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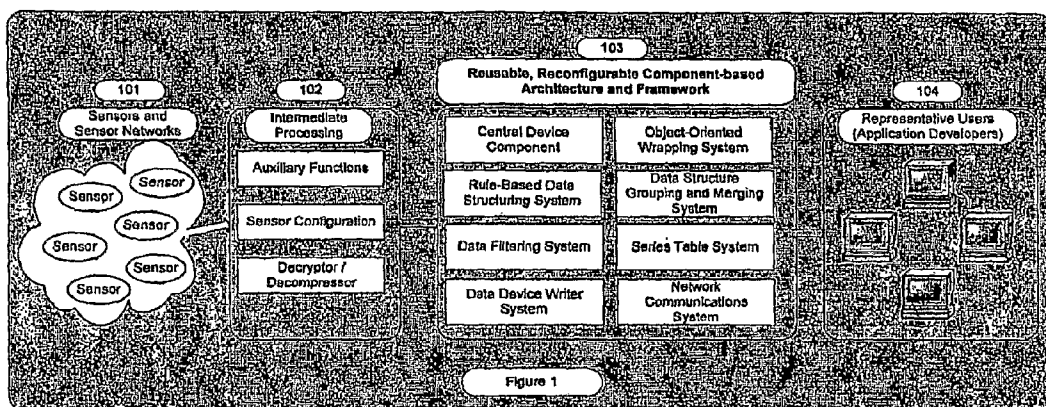


Figure 1

(57) Abstract: A reconfigurable, hierarchical component-based architecture and framework for rapidly developing sensor device enabling software applications can have a rule-based data structuring system, a series table system, and a system of acquiring data from a data provider. User defined relationships can be established to enable exchange of data between the rule-based data structuring system, the series table system, the system of acquiring data, another rule-based data structuring system, an object oriented wrapping system, a data filtering system, a data structure grouping and merging system, a data device writer system, and a network communications system. Each system can have components and subcomponents by which the user defined relationships can be established, for example by embedding components of various systems within the rule-based data structuring system, and/or other systems, and/or by setting a property value to link components of the systems with a component of the rule-based data structuring system and/or other systems.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
 IPC(8) - G06F 15/00 (2007.01)
 USPC - 702/127
 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)
 IPC(8): G06F 15/00 (2007.01)
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
 USPC: 702/1, 85, 108; 73/1.01, 324/76.11, 312; 713/1

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 Electronic databases: USPTO WEST (PGPB, USPT, EPAB, JPAB); DIALOG PRO
 Search Terms Used: data structure, hierarchial or tree structure or components or subcomponents, sensor data or information, sensor data or information, wrapping or filtering or merging, software or application or network, rules or tables etc.


C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2005/0080814 A1 (Hailey et al.) 14 April 2005 (14.04.2005), entire document, especially Abstract, and [0006]-[0011], [0059]-[0065], [0074]-[0077]	1-6, 17-19, 73-78, and 86-91
Y	US 2006/0117251 A1 (Rothschiller et al.) 01 June 2006 (01.06.2006), entire document, especially Abstract, and para [0009]-[0014], [0036]-[0038], [0048]-[0054])	1-6, 17-19, 73-78, and 86-91
A	US 2004/0117393 A1 (DeMesa et al.) 17 June 2004 (17.06.2004)	1-144
A	US 6,836,890 B1 (Watts, Jr. et al.) 28 December 2004 (28.12.2004)	1-144
A	US 4,864,497 A (Lowry et al.) 05 September 1989 (05.09.1989)	1-144

Further documents are listed in the continuation of Box C.

* Special categories of cited documents:	"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
"A" document defining the general state of the art which is not considered to be of particular relevance	"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
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"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)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
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