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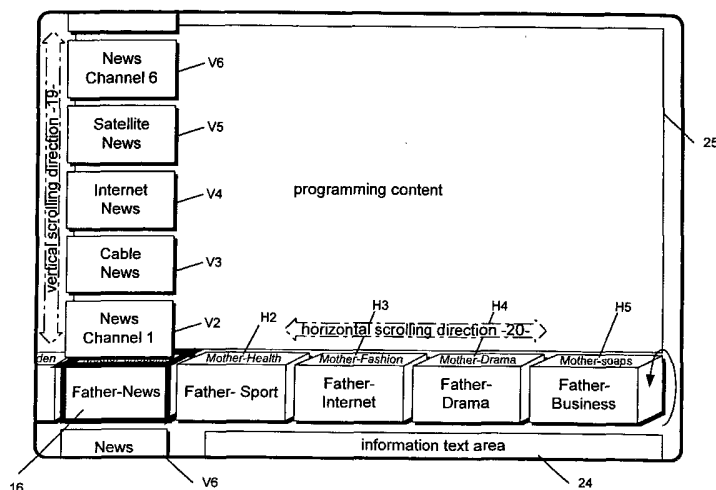
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(54) Title: GRAPHICAL USER INTERFACE



(57) Abstract: A digital interactive television set has a graphical user interface for displaying content from a plurality of different sources on its screen e.g. from digital satellite, cable broadcasts or through the Internet, the interface comprising: a focus region (16), and horizontally and vertically extending scroll bars (H,V) made of scroll bar elements that can be scrolled through the focus region, the horizontal scroll bar elements signifying groupings of content sources. The horizontal scroll bar elements are scrolled individually into the focus region, and the vertical scroll bar elements signify content sources which are included within a grouping thereof associated with the individual element of the horizontal scroll bar, so that the vertical scroll bar elements can then be scrolled through the focus region to select a content source in the grouping. The horizontal scroll bar elements comprise a three dimensional depiction of more than one of the content source groupings, and an individual one of the groupings may be selected from them in the focus region. The elements may comprise rectangular blocks rotatable about a common longitudinal axis.



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INTERNATIONAL SEARCH REPORT

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PCT/1B 02/01938

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G06F3/033

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 7 G06F

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 practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 00 65429 A (NOKIA MULTIMEDIA TERMINALS OY ;MARMOLIN HANS (SE); AHLSTROEM BENGT) 2 November 2000 (2000-11-02) cited in the application page 1, line 25 -page 3, line 12 page 3, line 24 - line 31 page 4, line 20 - line 29 page 5, line 19 -page 11, line 3 figures 1,2A,2B ---	1-4, 7-12, 15-18
Y	EP 1 052 566 A (CIT ALCATEL) 15 November 2000 (2000-11-15) column 1, line 32 - line 41 column 2, line 6 - line 12 column 2, line 57 -column 3, line 19 column 3, line 33 -column 5, line 23 figure 1 --- -/--	1-4, 7-12, 15-18



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

° Special categories of cited documents :

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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	WO 01 09707 A (ALLTRUE NETWORKS INC) 8 February 2001 (2001-02-08) page 2, line 21 -page 3, line 9 page 8, line 4 -page 11, line 20 figures 3,4A,4B,5A,5B ---	1,7-10, 12,16,17
A	US 5 677 708 A (MATTHEWS III JOSEPH H ET AL) 14 October 1997 (1997-10-14) column 4, line 32 - line 50 column 13, line 1 -column 15, line 35 column 17, line 23 - line 44 figures 4-11 ---	1,7-12, 16,17
A	US 2001/003835 A1 (WATTS) 14 June 2001 (2001-06-14) paragraph '0110! - paragraph '0123! figures 10-14 -----	1-4, 7-10, 15-18

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB 02/01938

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0065429	A	02-11-2000	SE 514282 C2	05-02-2001
			AU 761127 B2	29-05-2003
			AU 4120100 A	10-11-2000
			BR 0009942 A	15-01-2002
			CA 2367697 A1	02-11-2000
			CN 1355899 T	26-06-2002
			WO 0065429 A1	02-11-2000
			EP 1185922 A1	13-03-2002
			EP 1291754 A2	12-03-2003
			JP 2002543487 T	17-12-2002
			NO 20015092 A	19-10-2001
			SE 9901443 A	23-10-2000
EP 1052566	A	15-11-2000	EP 1052566 A1	15-11-2000
WO 0109707	A	08-02-2001	US 6292188 B1	18-09-2001
			AU 6392000 A	19-02-2001
			WO 0109707 A1	08-02-2001
			US 2002080195 A1	27-06-2002
US 5677708	A	14-10-1997	NONE	
US 2001003835	A1	14-06-2001	NONE	