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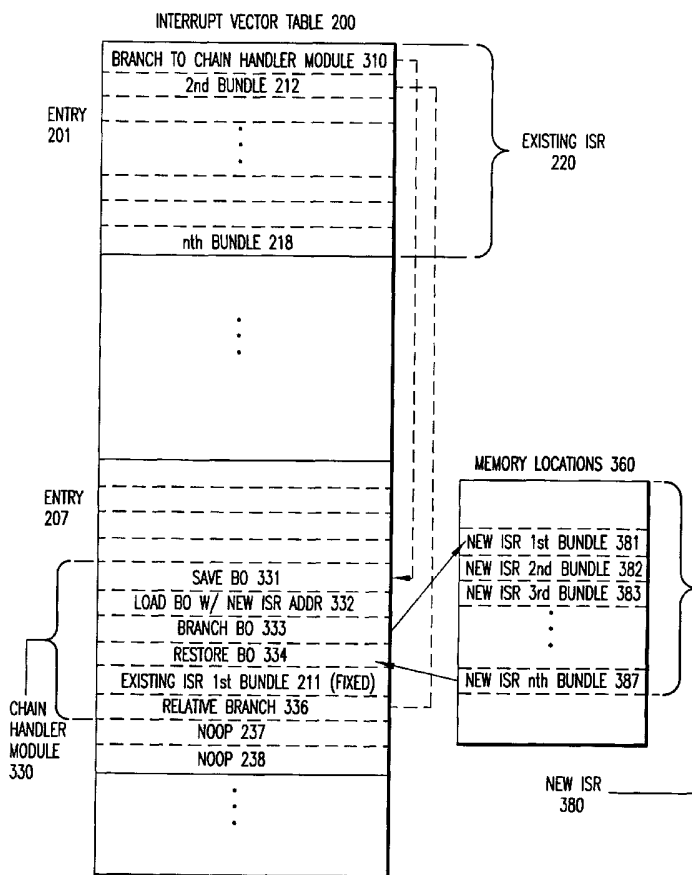
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(54) Title: METHOD AND APPARATUS FOR CHAINING INTERRUPT SERVICE ROUTINES



(57) Abstract: A method of chaining interrupt service routines comprises creating a chain handler module and replacing an instruction in an existing interrupt service routine with a branch directed to the chain handler module.



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patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

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INTERNATIONAL SEARCH REPORT

International Application No  
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A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 G06F9/46 G06F9/32 G06F9/42

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)

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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.
X	US 5 978 882 A (ADAMS PHILLIP M) 2 November 1999 (1999-11-02) column 10, line 13 -column 12, line 16 ----	1-27
A	WO 98 33106 A (TECHWAVE INC) 30 July 1998 (1998-07-30) page 14, line 16 -page 15, line 25; figure 6 ----	1-27
A	US 5 175 828 A (ENGEL GLENN R ET AL) 29 December 1992 (1992-12-29) column 5, line 62 -column 6, line 39 ----	1-27
A	US 4 768 149 A (KONOPIK BRADLY J ET AL) 30 August 1988 (1988-08-30) column 19, line 1 -column 20, line 42 -----	1-27

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5978882	A	02-11-1999	NONE	
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WO 9833106	A	30-07-1998	US 6141698 A	31-10-2000
			AU 6051798 A	18-08-1998
			WO 9833106 A1	30-07-1998
			US 6405316 B1	11-06-2002
			US 6073124 A	06-06-2000
-----				
US 5175828	A	29-12-1992	NONE	
-----				
US 4768149	A	30-08-1988	CA 1251869 A1	28-03-1989
			DE 3687866 D1	08-04-1993
			DE 3687866 T2	23-09-1993
			EP 0212393 A2	04-03-1987
			JP 2019400 C	19-02-1996
			JP 7054500 B	07-06-1995
			JP 62052655 A	07-03-1987
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