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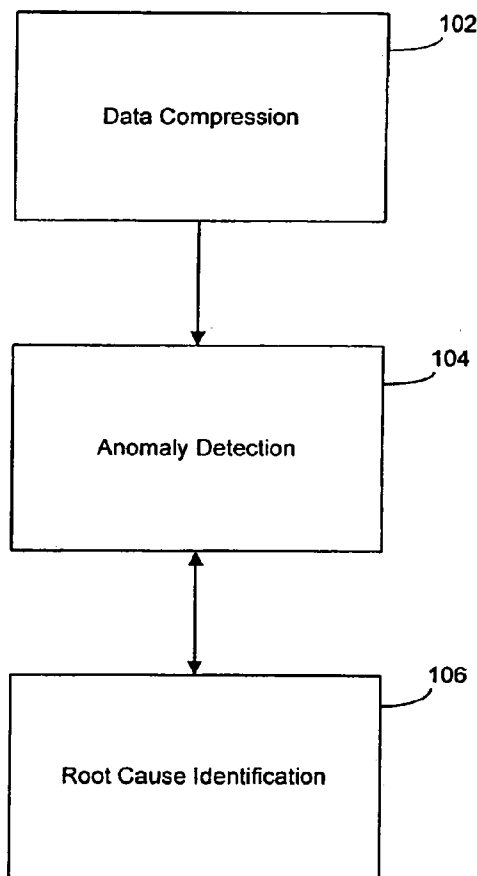
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MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL,
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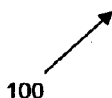
[Continued on next page]

(54) Title: METHOD AND SYSTEM FOR ANOMALY DETECTION



(57) Abstract: A system and method for detecting anomalies in a system are described. The system incorporates a diagnostic agent. The diagnostic agent identifies a current operational region of the system and determines current performance based on a local model of normal system performance in that region.

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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)
G05B

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 practical, 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.
X	ABONYI J ET AL: "Process analysis and product quality estimation by Self-Organizing Maps with an application to polyethylene production" COMPUTERS IN INDUSTRY, ELSEVIER SCIENCE PUBLISHERS. AMSTERDAM, NL, vol. 52, no. 3, December 2003 (2003-12), pages 221-234, XP004460612 ISSN: 0166-3615	1, 9, 10, 13-15, 17-20, 24, 28, 30, 32, 37, 38
Y	page 225, left-hand column, line 30 - page 226, left-hand column, line 14 ----- -/--	16

Further documents are listed in the continuation of Box C.

See patent family annex.

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	LENDASSE A ET AL: "Vector quantization: a weighted version for time-series forecasting" FUTURE GENERATIONS COMPUTER SYSTEMS, ELSEVIER SCIENCE PUBLISHERS. AMSTERDAM, NL, vol. 21, no. 7, July 2005 (2005-07), pages 1056-1067, XP004923786 ISSN: 0167-739X page 1059, left-hand column, line 19 - line 25	16
A	JEONGHO CHO ET AL: "Local hammerstein modeling based on self-organizing map" NEURAL NETWORKS FOR SIGNAL PROCESSING, 2003. NNSP'03. 2003 IEEE 13TH WORKSHOP ON TOULOUSE, FRANCE SEPT. 17-19, 2003, PISCATAWAY, NJ, USA, IEEE, 17 September 2003 (2003-09-17), pages 809-818, XP010712545 ISBN: 0-7803-8177-7	