

03/08/04

2004044228

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

CORRECTED VERSION

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
28 August 2003 (28.08.2003)

PCT

(10) International Publication Number
WO 03/071444 A1(51) International Patent Classification⁷: **G06F 15/167**,
G09G 5/02, 5/00

(21) International Application Number: PCT/US03/04803

(22) International Filing Date: 18 February 2003 (18.02.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/357,329 15 February 2002 (15.02.2002) US(71) Applicant (for all designated States except US): **TRIDIUM, INC.** [US/US]; Suite 350, 3951 Westerre Parkway, Richmond, VA 23223 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **FRANK, Brian, Spencer** [US/US]; 1513 Hanover Avenue, Richmond, VA 23220 (US). **SUBLETT, John, W.** [US/US]; 2718 Windingdale Drive, Richmond, VA 23233 (US).(74) Agents: **LEASON, David** et al.; Darby & Darby P.C., Post Office Box 5257, New York, NY 10150-5257 (US).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,

CZ, DE, DK, DM, DZ, EC, 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, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

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

Published:

— with international search report

(48) Date of publication of this corrected version:

16 October 2003

(15) Information about Correction:

see PCT Gazette No. 42/2003 of 16 October 2003, 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.



162162



ACTION

WO 03/071444 A1

(54) Title: COMPONENT MODEL FOR REAL TIME SYSTEM CONTROL

(57) Abstract: A component based software program, where each component is based on a component-type. Component-types are created from base classes comprising slot definitions. The slot definitions are identified and stored in a component-type object. One or more components of the component-type are created, each comprising a reference to a component type object and a slotmap having storage locations for values associated with property slots definitions, in the component-type object. Values for property slots are entered into components by being placed in the storage locations. Also disclosed is a method for automatically designating unique names to components. One root component is created. Further non-root components are placed within the root component or within other components, so that all components form a tree structure. A component is assigned a unique identification string, comprising a sequential list of all of the component's ancestors and the component's name.