☐ Government

4a. The following fee(s) are enclosed:
- ☑ Issue Fee
- ☑ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _

4b. Payment of Fee(s):
- ☐ A check in the amount of the fee(s) is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☑ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number 033975

5. **Change in Entity Status** (from status indicated above)
- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.
NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature Date February 16, 2010

Typed or printed name Syed Jafar Ali Registration No. 58,780

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Electronic Patent Application Fee Transmittal

Application Number:	10618633
Filing Date:	15-Jul-2003
Title of Invention:	MOBILE SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE
First Named Inventor/Applicant Name:	Robert A. Kennewick
Filer:	Syed Jafar Ali/Miriam E. Nelsen
Attorney Docket Number:	090611-0312470

Filed as Small Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Utility Appl issue fee	2501	1	755	755
Publ. Fee- early, voluntary, or normal	1504	1	300	300

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**1055**

Electronic Acknowledgement Receipt

EFS ID:	7019886
Application Number:	10618633
International Application Number:	
Confirmation Number:	5659
Title of Invention:	MOBILE SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE
First Named Inventor/Applicant Name:	Robert A. Kennewick
Customer Number:	00909
Filer:	Syed Jafar Ali/Miriam E. Nelsen
Filer Authorized By:	Syed Jafar Ali
Attorney Docket Number:	090611-0312470
Receipt Date:	16-FEB-2010
Filing Date:	15-JUL-2003
Time Stamp:	16:08:25
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$1055
RAM confirmation Number	3147
Deposit Account	033975
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	090611-0312470_Issue_Pub_Fee_Transmittal.pdf	108698 aad62ab33b54f311c513e7a57cd2d13f0f824ffc	no	1
Warnings:					
Information:					
2	Fee Worksheet (PTO-875)	fee-info.pdf	32047 6fb1f2db3065ede1ec250bc760b72d6b892520e9	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	140745		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/618,633	07/15/2003	Robert A. Kennewick	090611-0312470	5659

909 7590 02/19/2010

PILLSBURY WINTHROP SHAW PITTMAN, LLP
P.O. BOX 10500
MCLEAN, VA 22102

EXAMINER	
WOZNIAK, JAMES S	

ART UNIT	PAPER NUMBER
2626	

MAIL DATE	DELIVERY MODE
02/19/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

UNITED STATES DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450

APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
10618633	7/15/03	KENNEWICK ET AL.	090611-0312470

PILLSBURY WINTHROP SHAW PITTMAN, LLP
P.O. BOX 10500
MCLEAN, VA 22102

EXAMINER	
JAMES S.. WOZNIAK	
ART UNIT	**PAPER**
2626	20100216

DATE MAILED:

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner for Patents

After the Notice of Allowance mailing, the applicant filed an Information Disclosure Statement (IDS) on 1/27/2010. This IDS has been fully considered and attached hereto. After consideration of this IDS, Claims 1-55 remain allowable for the reasons noted in the Notice of Allowance from 12/16/2009 (See Pages 3-5).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James S. Wozniak whose telephone number is (571) 272-7632. The examiner can normally be reached on M-Th, 7:30-5:00, F, 7:30-4, Off Alternate Fridays. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richemond Dorvil can be reached at (571) 272-7602. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/James S. Wozniak/
Primary Examiner, Art Unit 2626

INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Docket Number	Application Number
	090611-0312470	10/618,633
	Applicant(s)	
	Robert A. KENNEWICK *et al.*	
	Filing Date	Group Art Unit
Form PTO-1449	July 15, 2003	2626

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A	6,833,848	12/21/2004	Wolff *et al.*			
	B	6,877,134	04/05/2005	Fuller *et al.*			

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translations YES	Translations NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

EXAMINER	DATE CONSIDERED
/James Wozniak/	02/16/2010

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

401684059v1

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.W./

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/618,633	04/06/2010	7693720	090611-0312470	5659

909 7590 03/17/2010

PILLSBURY WINTHROP SHAW PITTMAN, LLP
P.O. BOX 10500
MCLEAN, VA 22102

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment is 950 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site http://pair.uspto.gov for additional applicants):

Robert A. Kennewick, Seattle, WA;
David Locke, Redmond, WA;
Michael R. Kennewick SR., Bellevue, WA;
Michael R. Kennewick JR., Bellevue, WA;
Richard Kennewick, Woodinville, WA;
Tom Freeman, Mercer Island, WA;
Stephen F. Elston, Seattle, WA;

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Fax Message

To: **USPTO** **From:** **IPAN GmbH**

Maintenance Fee Branch

Office of Finance

001-571-273-6500 **Pages: 1 + 1**

Date: 10/09/2017

Attached: Petition pursuant § 1.27

PATENT
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Current Date: October 6th, 2017

Application No.: 10/618633
Filed: 15.07.2003

Patent No.: 7693720
Issued: 06.04.2010

CHANGE OF ENTITY STATUS PURSUANT TO 37 C. F. R. § 1.27 (g)(2)

Commissioner for Patents
Mail Stop M Correspondence
P.O. Box 1450
Alexandria, VA 22313-1450

By Fax: 001-571-273-6500

Sir:

This communication hereby notifies the United States Patent and Trademark Office that **small entity status is no longer applicable** for the above-identified patent.

Respectfully submitted,

Signature
Printed Name: Scott A. Ouellette
TITLE: Senior Director - Intellectual Property

Google Exhibit 1019
Page 00553

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT6700444

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
NUANCE COMMUNICATIONS, INC.	01/01/2021

RECEIVING PARTY DATA

Name:	VOICE INVENTIONS, LLC
Street Address:	2 EXECUTIVE DRIVE
Internal Address:	STE. 270
City:	FORT LEE
State/Country:	NEW JERSEY
Postal Code:	07024

PROPERTY NUMBERS Total: 29

Property Type	Number
Patent Number:	7398209
Patent Number:	7502738
Patent Number:	7809570
Patent Number:	8015006
Patent Number:	8112275
Patent Number:	8140327
Patent Number:	8155962
Patent Number:	8731929
Patent Number:	9734825
Patent Number:	7693720
Patent Number:	9031845
Patent Number:	7640160
Patent Number:	7917367
Patent Number:	8326634
Patent Number:	8849670
Patent Number:	9263039
Patent Number:	7620549
Patent Number:	8332224
Patent Number:	8620659

Property Type	Number
Patent Number:	9626959
Patent Number:	7949529
Patent Number:	8195468
Patent Number:	8447607
Patent Number:	8849652
Patent Number:	9495957
Patent Number:	7634409
Patent Number:	7983917
Patent Number:	8069046
Patent Number:	8150694

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Email: eddie.weiss@voiceinventions.com
Correspondent Name: EDWARD WEISS
Address Line 1: 2 EXECUTIVE DRIVE
Address Line 2: STE. 270
Address Line 4: FORT LEE, NEW JERSEY 07024

NAME OF SUBMITTER:	EDWARD WEISS
SIGNATURE:	/Edward Weiss/
DATE SIGNED:	05/10/2021
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 4
source=2020-12-24 - Assignment Nuance to Voice Inventions#page1.tif
source=2020-12-24 - Assignment Nuance to Voice Inventions#page2.tif
source=2020-12-24 - Assignment Nuance to Voice Inventions#page3.tif
source=2020-12-24 - Assignment Nuance to Voice Inventions#page4.tif

PATENT ASSIGNMENT AGREEMENT

This PATENT ASSIGNMENT AGREEMENT (the "Assignment Agreement") between Nuance Communications, Inc., a Delaware corporation, with an address at One Wayside Road, Burlington, MA 01803 ("Assignor"), and Voice Inventions, LLC, a Texas Limited Liability Company, with an address at 2 Executive Drive, Suite 270, Fort Lee, NJ 07024 ("Assignee").

RECITALS

WHEREAS the parties have entered into a certain Patent Purchase and Licensing Agreement (the "Purchase Agreement"), with an effective date of January 1, 2021;

WHEREAS Assignor possesses all legal rights, title, and interests in and to the patents listed in Exhibit A (the "Assigned Patent Portfolio") to this Assignment Agreement;

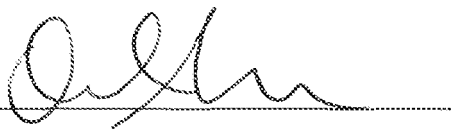
WHEREAS the parties desire to effectuate the assignment and transfer of the Assigned Patent Portfolio to Assignee such that Assignee shall acquire, and thus hereby acquires, all of Assignor's worldwide rights, title, and interests in and to the Assigned Patent Portfolio; and

WHEREAS the parties further desire that the assignment of the Assigned Patent Portfolio be undertaken in a such a manner as to allow Assignee to make such assignment a matter of record in the appropriate domestic and international patent offices;

NOW THEREFORE, for good and valuable consideration, the receipt of which by Assignor is hereby acknowledged, Assignor hereby sells, assigns, and transfers to Assignee, and Assignee hereby purchases and accepts from Assignor, all of Assignor's worldwide rights, title and interest, in and to the Assigned Patent Portfolio, including any and all of Assignor's rights to sue for past damages, subject to the terms and conditions of the Purchase Agreement.

IN WITNESS WHEREOF, intending to be legally bound, Assignor has caused this Assignment Agreement to by executed by its duly authorized representative and made effective, as of January 1, 2021.

Nuance Communications, Inc.
Assignor

By 

Name: David Greenbaum
Title: VP, Litigation & IP

Exhibit A

Assigned Patent Portfolio

	COUNTRY	TITLE	APPLICATION NUMBER	DATE FILED	PATENT NUMBER
1	US	SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE	10/452,147	Jun 3, 2003	7,398,209
2	US	SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE	11/747,547	May 11, 2007	7,502,738
3	US	SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE	12/168,554	Jul 7, 2008	7,809,570
4	US	SYSTEMS AND METHODS FOR PROCESSING NATURAL LANGUAGE SPEECH UTTERANCES WITH CONTEXT-SPECIFIC DOMAIN AGENTS	12/130,397	May 30, 2008	8,015,006
5	US	SYSTEM AND METHOD FOR USER-SPECIFIC SPEECH RECOGNITION	12/765,733	Apr 22, 2010	8,112,275
6	US	SYSTEM AND METHOD FOR FILTERING AND ELIMINATING NOISE FROM NATURAL LANGUAGE UTTERANCES TO IMPROVE SPEECH RECOGNITION AND PARSING	12/765,753	Apr 22, 2010	8,140,327
7	US	METHOD AND SYSTEM FOR ASYNCHRONOUSLY PROCESSING NATURAL LANGUAGE UTTERANCES	12/838,982	Jul 19, 2010	8,155,962
8	US	AGENT ARCHITECTURE FOR DETERMINING MEANINGS OF NATURAL LANGUAGE UTTERANCES	12/365,516	Feb 4, 2009	8,731,929
9	US	SYSTEM AND METHOD FOR PROCESSING NATURAL LANGUAGE UTTERANCES	14/278,627	May 15, 2014	9,734,825
10	US	MOBILE SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCES	10/618,633	Jul 15, 2003	7,693,720
11	US	MOBILE SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE	12/705,311	Feb 12, 2010	9,031,845

Google Exhibit 1019
Page 00557

12	US	SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE	11/197,504	Aug 5, 2005	7,640,160
13	US	SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE	12/617,506	Nov 12, 2009	7,917,367
14	US	SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE	13/019,834	Feb 2, 2011	8,326,634
15	US	SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE	13/690,895	Nov 30, 2012	8,849,670
16	US	SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE	14/500,723	Sep 29, 2014	9,263,039
17	US	SYSTEM AND METHOD OF SUPPORTING ADAPTIVE MISRECOGNITION IN CONVERSATIONAL SPEECH	11/200,164	Aug 10, 2005	7,620,549
18	US	SYSTEM AND METHOD OF SUPPORTING ADAPTIVE MISRECOGNITION IN CONVERSATIONAL SPEECH	12/571,795	Oct 1, 2009	8,332,224
19	US	SYSTEM AND METHOD OF SUPPORTING ADAPTIVE MISRECOGNITION IN CONVERSATIONAL SPEECH	13/022,370	Feb 7, 2011	8,620,659
20	US	SYSTEM AND METHOD OF SUPPORTING ADAPTIVE MISRECOGNITION IN CONVERSATIONAL SPEECH	14/143,903	Dec 30, 2013	9,626,959
21	US	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS	11/212,693	Aug 29, 2005	7,949,529
22	US	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS	13/084,197	Apr 11, 2011	8,195,468
23	US	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS	13/488,299	Jun 4, 2012	8,447,607
24	US	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS	13/898,045	May 20, 2013	8,849,652

25	US	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS	14/467,641	Aug 25, 2014	9,495,957
26	US	DYNAMIC SPEECH SHARPENING	11/513,269	Aug 31, 2006	7,634,409
27	US	DYNAMIC SPEECH SHARPENING	12/608,544	Oct 29, 2009	7,983,917
28	US	DYNAMIC SPEECH SHARPENING	12/608,572	Oct 29, 2009	8,069,046
29	US	SYSTEM AND METHOD FOR PROVIDING AN ACOUSTIC GRAMMAR TO DYNAMICALLY SHARPEN SPEECH INTERPRETATION	13/150,977	Jun 1, 2011	8,150,694
30	CN	SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE	2006800362006	Aug 4, 2006	ZL200680036200.6
31	CN	SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE	2015102059396	Aug 4, 2006	ZL201510205939.6
32	CN	MOBILE SYSTEMS AND METHODS OF SUPPORTING NATURAL LANGUAGE HUMAN-MACHINE INTERACTIONS	200680038560	Aug 29, 2006	200680038560

PTO/AIA/81A (02-15)
Approved for use through 03/31/2021. OMB 0651-0035
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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PATENT - POWER OF ATTORNEY OR REVOCATION OF POWER OF ATTORNEY WITH A NEW POWER OF ATTORNEY AND CHANGE OF CORRESPONDENCE ADDRESS

Patent Number	7693720
Issue Date	04/06/10
First Named Inventor	Kennewick, Robert A
Title	Mobile systems and methods for responding to natural language speech
Attorney Docket No.	9032-0007

I hereby revoke all previous powers of attorney given in the above-identified patent.

☐ A Power of Attorney is submitted herewith.

OR

☒ I hereby appoint Practitioner(s) associated with the Customer Number identified in the box at right as my/our attorney(s) or agent(s) with respect to the patent identified above, and to transact all business in the United States Patent and Trademark Office connected therewith: 174889

OR

☐ I hereby appoint Practitioner(s) named below as my/our attorney(s) or agent(s) with respect to the patent identified above, and to transact all business in the United States Patent and Trademark Office connected therewith:

Practitioner(s) Name	Registration Number

Please recognize or change the correspondence address for the above-identified patent to:

☒ The address associated with the above-identified Customer Number.

OR

☐ The address associated with the Customer Number identified in the box at right:

OR

☐ Firm or Individual Name					
Address					
City		State		Zip	
Country					
Telephone		Email			

I am the:

☐ Applicant.

OR

☒ Patent owner.

Statement under 37 CFR 3.73(c) (Form PTO/AIA/96) submitted herewith or filed on _____.

SIGNATURE of Applicant or Patent Owner

Signature	/Jeff Ronaldi/	Date	02/27/2023
Name	Jeff Ronaldi	Telephone	(571) 334-1112
Title and Company	Manager, Dialect, LLC		

NOTE: Signatures of all the applicants or patent owners of the entire interest or their representative(s) are required. If more than one signature is required, submit multiple forms, check the box below, and identify the total number of forms submitted in the blank below.

☐ A total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.31, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public, which is to update (and by the USPTO to process) the file of a patent or reexamination proceeding. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

PTO/AIA/96 (08-12)
Approved for use through 01/31/2013. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: Dialect, LLC

Application No./Patent No.: 7693720 Filed/Issue Date: 04/06/10

Titled: Mobile systems and methods for responding to natural language speech utterance

Dialect, LLC, a limited liability company

(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose **one** of options 1, 2, 3 or 4 below):

1. ☑ The assignee of the entire right, title, and interest.

2. ☐ An assignee of less than the entire right, title, and interest (check applicable box):

   ☐ The extent (by percentage) of its ownership interest is _____%. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.

   ☐ There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

   Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. ☐ The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

   Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. ☐ The recipient, via a court proceeding or the like (*e.g.*, bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose **one** of options A or B below):

A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

B. ☑ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

   1. From: Kennewick, Robert A et al. To: VoiceBox Technologies, Inc.

      The document was recorded in the United States Patent and Trademark Office at Reel 015737, Frame 0916, or for which a copy thereof is attached.

   2. From: VoiceBox Technologies, Inc. To: VoiceBox Technologies Corporation

      The document was recorded in the United States Patent and Trademark Office at Reel 032620, Frame 0956, or for which a copy thereof is attached.

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/AIA/96 (08-12)
Approved for use through 01/31/2013. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(c)

3. From: VoiceBox Technologies Corporation To: Nuance Communications, Inc.

The document was recorded in the United States Patent and Trademark Office at
Reel 034703, Frame 0429, or for which a copy thereof is attached.

4. From: Nuance Communications, Inc. To: Voice Inventions, LLC

The document was recorded in the United States Patent and Trademark Office at
Reel 056185, Frame 0742, or for which a copy thereof is attached.

5. From: Voice Inventions, LLC To: Dialect, LLC

The document was recorded in the United States Patent and Trademark Office at
Reel 060820, Frame 0857, or for which a copy thereof is attached.

6. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☑ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Jeff Ronaldi/	02/27/2023
Signature	Date
Jeff Ronaldi	Manager, Dialect, LLC
Printed or Typed Name	Title or Registration Number

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acknowledgement Receipt

EFS ID:	47604582
Application Number:	10618633
International Application Number:	
Confirmation Number:	5659
Title of Invention:	MOBILE SYSTEMS AND METHODS FOR RESPONDING TO NATURAL LANGUAGE SPEECH UTTERANCE
First Named Inventor/Applicant Name:	Robert A. Kennewick
Customer Number:	909
Filer:	David Alexander Gerasimow
Filer Authorized By:	
Attorney Docket Number:	090611-0312470
Receipt Date:	28-FEB-2023
Filing Date:	15-JUL-2003
Time Stamp:	14:22:30
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	7693720.pdf	206870 2d4f527bfd5d7c788fc67b3df567e6d49b8e5d5f	no	2

Warnings:

Information:					
2	Assignee showing of ownership per 37 CFR 3.73	7693720-aia0096.pdf	197002 4945d97a5ee9e040f3d1303acc37f096b7d41dfa	no	3
Warnings:					
Information:					
			Total Files Size (in bytes):	403872	

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
10/618,633	07/15/2003	Robert A. Kennewick	090611-0312470

CONFIRMATION NO. 5659

IMPROPER CPOA LETTER

909
Pillsbury Winthrop Shaw Pittman, LLP
PO Box 10500
McLean, VA 22102

OC000000137523616

Date Mailed: 03/07/2023

NOTICE REGARDING POWER OF ATTORNEY

This is in response to the power of attorney filed 02/28/2023. The power of attorney in this application is not accepted for the reason(s) listed below:

- The person(s) appointed in the power of attorney is/are not registered to practice before the U.S. Patent and Trademark Office.

/sltorres/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

174889
Carbon Research, Inc (aka Research Carbon, Inc)
43 Luke St
Prospect, CT 06712
UNITED STATES

Google Exhibit 1019
Page 00567

A● 120 (Rev. 08/10)

TO:	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court for the District of Delaware on the following

☐ Trademarks or ☑ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO.	DATE FILED	U.S. DISTRICT COURT
	4/3/2023	for the District of Delaware

PLAINTIFF	DEFENDANT
Dialect, LLC	G●●gle LLC and Alphabet Inc.

PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 See Attached		
2		
3		
4		
5		

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above---entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT

CLERK	(BY) DEPUTY CLERK	DATE

Copy 1---Upon initiation of action, mail this copy to Director Copy 3---Upon termination of action, mail this copy to Director
Copy 2---Upon filing document adding patent(s), mail this copy to Director Copy 4---Case file copy

	PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1	US 7,398,209 B2	7/8/2008	Dialect, LLC
2	US 7,502,738 B2	3/10/2009	Dialect, LLC
3	US 7,640,160 B2	12/29/2009	Dialect, LLC
4	US 7,693,720 B2	4/6/2010	Dialect, LLC
5	US 8,015,006 B2	9/6/2011	Dialect, LLC
6	US 8,447,607 B2	5/21/2013	Dialect, LLC
7	US 8,849,652 B2	9/30/2014	Dialect, LLC
8	US 9,031,845 B2	5/12/2015	Dialect, LLC

AO 120 (Rev. 08/10)

TO:	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court District of Delaware on the following

☐ Trademarks or ☑ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO.	DATE FILED	U.S. DISTRICT COURT
	4/3/2023	District of Delaware

PLAINTIFF	DEFENDANT
Cedar Lane Technologies Inc.	Best Lighting Products Inc.

	PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1	7,391,159	6/24/2008	Cedar Lane Technologies Inc.
2			Cedar Lane Technologies Inc.
3			Cedar Lane Technologies Inc.
4			Cedar Lane Technologies Inc.
5			Cedar Lane Technologies Inc.

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT

CLERK	(BY) DEPUTY CLERK	DATE

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

A● 120 (Rev. 08/10)

TO:	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court District of Delaware on the following

☐ Trademarks or ☑ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO.	DATE FILED	U.S. DISTRICT COURT
	4/3/2023	District of Delaware

PLAINTIFF	DEFENDANT
Cedar Lane Technologies Inc.	Hubbell Incorporated

	PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1	7,391,159	6/24/2008	Cedar Lane Technologies Inc.
2			Cedar Lane Technologies Inc.
3			Cedar Lane Technologies Inc.
4			Cedar Lane Technologies Inc.
5			Cedar Lane Technologies Inc.

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT

CLERK	(BY) DEPUTY CLERK	DATE

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy