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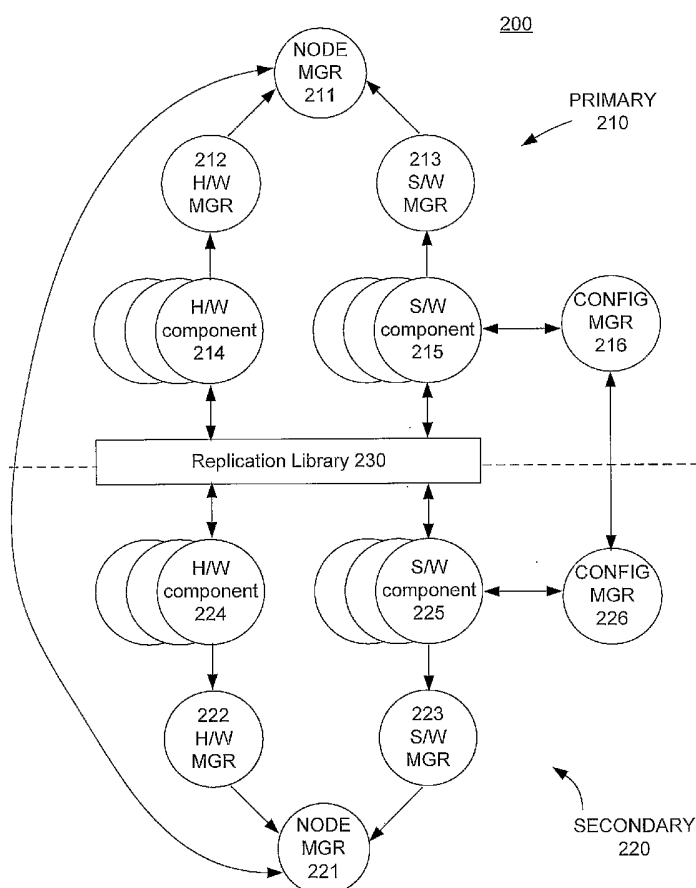
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(54) Title: COMPUTING SYSTEM REDUNDANCY AND FAULT TOLERANCE



(57) Abstract: A computing environment includes a number of nodes, one of which is a primary node that controls the operation of the computing environment and another of which is a backup node that is capable of controlling operation of the computing environment. The primary node includes a hardware management module (HMM) that controls hardware components in the computing environment. The HMM also detects and reports events relating to the hardware components. The primary node further includes a software management module (SMM) that controls instances of software components of the computing environment, and detects and reports events related to the same. A node management module (NMM) in the primary node elects the node as the primary from among the number of nodes. The NMM receives the reports of events from the HMM and SMM, and selectively transfers operational control of the computing environment to a backup node in response to the reports. A configuration management module (CMM) transfers a configuration of the computing environment to the backup node. A replication library is used in transferring a state of each of the instances of software components to the backup node.



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B. FIELDS SEARCHED

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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, WPI Data, PAJ, INSPEC, COMPENDEX, IBM-TDB

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 2 397 661 A (* FISHER-ROSEMOUNT SYSTEMS, INC) 28 July 2004 (2004-07-28)	9-13
Y	paragraphs [0002] - [0004], [0008], [0012], [0017] - [0025], [0027] - [0029], [0033], [0037], [0038], [0045] - [0047], [0049] figures 1,2	1-8
Y	US 2002/143798 A1 (LISIECKI PHILIP A ET AL) 3 October 2002 (2002-10-03) paragraphs [0008], [0018] - [0021], [0034], [0071], [0084], [0085], [0089] - [0100] ----- -/--	1-8



Further documents are listed in the continuation of Box C.



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X	EP 0 260 625 A (ASEA AB)	9-13
A	23 March 1988 (1988-03-23)	1-8
	column 1, line 24 - line 32	
	column 2, line 13 - line 20	
	column 3, line 4 - line 13	
	column 3, line 36 - line 42	
	column 5, line 40 - column 6, line 9	
	column 6, line 41 - column 7, line 12	
	column 9, line 28 - line 36	
	column 10, line 49 - column 14, line 45	

INTERNATIONAL SEARCH REPORT

Information on patent family members

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