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ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: METHODS AND APPARATUS FOR PROVIDING SERVICES USING SPEECH RECOGNITION

(57) Abstract: Methods and apparatus are used for the recognition and processing of spoken requests. Spoken sounds are received (108), identified, and processed (112) for requests that are serviceable. If processing fails to identify requests, or yields commands that are not entirely serviceable by the apparatus in the customer's premises, the spoken sounds, in either a fully processed, partially processed, or unprocessed state, are transmitted (100) to for further processing. Commands first identified or simply routed for execution are processed and made effective using remote apparatus and/or using the apparatus in the customer's premises (104).

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/28933

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G10L 21/00
 US CL : 704/270.1, 275

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 U.S. : 704/270.1, 275, 247, 379/88.22

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

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/0072918 A1 (WHITE et al.) 13 June 2002 (13.06.2002), paragraphs 5, 33-37, 82-83, 44, 41, 61-65.	1, 5-7, 54-55, 62-66
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Y	US 2001/0056350 A1 (CALDERONE et al.) 27 December 2001 (27.12.2001), paragraph 266 and Fig. 19A-19D.	2, 12-13
Y	US 2003/0125947 A1 (YUDKOWSKY) 03 July 2003 (03.07.2003), paragraph 15.	2-4, 8
Y	US 5,946,658 A (MIYAZAWA et al.) 31 August 1999 (31.08.1999), column 4, lines 18-14.	56
Y	US 5,915,001 A (UPPALURU) 22 June 1999 (22.06.1999), column 3, lines 1-17.	9-11

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

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INTERNATIONAL SEARCH REPORT

International application No.

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:
Please See Continuation Sheet

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-13, 54-56 and 62-66

Remark on Protest The additional search fees were accompanied by the applicant's protest.
 No protest accompanied the payment of additional search fees.

BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I, claim(s) 1-13, 54-56 and 62-66, drawn to apparatus/method that permits a user to obtain services using spoken requests, classified in class 704, subclass 270.1.

Group II, claim(s) 14-45, 57-61 and 67 drawn to a method/electronic medium for content search and selection, classified in class 709, subclass 217.

Group III, claim(s) 46-53, drawn to a method for speech recognition, classified in class 704, subclass 231.

The inventions listed as Groups I-III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

For Group I and Group II, they are distinct inventions. Further, the common features of Group I and Group II are receiving a spoken request and process the spoken request, which are wellknown, but the rest of claimed limitations are different. Therefore they are lack of unity of invention.

For Group I and Group III, they are distinct inventions. Further, the common feature of Group I and Group III are recording (captureing) a sound segment, which is wellknown, but the rest of claimed limitations are different. Therefore they are lack of unity of invention.