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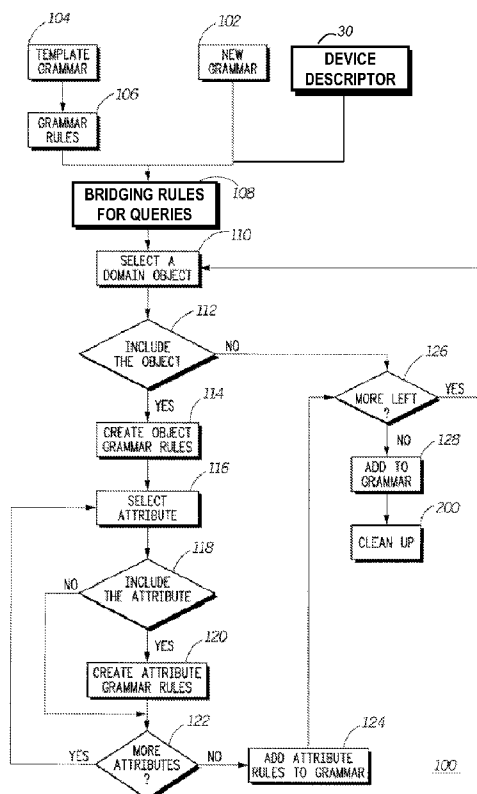
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(54) Title: INTERACTIVE TOOL FOR SEMI-AUTOMATIC GENERATION OF A NATURAL LANGUAGE GRAMMAR FROM A DEVICE DESCRIPTOR



(57) Abstract: A method, system and tool product for creating a grammar (100) for a natural language dialog system from a device description is provided. The system can include a device descriptor (30) for identifying a configuration, interface, object, and attribute information of the device, a speech grammar (26) for identifying one or more rules generated from the device descriptor that are supported by the device, a speech recognition system (24) for invoking rules of the speech grammar, and a processor (28) for facilitating interoperability and development of distributed applications and providing delineated coverage of the one or more rules in view of the device descriptor.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 07/65561

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - G06F 17/28 (2007.10)

USPC - 704/4

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)

USPC: 704/4

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC: 704/3, 4, 257, E15.022 (text search - see terms below)

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

PubWEST(USPT,PGPB,EPAB,JPAB); DialogPRO(Engineering); Google Scholar

Search Terms Used: natural language dialog system, grammar, device descriptor, universal plug and play (UPnP), Home Audio Video interoperability (HAVi), application program interface (API), network connection

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2002/0156616 A1 (RUSSELL) 24 October 2002 (24.10.2002) (abstract, para [0019]-[0021], para [0023]-[0026], para [0033])	1-15
Y	US 2005/0097503 A1 (ZINTEL et al.) 05 May 2005 (05.05.2005) (abstract, para [0009]-[0010], para [0053], para [0056], para [0070]-[0071], para [0078]-[0079], para [0116], para [0217], para [0531], para [0533])	1-15
Y	US 2005/0078679 A1 (HENRY et al.) 14 April 2005 (14.04.2005) (para [0065])	2

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"E" earlier application or patent but published on or after the international filing date

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"P" document published prior to the international filing date but later than the priority date claimed

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"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

"&" document member of the same patent family

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