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(54) Title: METHOD AND SYSTEM FOR SORTING DATA IN A CLOUD-COMPUTING ENVIRONMENT AND OTHER DISTRIBUTED COMPUTING ENVIRONMENTS

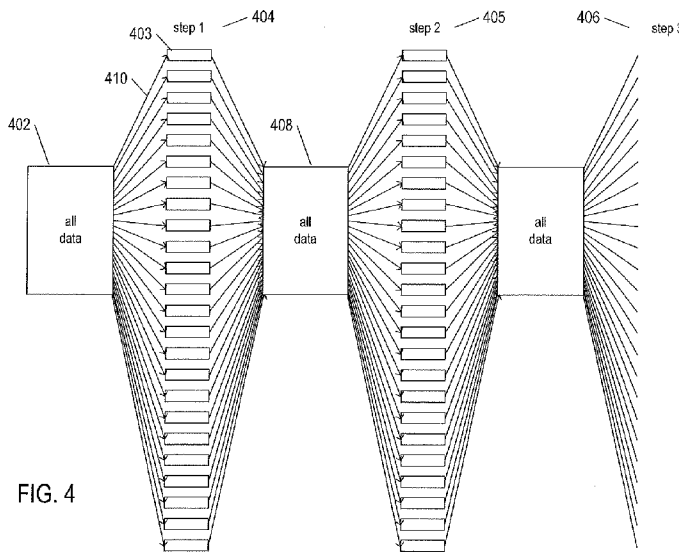


FIG. 4

(57) Abstract: The current document is directed to a method and system for data processing in cloud-computing environments and other distributed-computing environments. Implementations of a merge sort suitable for the sorting of data within cloud-computing environments and other distributed-computing environments are disclosed. These implementations take advantage of the massive parallelism available in cloud-computing environments as well as take into consideration numerous constraints regarding data-storage and data-retrieval operations in a cloud-computing environment. The implementations provide a type of data-sorting method and system that iteratively carries out highly parallel merge-sort operations that can be effectively applied over a range of data-set sizes up to extremely large data sets.



INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2013/044615**A. CLASSIFICATION OF SUBJECT MATTER****G06F 17/30(2006.01)i, G06F 15/16(2006.01)i**

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

B. FIELDS SEARCHEDMinimum documentation searched (classification system followed by classification symbols)
G06F 17/30; G06F 3/06; G06F 7/08; G06F 7/00; G06Q 30/00; G06F 9/00; G06F 9/50; G06F 15/16Documentation 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 modelsElectronic data base consulted during the international search (name of data base and, where practicable, search terms used)
eKOMPASS(KIPO internal) & Keywords: distributed system, sort, merge, data, key and similar terms.**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2008-0086442 A1 (ALI DASDAN et al.) 10 April 2008 See paragraphs 4, 10-33, 40; and figures 1-3.	1-3,9-11
A		4-8,12-16
A	US 2003-0177161 A1 (MICHAEL ROTHSCHILD et al.) 18 September 2003 See paragraphs 24-52; and figure 1.	1-16
A	US 5842207 A (SHINJI FUJIWARA et al.) 24 November 1998 See column 4, line 47 - column 5, line 50; and figures 1, 3.	1-16
A	US 2011-0004521 A1 (AMIR BEHROOZI et al.) 06 January 2011 See paragraphs 35-51; and figures 3-4.	1-16
A	WO 2011-120791 A1 (INTERNATIONAL BUSINESS MACHINES CORPORATION) 06 October 2011 See page 4, line 28 - page 5, line 30; and figures 1-4.	1-16

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

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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
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