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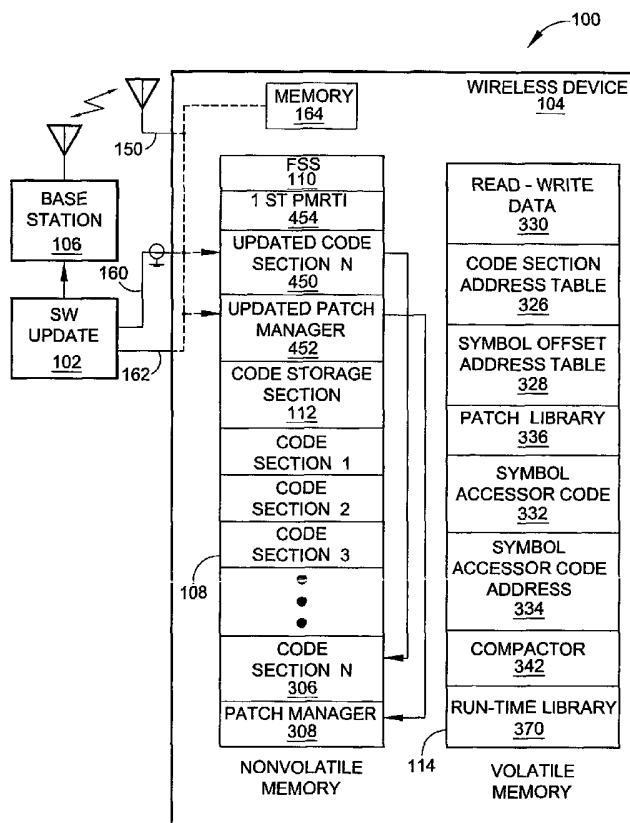
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(54) Title: SYSTEM AND METHOD FOR EXECUTING UPDATE INSTRUCTIONS ON A WIRELESS COMMUNICATIONS DEVICE



(57) Abstract: A system and method are provided for executing dynamic instruction sets in a wireless communications device. The method comprises: forming the system software into symbol libraries, each symbol library comprising symbols having related functionality; arranging the symbol libraries into code sections in a code storage section nonvolatile memory; executing system software; receiving a patch manager run time instruction (PMRTI) or dynamic instruction sets, including conditional operation code and data items, in a file system section nonvolatile memory; calling a run-time library from a first code section; processing the patch manager run time instruction operation code; operating on system data and system software; and, in response to operating on the system data and system software, controlling the execution of the system software.



TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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A. CLASSIFICATION OF SUBJECT MATTER

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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, IBM-TDB, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	DE 195 43 843 A (ACER PERIPHERALS INC) 28 May 1997 (1997-05-28)	1-9, 12, 13, 17-28, 30-32, 36-38
A	column 2, line 16 -column 4, line 10 ---	10, 11, 14, 29, 33
Y	WO 99 22325 A (MICROSOFT CORP) 6 May 1999 (1999-05-06)	1-9, 12, 13, 17-28, 30-32, 36-38
	page 15, line 19 -page 16, line 18 page 20, line 30 -page 21, line 8 page 22, line 7 - line 23 page 24, line 15 -page 25, line 7 ---	
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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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- *&* document member of the same patent family

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Name and mailing address of the ISA

 European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Carciofi, A

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Internat^l plication No
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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 6 138 153 A (COLLINS III THEODORE JOSEPH ET AL) 24 October 2000 (2000-10-24) abstract column 5, line 62 -column 6, line 52 column 7, line 9 - line 13 column 8, line 13 - line 22 -----	1-9, 12, 13, 15-28, 30-32, 34-38
A	US 5 699 275 A (KENNEDY III WILLIAM C ET AL) 16 December 1997 (1997-12-16) column 4, line 65 -column 5, line 14 column 6, line 48 -column 7, line 10 column 7, line 59 -column 8, line 11 -----	1-9, 12, 13, 17-28, 30-32, 36-38

INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 19543843	A	28-05-1997	DE 19543843 A1	28-05-1997
WO 9922325	A	06-05-1999	US 6496979 B1	17-12-2002
			CA 2305172 A1	06-05-1999
			CA 2305280 A1	06-05-1999
			CA 2306021 A1	06-05-1999
			CA 2306253 A1	06-05-1999
			CA 2306264 A1	06-05-1999
			EP 1025526 A1	09-08-2000
			EP 1025504 A1	09-08-2000
			EP 1025527 A1	09-08-2000
			EP 1025505 A1	09-08-2000
			EP 1023685 A1	02-08-2000
			JP 2001521247 T	06-11-2001
			JP 2001521357 T	06-11-2001
			JP 2001521251 T	06-11-2001
			JP 2001521253 T	06-11-2001
			JP 2001521254 T	06-11-2001
			US 6052735 A	18-04-2000
			US 6128661 A	03-10-2000
			WO 9922322 A1	06-05-1999
			WO 9922324 A1	06-05-1999
			WO 9922325 A1	06-05-1999
			WO 9922304 A1	06-05-1999
			WO 9922305 A1	06-05-1999
			US 6272545 B1	07-08-2001
US 6138153	A	24-10-2000	US 5845090 A	01-12-1998
			US 6286041 B1	04-09-2001
US 5699275	A	16-12-1997	AU 5440096 A	30-10-1996
			CA 2217856 A1	17-10-1996
			EP 0820614 A1	28-01-1998
			JP 11503545 T	26-03-1999
			WO 9632679 A1	17-10-1996