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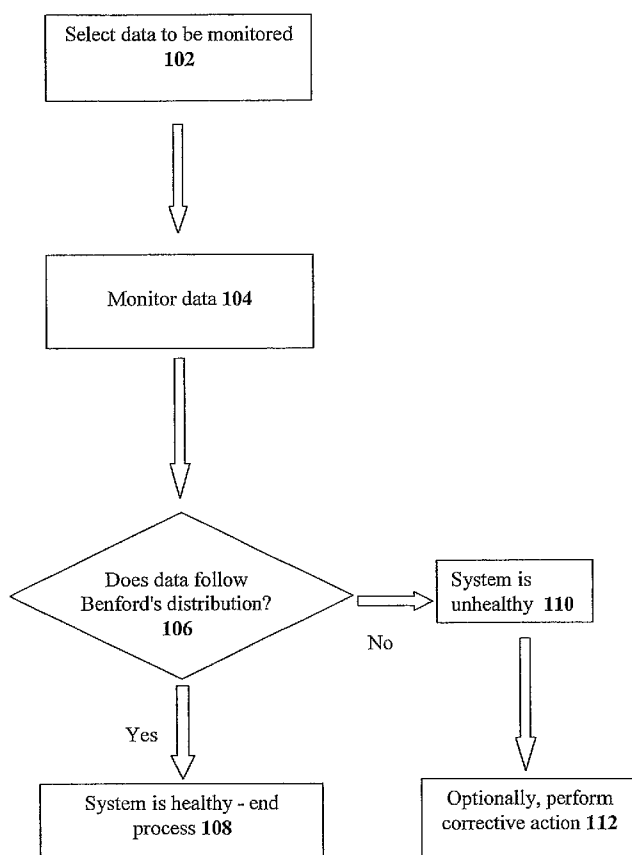
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(54) Title: METHOD FOR MEASURING HEALTH STATUS OF COMPLEX SYSTEMS



(57) Abstract: A method for indicating a system health status includes steps of selecting data to be monitored (102), monitoring the data (104) to obtain a monitored data distribution (106) that includes first non-zero digits of data values, obtaining a correlation value between the monitored data distribution and a Benford distribution and providing a system status indication based on the correlation value. If the correlation value is lower is higher than a given value the system is deemed healthy (108). Otherwise, the system is deemed as having potentially an impending malfunction, failure or unexpected behavior (110).

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC: **G08B 21/00**(2006.01),**23/00**(2006.01)

USPC: 340/679,579,500,501

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. : 340/679,579,500,501

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

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,774,786 B1 (HAVEKOST et al.) 10 August 2004 (10.08.2004), entire document.	1-20
Y	US 2003/0135741 A1 (NURIYEV) July 17 2003 (17.07.2003), paragraph 0067.	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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