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(54) Title: DYNAMICALLY ORGANIZING CLOUD COMPUTING RESOURCES TO FACILITATE DISCOVERY

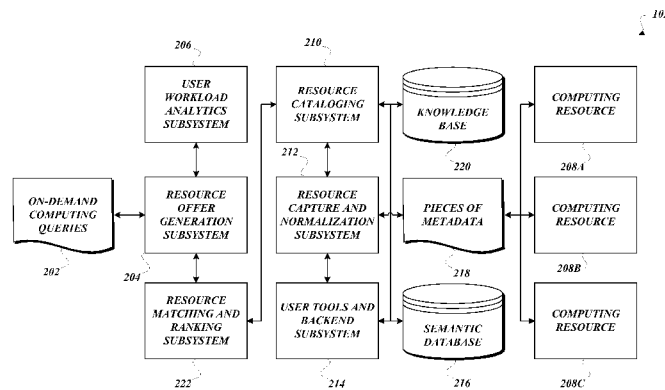
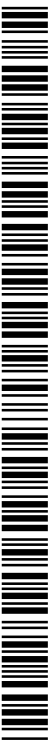


Fig.2.

(57) Abstract: Pieces of hardware on which pieces of software are executed are configured to organize computing resources from different computing resource providers so as to facilitate their discovery. A catalog, which stores instances of cloud computing resources and their providers, and a knowledge base, which stores types of computing resources including rules which reveal their discovery, are formed by the software. A curating method is performed to enable semantic search including searching for cloud computing resources that in combination cooperate to satisfy a workload or a task in addition to having a simple computational function. Semantic indexing is performed to facilitate the semantic search.



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A. CLASSIFICATION OF SUBJECT MATTER**G06F 17/30(2006.01)i, G06F 17/40(2006.01)i, G06F 15/16(2006.01)i**

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)

G06F 17/30; G06F 15/16; G06F 15/173; G06F 12/00; G06F 9/455

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: cloud, catalog, resource, semantic

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2008-0082782 A1 (HENRICUS JOHANNES MARIA MEIJER et al.) 03 April 2008 See abstract; paragraphs[0033-0045,0052-0061]; claim 16 and figures 1,2,4,5.	1-20
A	US 2010-0306767 A1 (MICHAEL PAUL DEHAAN) 02 December 2010 See abstract; paragraphs[0017-0043]; figure 1.	1-20
A	US 2010-0125669 A1 (KOUROS HODAEI ESFAHANY et al.) 20 May 2010 See abstract; paragraphs[0035-0051]; figures 2-7.	1-20
A	US 2010-0042720 A1 (FRANK STIENHANS et al.) 18 February 2010 See abstract; paragraphs[0019-0033]; claim 7 and figures 2-3.	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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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2008-0082782 A1	03.04.2008	US 2008-0082490 A1 US 7836056 B2	03.04.2008 16.11.2010
US 2010-0306767 A1	02.12.2010	None	
US 2010-0125669 A1	20.05.2010	US 2010-0125664 A1 US 8069242 B2	20.05.2010 29.11.2011
US 2010-0042720 A1	18.02.2010	None	