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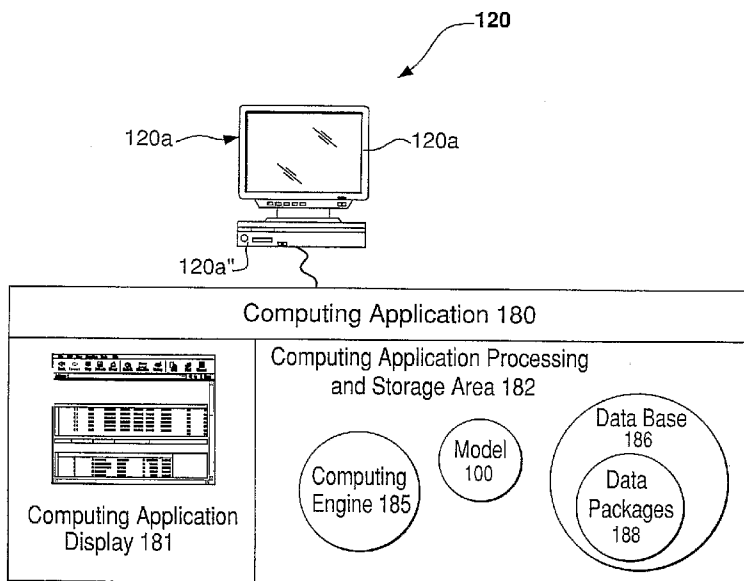
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- (71) Applicant (for all designated States except US): **ABB RESEARCH LTD.** [CH/CH]; P.O. Box 8231, CH-8050 Zürich (CH).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **SMILEY, Karen, J.** [US/US]; 4515 Johns Court, Benson, NC 27504 (US). **SUTTON, John, C.** [US/US]; 116 Spring Hollow, Cary, North Carolina (US). **LONG, Thomas, E.** [US/US]; 1500 River Mill Drive, Unit 301, Wake Forest, NC 27587 (US). **COX, David, N.** [US/US]; 4508 Wellington Down, Raleigh, NC 27613 (US).

- (74) Agents: **SAMUELS, Steven, B.** et al.; Woodcock Washburn LLP., One Liberty Place, 46th Floor, Philadelphia, PA 19103 (US).
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[Continued on next page]

(54) Title: METHOD FOR GENERATING AND USING A TRANSFORMER MODEL



(57) Abstract: A preferred method for generating a transformer model includes defining a database (186) by selecting a first and second set of parameters (186) for inclusion in the database (186), the first set of parameters being represented of at least one of as designated and as built transformer data, the second set of parameters being representative of transformer performance data. The preferred method also includes storing data from a plurality of transformers in the database (186) the data from a plurality of transformers corresponding to the first and second sets of parameters (188). The preferred method further includes determining interrelationship between the first and second set of parameters by analyzing the data from a plurality of transformers using multivariate statistical analysis.

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*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.

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**A. CLASSIFICATION OF SUBJECT MATTER**

IPC: **G06F 17/10**( 2006.01)  
G06F 17/50( 2006.01)

USPC: 703/2;707/100

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. : 703/2;707/100

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)  
IEEE, Google, Goolge Scholar, INSPEC, ProQuest Dissertation, EAST

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,587,917 A (Elms) 24 December 1996 (24.12.1996), column 3, line 44.	1-43
Y	Luiz et al., The Application of Intelligent Systems in Power Transformer Design 2002 IEEE. pg. 285-290.	1-43
Y	US 4,771,630 A (Croce et al) 9 September 1998 (9.06.1988), column 11, line 69.	1-43
Y	US 5,905,985 A (Malloy et al) 18 May 1999 (18.05.199), column 4, lines 26-27.	9

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

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"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
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"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

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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 Anthony Knight Telephone No. 571-272-1400
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