

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
20 September 2001 (20.09.2001)

PCT

(10) International Publication Number
WO 01/69527 A2

(51) International Patent Classification⁷: **G06N 5/00**

(21) International Application Number: PCT/US01/07652

(22) International Filing Date: 9 March 2001 (09.03.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09/522,483 10 March 2000 (10.03.2000) US

(71) Applicant: **HONEYWELL INTERNATIONAL INC.**
[US/US]; 101 Columbia Avenue, P.O. Box 2245, Morristown, NJ 07960 (US).

(81) Designated States (*national*): AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

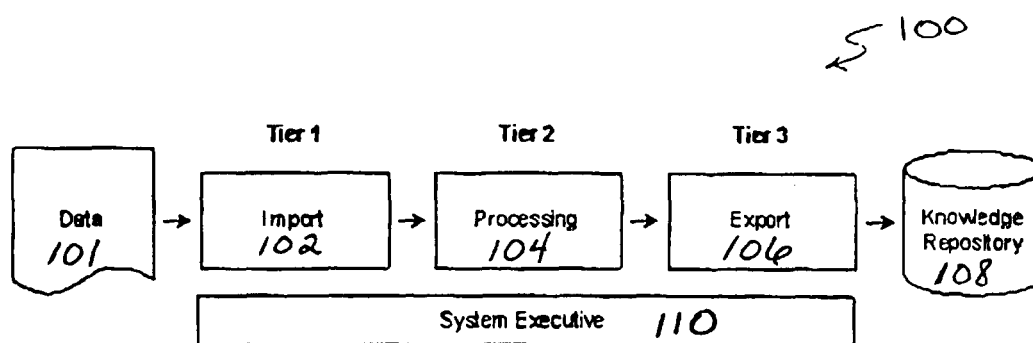
— without international search report and to be republished upon receipt of that report

(72) Inventors: **KRAMER, Kevin, M.**; 3269 129th Lane, Coon Rapids, MN 55448 (US). **VOGES, Harold, C.**; 5840 Daniel Court, Shoreview, MN 55126 (US). **GAETJENS, Steven, C.**; 4009 Foxglove Avenue N., Brooklyn Park, MN 55443 (US).

(74) Agents: **CRISS, Roger, H.** et al.; Honeywell International Inc., 101 Columbia Avenue, P.O. Box 2245, Morristown, NJ 07960 (US).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: TRAINABLE, EXTENSIBLE, AUTOMATED DATA-TO-KNOWLEDGE TRANSLATOR



(57) Abstract: A trainable, extensible, automated data-to-knowledge translator is described. One aspect of the present invention includes a computerized system having at least one repository to store user-specified rules that govern the processing of data by the computerized system and at least one processing module to process data according to the rules and to generate knowledge from the data. Another aspect of the present invention is a computerized method of translating data to knowledge. The computerized method includes providing user-specified rules to govern the behavior of a computerized system for translating data to knowledge, and processing data according to the rules to generate knowledge. A further aspect of the present invention is a computer readable medium having computer-executable instructions stored thereon for executing a method of translating data to knowledge. The computerized method comprises receiving data in an unstructured form, converting the data to a neutral form, processing data according to user-specified rules to translate the data from the neutral form to knowledge, and exporting the knowledge to a knowledge repository.