

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
4 January 2007 (04.01.2007)

PCT

(10) International Publication Number
WO 2007/001637 A3

- (51) International Patent Classification:
G10L 15/18 (2006.01) *G10L 21/06* (2006.01)
- (21) International Application Number:
PCT/US2006/017588
- (22) International Filing Date: 8 May 2006 (08.05.2006)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
11/159,648 23 June 2005 (23.06.2005) US
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- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,

KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

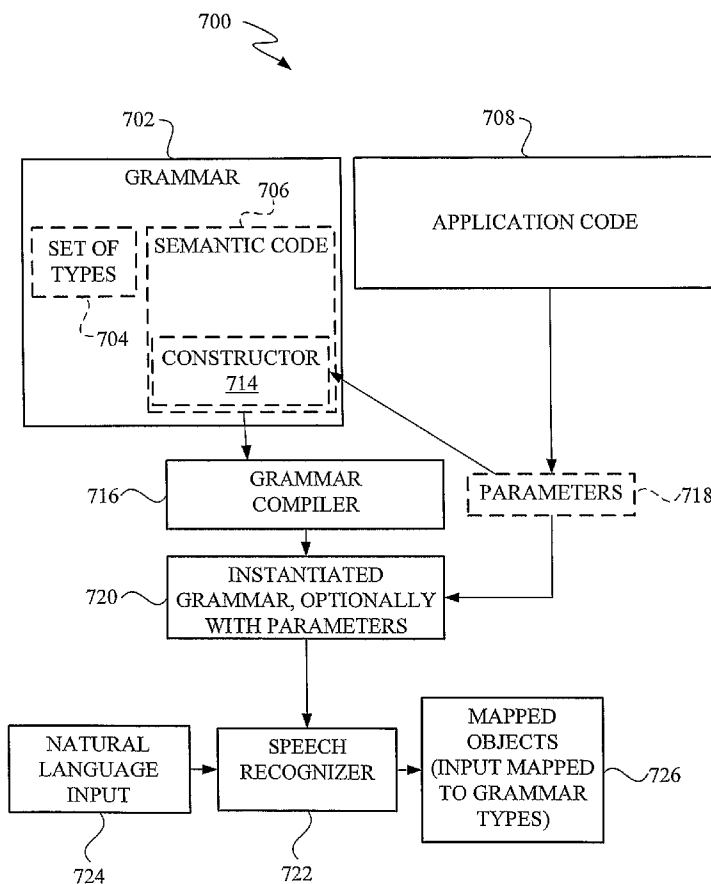
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

Published:

- with international search report

[Continued on next page]

(54) Title: USING STRONG DATA TYPES TO EXPRESS SPEECH RECOGNITION GRAMMARS IN SOFTWARE PROGRAMS



(57) Abstract: In one embodiment, a system for interpretation of natural language inputs to natural language enabled applications has a grammar, a source file, and a speech recognizer. The grammar has a set of data types and semantic code defining rules about the set of data types. The source file includes computer readable code adapted to access the grammar by instantiating selected data types of the set of data types. The speech recognizer is adapted to receive natural language input and to map the natural language input to the selected data types.

WO 2007/001637 A3



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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(88) Date of publication of the international search report:

8 November 2007

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US06/17588

A. CLASSIFICATION OF SUBJECT MATTER
 IPC: **G10L 21/06**(2006.01)

USPC: 704/2,231,232,233,234,235,270,271,272,273,274,275
 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. : 704/2,231,232,233,234,235,270,271,272,273,274,275

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,P	US 6,934,684 A (ALPDEMIR et al) 23 August 2005 (23.08.2005), Abstract, Fig.1, 2, col. 10,28,32,37-38).	1-6
X	US 6,311,159 A (VAN TICHELEN et al) 30 October 2001 (30.10.2001), Fig. 1, 2A, 2B, col. 10.	7-12,15,16,20
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Y		13-14 and 17-19
A	US 6,553,345 A (KUHN et al) 22 April 2003 (22.04.2003).	1-20
A	US 6,314,398 A (JUNQUA et al) 06 November 2001 (06.11.2001).	1-20
A	US 6,022,222 A (GUINANI) 08 February 2000 (08.02.2000).	1-20

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"O" document referring to an oral disclosure, use, exhibition or other means		
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Date of the actual completion of the international search 20 July 2007 (20.07.2007)	Date of mailing of the international search report 13 SEP. 2007
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