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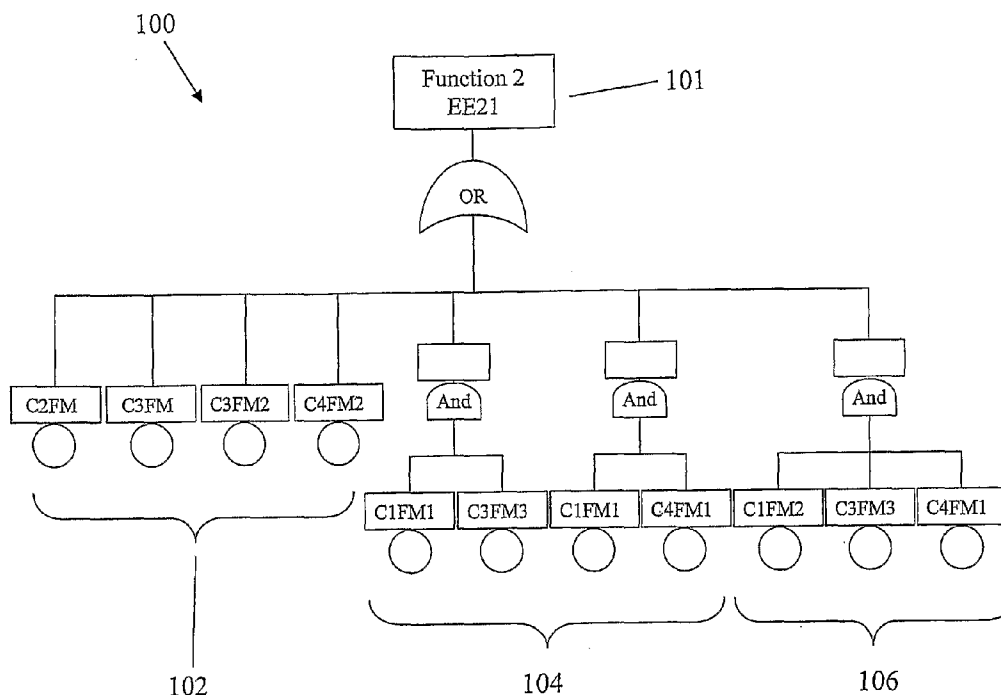
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[Continued on next page]

(54) Title: A SYSTEM AND METHOD FOR BOUNCING FAILURE ANALYSIS



(57) Abstract: A method for analyzing fault modes (base elements of 102, 104 and 106) that may cause a fault (101). Multi-point analysis (indicated by the uniquely configured AND and OR gates of the figure) may be performed to identify multi-point fault modes that contribute to causing the fault. The method provides for easy and systematic switching from a top-down to bottom-up approach of analysis to ensure accurate and easy multi-point analysis of the multi-point fault nodes.

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(15) **Information about Correction:**

Previous Correction:

see PCT Gazette No. 41/2006 of 12 October 2006

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL06/00083

A. CLASSIFICATION OF SUBJECT MATTER
 IPC: **G06F 11/00**(2007.01),**11/07**(2007.01),**11/32**(2007.01)

 USPC: 714/26,39
 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. : 714/25,26,37,39

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)
 Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,282,212 A (SHAH et al) 25 January 1994 (25.01.1994), column 2 lines 28-31, column 3 lines 26-65, column 4 lines 36-42, column 5 lines 44-47, column 7 lines 62-66, column 8 lines 37-41.	1, 3-4
Y	US 5,313,386 A (COOK et al) 17 May 1994 (17.05.1994), abstract, column 1 lines 52-54, column 2 lines 1-11 and 62-68.	1, 3-4
A	US 5,187,785 A (SHAH) 16 February 1993 (16.02.1993).	1-4
A	US 5,581,694 A (IVERSON et al) 3 December 1996 (03.12.1996).	1-4
A	5,592,614 A (PETERS) 7 January 1997 (07.01.1997).	1-4

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

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent family

Date of the actual completion of the international search 07 November 2006 (07.11.2006)	Date of mailing of the international search report 29 JAN 2007
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Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201	Authorized officer <i>Scott Baderman</i> Scott Baderman Telephone No. 571-272-2100
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INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL06/00083

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. Claims Nos.: 5
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
 2. As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of any additional fees.
 3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

 4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
- Remark on Protest**
- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
 - The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
 - No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IL06/00083

Continuation of B. FIELDS SEARCHED Item 3:

IEEE

search terms: (fault or error or failure) and (sequentially or concurrently or simultaneously) and tree