11 NOV 2002

GREENBERG
MAR 13 2001
IP DEPT.

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

CORRECTED VERSION

(19) World Intellectual Property Organization
International Bureau

G00002

(43) International Publication Date
25 November 1999 (25.11.1999)

PCT

(10) International Publication Number
WO 99/60487 A1

(51) International Patent Classification[6]: G06F 15/163, 9/00, 9/46

(21) International Application Number: PCT/US99/10711

(22) International Filing Date: 14 May 1999 (14.05.1999)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/085,539 15 May 1998 (15.05.1998) US

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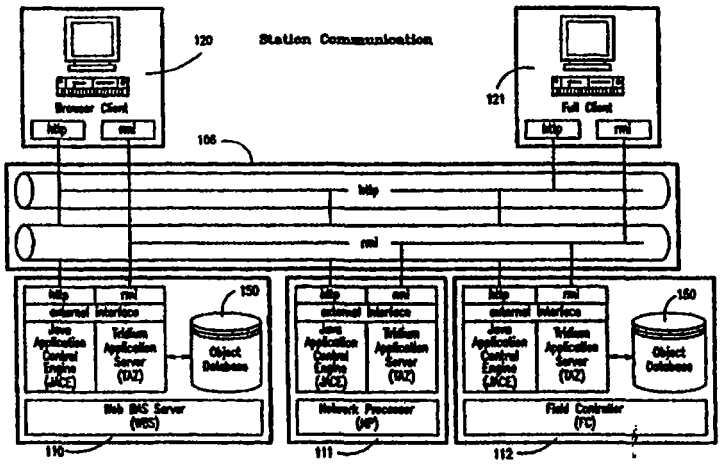
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(81) Designated States *(national)*: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL,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

(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, 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), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: SYSTEM AND METHODS FOR OBJECT-ORIENTED CONTROL OF DIVERSE ELECTROMECHANICAL SYSTEMS USING A COMPUTER NETWORK



(57) Abstract: A control system methodology uses object-oriented software to integrate multiple control systems into a common object model. Object-oriented techniques are used to construct distributed Java-based applications in a multi-vendor open system environment for use in controlling and monitoring systems of varying size and configuration. The system provides both a browser client (101) (running on a Java-enabled browser) and a server client (121). The present invention has multiple stations: a Web BAS Server (110), a Network Processor (NP) (111), and a Field Controller (FC) (112). The NP and FC are preferably Java Virtual Machines implemented in a plug-in Java Modular Environment. Information is brought into a common object model and made available throughout the system. A custom programming language based on Java is provided for object creation, with access to

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WO 99/60487 A1

11 NOV 2002

WO 99/60487 A1

Published:
— *With international search report.*

(48) Date of publication of this corrected version:
1 March 2001

(15) Information about Correction:
see PCT Gazette No. 09/2001 of 1 March 2001, Section II

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.