PCT WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : G06F 9/445, 9/45	A1	(11) International Publication Number: WO 97/15882
		(43) International Publication Date: 1 May 1997 (01.05.97)

(21) International Application Number: PCT/US96/16267

(22) International Filing Date: 10 October 1996 (10.10.96)

(30) Priority Data:
08/549,633 27 October 1995 (27.10.95) US

(71) Applicant: AI*LABS, INC. [US/US]; 8548 Glencairn Lane, Miami Lakes, FL 33016 (US).

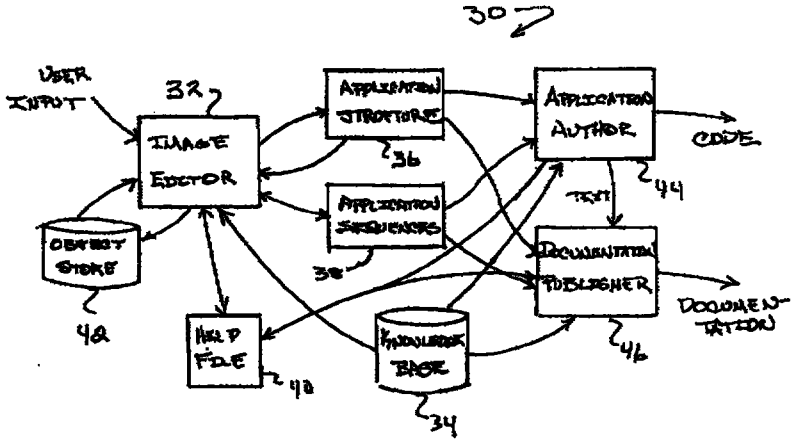
(72) Inventor: STACK, Brian, T.; 8548 Glencairn Lane, Miami Lakes, FL 33016 (US).

(74) Agent: ROSENBERG, Gerald, B.; Fliesler, Dubb, Meyer & Lovejoy, Suite 400, Four Embarcadero Center, San Francisco, CA 94111-4156 (US).

(81) Designated States: AU, BR, CA, CN, GE, IL, KP, MX, RU, SG, UA, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

Published
With international search report.

(54) Title: APPLICATION PROGRAM AND DOCUMENTATION GENERATOR SYSTEM AND METHOD



(57) Abstract

Automatic generation of an application program is performed by a programmed system (30) including a guided editor (32) for establishing program (76), data (74), and field definitions (78) into a plurality of functionally descriptive atomic sequences (38), each describing a unique characteristic such that a plurality of frames, each comprising zero or more functionally descriptive atomic sequences from each of the functionally descriptive sequences, respectfully describes the plurality of input event elements (14). A rule processor (66), including a program rule base (62) conditionally describing the structure and operation of a predetermined application program, autonomously processes the program rule base (62) in concert with the plurality of functionally descriptive atomic sequences (38) proceeding generally sequentially over the plurality of frames conditionally unifying the plurality of functionally descriptive atomic sequences (38) with the structure and operation of the predetermined application program. A syntax processor (22), including a syntax rule base (128) defining the syntax of a predetermined programming language, then autonomously unifies the plurality of functionally descriptive atomic sequences with the syntax of the predetermined programming language, then autonomously unifies the plurality of functionally descriptive atomic sequences (38) with the syntax of the predetermined programming language to provide a coded representation (24) of the structure and operation of the predetermined application program.