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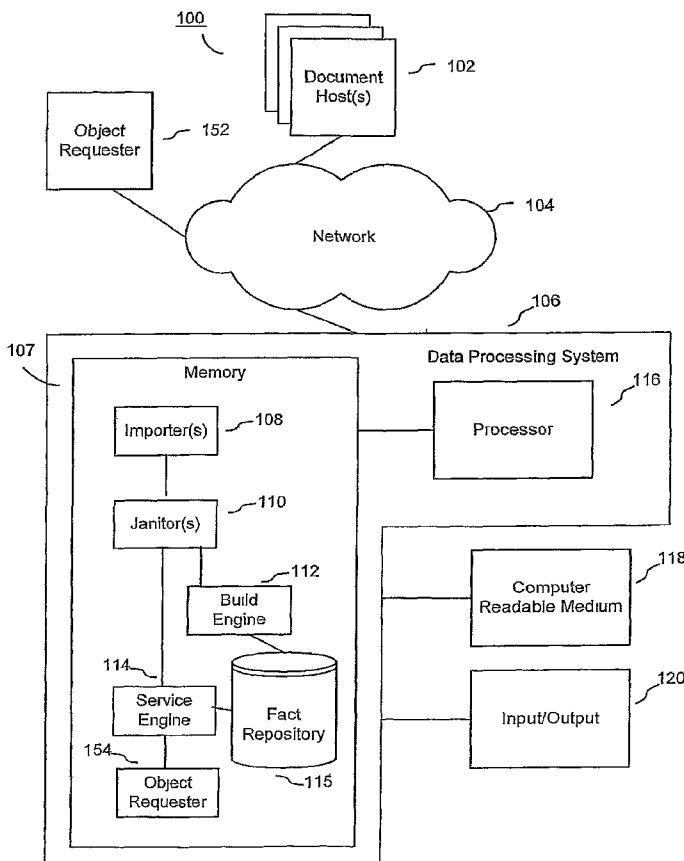
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(54) **Title:** DATA OBJECT VISUALIZATION USING MAPS



(57) **Abstract:** A fact repository stores objects. Each object includes a collection of facts, where a fact comprises an attribute and a value. A set of objects from the fact repository are designated for analysis. The presentation engine presents the facts of the objects in a user interface (UI) having a table. Through manipulation of the UI, an end-user can add or remove facts from the table, and sort the table based on the values of particular facts. The presentation engine also presents the facts of the objects in a UI having a graph. Through manipulation of the UI, the end-user can add or remove facts from the graph, and can sort the facts shown in the graph based on values that are shown, or not shown, in the graph. The presentation engine can further present the facts of the objects in UIs including maps and timelines.

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<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) 707/102 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched USPC- 707/100, 104 1 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) PubWEST (PGPB ,USPT ,USOC ,EPAB ,JPAB), Google Scholar - terms- facts, objects, attributes, map, geographS, scorS, relevant, correct, similar, querS		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X ----- Y	US 2004/0122844 A1 (MALLOY et al) 24 June 2004 (24 06 2004), para [01 10], [0149], [0147], [0175], [0153], [0058], [0059]) [0029], [0077], [01 17], [0091]-[0099], [0139], [0169] and [0181]	1-3, 7-9, 13-15 and 18 ----- 4-6, 10-12 and 16-17
Y	US 6,327,574 B1 (KRAMER et al) 04 December 2001 (04.12.2001), col 31, ln 6-25, col 21, ln 51-61 , col 23, ln 15-28 and 54-62 and col 24, ln 1-35.	4-6, 10-12 and 16-17
A	US 6,850,896 B1 (KELMAN et al) 01 February 2005 (01 02 2005), col 4-14.	1-18
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/>		
* Special categories of cited documents "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "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) "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	"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 "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 "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 "&" document member of the same patent family	
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