

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
17 July 2008 (17.07.2008)

PCT

(10) International Publication Number  
**WO 2008/085857 A3**

- (51) **International Patent Classification:**  
*G06F 17/27* (2006.01)
- (21) **International Application Number:**  
PCT/US2008/000071
- (22) **International Filing Date:** 4 January 2008 (04.01.2008)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**  
60/878,718 4 January 2007 (04.01.2007) US
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- (81) **Designated States (unless otherwise indicated, for every kind of national protection available):** AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA,

CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, 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, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**  
— with international search report  
— with information concerning one or more priority claims considered void  
— with information concerning authorization of rectification of an obvious mistake under Rule 91.1

(88) **Date of publication of the international search report:**  
27 November 2008

(15) **Information about Correction:**

[Continued on next page]

(54) **Title:** PROCESSING TEXT WITH DOMAIN-SPECIFIC SPREADING ACTIVATION METHODS

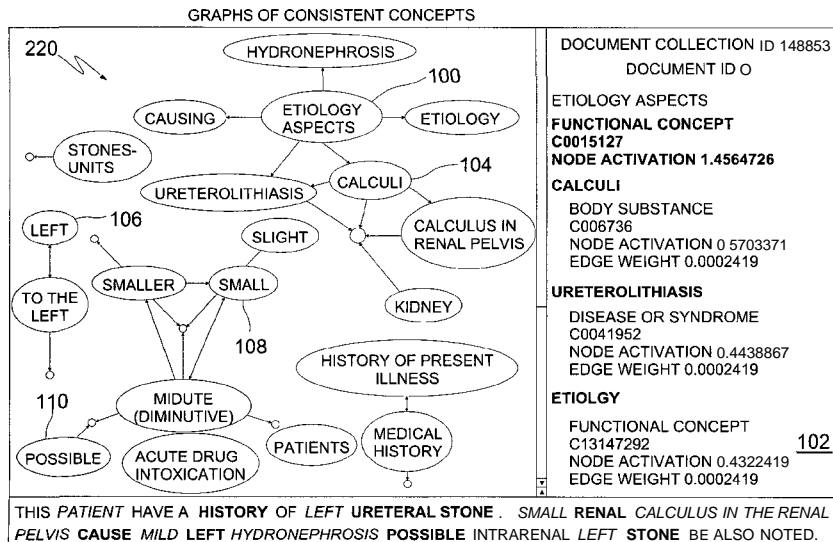


FIG. 8

(57) **Abstract:** A method for performing natural language processing of free text using domain- specific spreading activation. Embodiments of the present invention ontologize free text using an algorithm based on neurocognitive theory by simulating human recognition, semantic, and episodic memory approaches. Embodiments of the invention may be used to process clinical text for assignment of billing codes, analyze suicide notes or legal discovery materials, and for processing other collections of text. Further, embodiments of the invention may be used to more effectively search large databases, such as a database containing a large number of medical publications.

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Previous Correction:  
see Notice of 16 October 2008

## INTERNATIONAL SEARCH REPORT

International application No

PCT/US 08/00071

<b>A CLASSIFICATION OF SUBJECT MATTER</b> IPC(8) - G06F 17/27 (2008.4) <b>USPC - 704/9</b> According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B FIELDS SEARCHED</b>		
Minimum documentation searched (classification system followed by classification symbols) <b>IPC(8) G06F 17/27 (2008 4)</b> <b>USPC 704/9</b>		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched USPC 706/45-46, 50, 707/5-6		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) PubWEST (USPT, PGPB, EPAB, JPAB), Wiley Interscience, CrossRef, Google, Google Scholar Search Terms domain specific spreading activation concept quantitative score weight threshold neural network semantic words tag pediatric clinical billing suicide note attempt		
<b>C DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y	US 6,389,405 B1 (Oatman et al ) 14 May 2002 (14 05 2002) entire document, especially col 6, ln 24-41, col 7, ln 45 to col 8, ln 43, col 20, ln 2-19, col 22, ln 4-16, col 22, ln 30-46, col 23, ln 62 to col 24, ln 5, col 24, ln 24-46	1-22
Y	US 5,963,940 A (Liddy et al ) 05 October 1999 (05 10 1999) entire document, especially col 8, ln 10-27, col 15, ln 17-35, col 22, ln 1 to col 23, ln 39, col 23, ln 51-63, col 24, ln 14-21, col 33, ln 3-9	1-22
Y	US 2005/0273363 A1 (Lipscher et al ) 08 December 2005 (08 12 2005) entire document, especially para [0027], [0032], [0067], [0072], [0079], [0082], [0089], [01 19]	1-15
Y	THE UNIVERSITY OF TEXAS The language of poets could serve as linguistic predictors of suicide, UT Austin professor finds [online] 24 July 2001 [retrieved 13 June 2008 (13 06 2008)] Retrieved from the Internet URL <http://www.utexas.edu/news/2001/07/24/nr_pennebaker/>, pg 1, para 2-3	9, 20
A	US 5,778,157 A (Oatman et al ) 07 July 1998 (07 07 1998) entire document	1-22
<input type="checkbox"/> Further documents are listed in the continuation of Box C <input type="checkbox"/>		
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"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 11 June 2008 (11 06 2008)	Date of mailing of the international search report <b>19 JUL* 2008</b>	
Name and mailing address of the ISA/US Mail Stop PCT, Attn ISA/US, Commissioner for Patents P O Box 1450, Alexandria, Virginia 22313-1450 Facsimile No 571-273-3201	Authorized officer Lee W Young PCT Helpdesk 571 272-4300 PCT OSP 571 272 7774	