



US005247684A

United States Patent [19]

[11] Patent Number: 5,247,684

Tavares et al.

[45] Date of Patent: Sep. 21, 1993

[54] LIGHT UPDATE NOTIFICATION MECHANISM FOR SHARED DATA STRUCTURES

[56] References Cited

U.S. PATENT DOCUMENTS

4,441,163 4/1984 Leikam et al. 364/900
5,151,988 9/1992 Yamagishi 395/600

[75] Inventors: Carlos M. Tavares, Somerset; Durval M. Tavares, Dighton, both of Mass.

Primary Examiner—Gareth D. Shaw
Assistant Examiner—A. Katbab
Attorney, Agent, or Firm—Michael J. McGowan;
Prithvi C. Lall; Michael F. Oglo

[73] Assignee: The United States of America as represented by the Secretary of the Navy, Washington, D.C.

[57] ABSTRACT

A system for updating and reading a data base utilizes a pair of counters working in conjunction with registers located within RAM to enable one upon reading the data base to know if a data base record has been added, deleted, or revised. The system also notifies if the data base is being updated on attempting a read process or during the reading. The updating is performed by a writer that is never inhibited from updating the data base.

[21] Appl. No.: 770,207

[22] Filed: Oct. 3, 1991

[51] Int. Cl.⁵ G06F 15/40

[52] U.S. Cl. 395/700; 364/962; 364/962.1; 364/969.2; 364/969.4; 364/DIG. 2

[58] Field of Search 395/700; 364/962, 962.1, 364/969.2, 969.4, DIG. 2

6 Claims, 3 Drawing Sheets

