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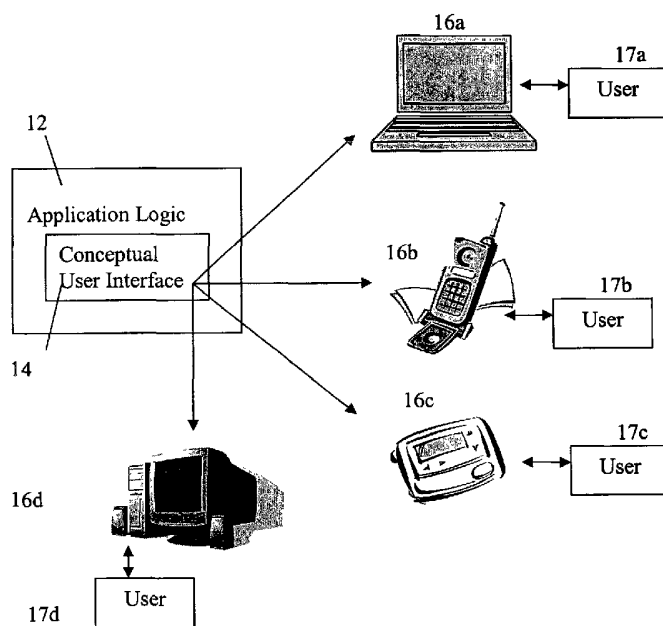
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[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR DESIGNING, RENDERING AND PROGRAMMING A USER INTERFACE



(57) Abstract: A method of displaying a user interface, comprising the steps of first obtaining a representation of the user interface. The representation includes conceptual components representing multi-dimensional arrays of elements of the user interface. The conceptual components include a vector parameter related to a multi-dimensional size of the array, and matrices having dimensions related to those of the array. The method proceeds by executing a device-specific rendering algorithm on the representation of the user interface and displaying the user interface on the device.

WO 2003/065191 A3



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B. FIELDS SEARCHED

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Electronic data base consulted during the international search (name of data base and, where practical, 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	EP 0 622 729 A (IBM) 2 November 1994 (1994-11-02) abstract page 5, line 16 - page 5, line 33	1,8
A	US 5 712 993 A (ICHIKAWA TAKEHIKO) 27 January 1998 (1998-01-27) column 1, line 41 - column 2, line 62	1,8
A	US 6 343 265 B1 (GLEBOV ALEXANDER GENNADIEVICH ET AL) 29 January 2002 (2002-01-29) column 2, line 65 - column 3, line 28	1,8
A	US 5 327 529 A (FULTS DOUGLAS A ET AL) 5 July 1994 (1994-07-05) column 6, line 48 - column 7, line 45	1,8

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0622729	A	02-11-1994	EP 0622729 A2	02-11-1994
			JP 7006030 A	10-01-1995
<hr style="border-top: 1px dashed black;"/>				
US 5712993	A	27-01-1998	JP 3487644 B2	19-01-2004
			JP 8030446 A	02-02-1996
<hr style="border-top: 1px dashed black;"/>				
US 6343265	B1	29-01-2002	NONE	
<hr style="border-top: 1px dashed black;"/>				
US 5327529	A	05-07-1994	AU 8752791 A	15-04-1992
			JP 2794339 B2	03-09-1998
			JP 5508726 T	02-12-1993
			WO 9205498 A1	02-04-1992
<hr style="border-top: 1px dashed black;"/>				