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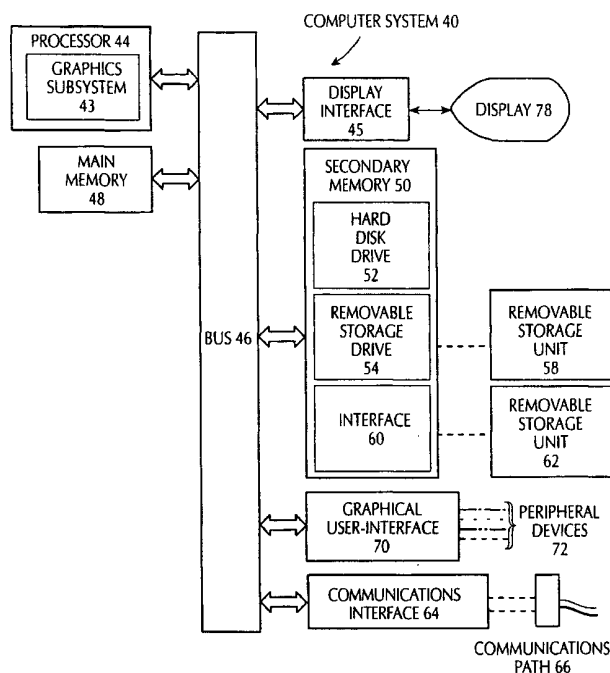
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[Continued on next page]

(54) Title: MULTIDIMENSIONAL INFORMATION VISUALIZATION USING ATTRIBUTE RODS



(57) Abstract: A system for browsing multidimensional information includes a digital data storage circuit (48) that stores the multidimensional information in a database and a digital logic circuit (44) that imports, manipulates and outputs the multidimensional information in the database in accordance with a mapping model maps each dimension of multidimensional information space to a location in abstract physical space, and a user interface (70) interactively accepts input from a user and, using the mapping model, renders a graphical representation (78) of the multidimensional information space. The graphical representation (78) is responsive to input of user-initiated restrictions on the multidimensional information space by effecting corresponding visible manifestations in the graphical representation (78).



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# INTERNATIONAL SEARCH REPORT

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## A. CLASSIFICATION OF SUBJECT MATTER

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US CL : 345/738, 760, 771, 782, 678, 663, 586, 664, 757; 707/210, 10, 103

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## B. FIELDS SEARCHED

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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)

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## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A, E	US 6,219,049 B1 (Zuffante et al) 17 April 2001, entire patent	1-54
A, E	US 6,212,530 B1 (Kadlec) 3 April 2001, entire patent	1-54
A, P	US 6,134,552 A (Fritz et al) 17 October 2000, entire patent	1-54
A, E	US 6,038,566 A (Tsai) 14 March 2000, entire patent	1-54
A	US 5,815,154 A (Hirschtick et al) 29 September 1998, entire patent	1-54
X	US 5,986,673 A (Martz) 16 November 1999, entire patent	1, 10, 19, 28, 37, 46

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

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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		

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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.
A	US 5,918,232 A (Pouschine et al) 29 June 1999, entire patent	1-54