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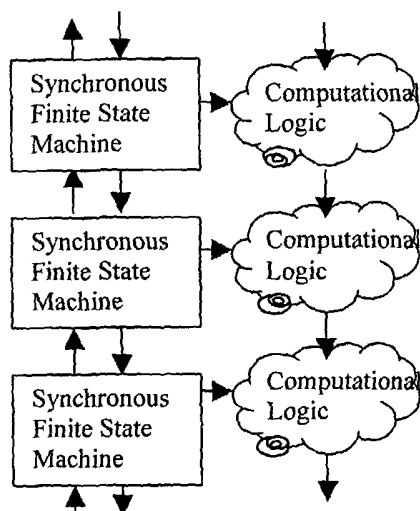
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For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: SYSTEM OF FINITE STATE MACHINES



(57) Abstract: A system of finite state machines (Fig. 1) built with asyn-
chronous or synchronous logic for controlling the flow of data through com-
putational logic circuits (Computational Logic) programmed to accomplish
a task specified by a user, having one finite state machine associated with
each computational logic circuit (Fig. 1), having each finite state machine
accept data from either one or more predecessor finite state machines or
from one or more sources outside the system and furnish data to one or
more successor finite state machines or a recipient outside the system (Fig.
1), excluding from consideration in determining a clock period for the sys-
tem logic paths performing the task specified by the user, and providing a
means for ensuring that each finite state machine allows sufficient time to
elapse for the computational logic circuit associated with that finite state to
perform its task.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/24451

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G06F 9/455, 17/30; H03K 19/177

US CL : 326/37-41,46,93; 703/14,27,10,4; 709/219,246

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)

U.S. : 326/37-41,46,93; 703/14,27,10,4; 709/219,246

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 practicable, search terms used)
Please See Continuation Sheet**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6,356,863 B1 (Sayle) 12 Mar 2002, entire document	1-4
A	US 5,550,760 A (Razdan et al.) 27 Aug 1996, entire document	1-4
A	US 5,847,578 A (Noakes et al.) 8 Dec 1998, entire document	1-4

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

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document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

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INTERNATIONAL SEARCH REPORT

PCT/US03/24451

Continuation of B. FIELDS SEARCHED Item 3:

EAST, BRS

search terms: finite state machines, synchronous logic, computational logic