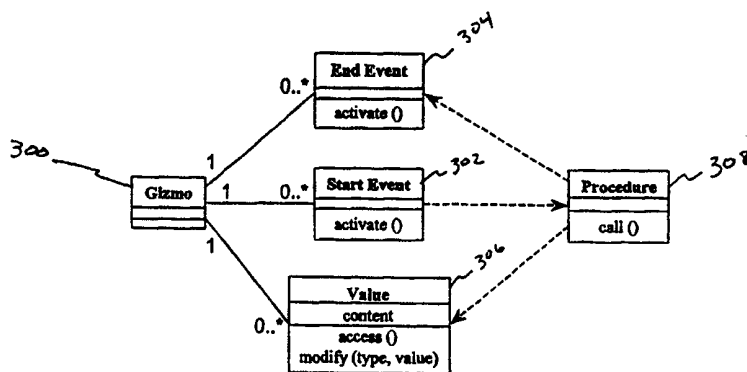




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(54) Title: AN INTRINSICALLY PARALLEL PROGRAMMING SYSTEM AND METHOD USING PROCEDURAL OBJECTS



(57) Abstract

A system and method of programming using procedural objects referred to as gizmos (300), where each gizmo includes an underlying procedure (308) and at least one associated component. Each component is a value (306) or an event (302, 304). The gizmo instances (300) are preferably self-contained copies of underlying stored gizmos. A user creates new gizmos with new functionality by linking or "stitching" components of gizmo instances together, where stitched components become equivalent. Value components are stitched to other value components and event components are stitched to other event components. When any stitched value is updated by the user or by a procedure, the other values stitched therewith are updated automatically. Also, when any stitched event is activated, the other events stitched therewith are automatically activated. The combined stitching is referred to as a "fabric", which is a collection of related stitches.

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US99/26474

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) :G06F 09/54
US CL :709/318; 709/315

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 709/318; 709/315

Documentation searched other than minimum documentation to the extent that such documents are included in the fields search.

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim
A	US 5,754,737 A (GIPSON) 19 MAY 1998.	1-34
A	US 5,499,364 A (KLEIN ET AL.) 12 MARCH 1996	1-34
A	US 5,305,454 A (RECORD ET AL) 19 APRIL 1994.	1-34

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Authorized officer

ALVIN OBERLE *James R. Matthews*

Telephone No. (703) 305-9716