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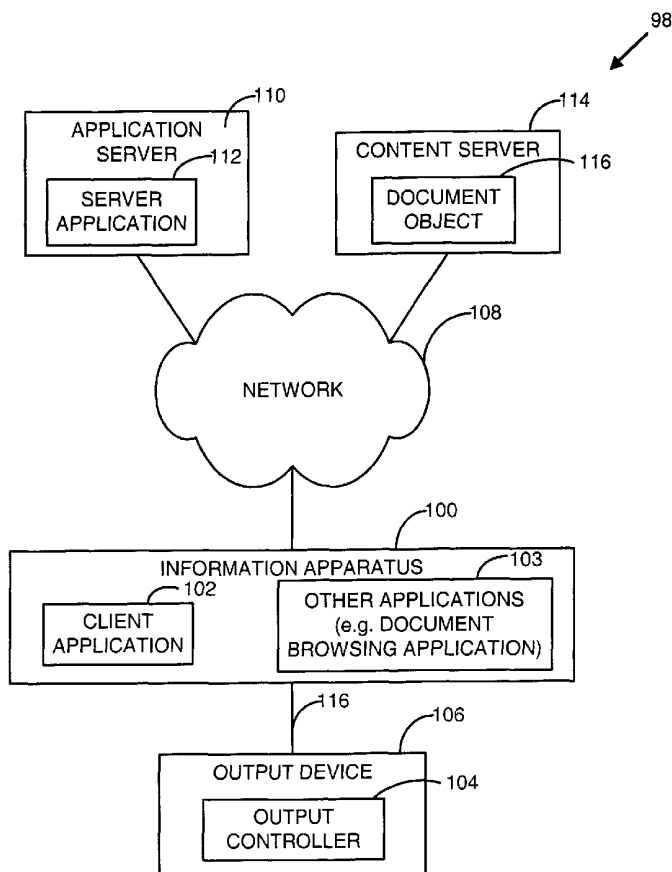
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[Continued on next page]

(54) Title: SYSTEMS AND METHODS FOR MOBILE AND PERVASIVE OUTPUT



(57) Abstract: Pervasive output capability is provided so that an information apparatus (100) can pervasively output digital content to an output device (106) regardless of the processing power, display screen size and memory space of the information apparatus (100). This allows small mobile devices with limited display, processing power, and memory to be able to output a digital document (e.g., PDF, HTML, PowerPoint etc) in its full original richness, without resorting to downsizing, truncating, reducing, clipping or otherwise altering the original document. A data output system for rendering at an output device (106) output content managed from an information apparatus (100) may include means for obtaining a document object (116) relating to the output content managed from the information apparatus and means for obtaining an output device object with one or more attributes corresponding to the output device. The document object and the output device object may be provided to a server application (110) that is operated on a server (114) that is distinct from the information apparatus (100) and the output device (106) and that generates output data employing at least partly the document object (106) and the output device object. The output data is then provided to the output for rendering the output content.



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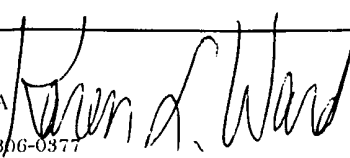
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INTERNATIONAL SEARCH REPORT

International application No.  
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<b>A. CLASSIFICATION OF SUBJECT MATTER</b>		
IPC(7) :G06F 15/00 US CL :358/1.15 According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b>		
Minimum documentation searched (classification system followed by classification symbols) U.S. : 358/1.1, 1.9, 1.13, 1.15, 1.17,4 07, 4+8, 468, 540		
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)		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y,E	US 6,369,909 B1 (SHIMA) 09 April 2002, whole document.	1-152
Y	US 6,145,031 A (MASTIE et al.) 07 November 2000, whole document.	1-152
Y	US 5,978,560 A (TAN et al.) 02 November 1999, whole document.	1-152
Y	US 5,467,434 A (HOWER Jr. et al.) 14 November 1995, whole document.	1-152
Y	US 5,353,388 A (MOTOYAMA) 04 October 1994, whole document.	1-152
Y	US 5,228,118 A (SASAKI) 13 July 1993, whole document.	1-152
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
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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.
Y	US 5,107,299 A (FARRELL et al.) 21 April 1992, whole document.	1-152