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(54) Title: PROGRESSIVELY IMPLEMENTING DECLARATIVE MODELS IN DISTRIBUTED SYSTEMS

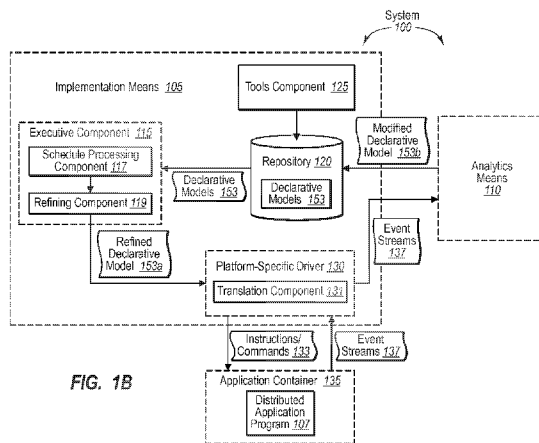


FIG. 1B

(57) Abstract: A system for automatically implementing high-level instructions in a distributed application program, where the high-level instructions reflect the behavior of the distributed application program, includes at least a tools component. The tools component is used to write high-level instructions in the form of declarative models, and place them in a repository. An executive component then receives the declarative models from the repository and refines them (e.g., via progressive elaboration) until there are no ambiguities. A platform-specific driver then translates the commands from the executive component, effectively turning the declarative model instructions into a set of imperative actions to be implemented in one or more application containers. The platform-specific driver also relays one or more event streams to an analytics means, which can result in modifications to the declarative models and corresponding new sets of instructions coming through the platform-specific driver at a later point.

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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)

IPC : G06F

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

Korean Utility models and applications for Utility models since 1975

Japanese Utility models and applications for Utility models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKIPASS(KIPO internal) "distributed", "application", "program", "automatically", "implementing", "high-level", "instruction", "program", "module", "application", "container"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6854069 B2(MARK A. KAMPE et al.) 8 February 2005 See abstract; claims 1-25.	1-20
A	US 2007-0088724 A1(BEKIM DEMIROSKI et al.) 19 April 2007 See abstract; figure 3.	1-20
A	US 7200530 B2(MATHILDA C. BROWN et al) 3 April 2007 See abstract.	1-20
A	US 2002-0147962 A1(IWAI HATANAKA) 10 October 2002 See abstract.	1-20

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:

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"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

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