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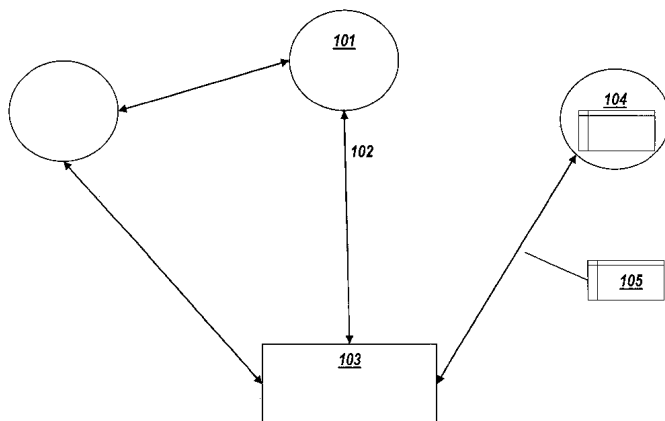
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(54) Title: PROCESS ENTITY GRAPHS

FIG. 1 CONCEPTUAL ENTITY GRAPH 100



(57) Abstract: Implementing a process in an automation platform. Representing conceptual entities of the process as a nodes in a conceptual graph. Representing process relationships between the conceptual entities as edges between the nodes of the conceptual graph. Transforming the conceptual graph into a structural graph representing an automation design of the process. Transforming the structural graph into implementation artifacts executable on the automation platform. Entities can represent a feature, a constraint, a project phase, a screen, a data item, and a process description. Relationships can include a dependency relationship, a temporal relation-ship, and a parent-child relationship. The transformation into a structural graph being traceable between elements of the conceptual graph and the structural graph. The transformation into a structural graph controlled by a first configuration information. The transformation into a implementation artifacts controlled by a second configuration information.



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A. CLASSIFICATION OF SUBJECT MATTER*G06F 9/44(2006.01)i, G06F 9/06(2006.01)i, G06F 17/30(2006.01)i*

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

G06F 9/44; G06F 15/16; G06F 17/30; G06F 17/28; G06F 15/18

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

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) & Keywords: entity, node, relationship, structural graph, etc.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 7480640 B1 (ELAD JOSEPH B. et al.) 20 January 2009 See abstract, claims 31-35, 40, 46, 51-52, 56-59 and figures 1-3.	1-8
A	US 2009-0006467 A1 (VISSCHER RONALD SCOTT) 01 January 2009 See abstract, claims 1, 12 and figure 1.	1-8
A	US 2008-0281915 A1 (ELAD JOSEPH B. et al.) 13 November 2008 See abstract, claims 1-10 and figures 1, 8.	1-8
A	US 2005-0278164 A1 (RICHARD HUDSON et al.) 15 December 2005 See abstract, claims 1-15 and figures 1-3.	1-8

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

* Special categories of cited documents:

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US 7480640 B1	20.01.2009	None	
US 2009-0006467 A1	01.01.2009	None	
US 2008-0281915 A1	13.11.2008	US 7890549 B2	15.02.2011
US 2005-0278164 A1	15.12.2005	EP 1460562 A1	22.09.2004