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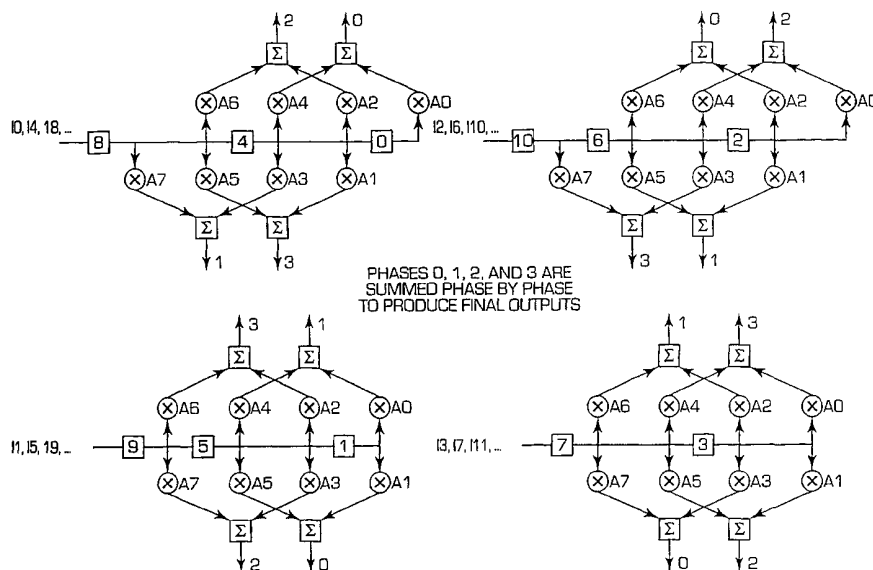
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For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: A HIGH SPEED BURST-MODE DIGITAL DEMODULATOR ARCHITECTURE



(57) Abstract: A unique demodulator device structure is disclosed which includes methods for enhancing the reliability of processing digital data at high speeds, while in some cases reducing the amount of hardware required for such structures. Parallel data paths within several common functions of the overall demodulator design allow for reducing the rate at which data is processed within each such data path (e.g., Fig. 3, paths 0, 1, 2 and 3) to a rate lower than that at which the data was received. Subsequently, the data may be passed on at the original received data rate or processing may be completed at a lower rate. The reduction in hardware typically results in reductions in mass, size, and power for the final demodulator while simultaneously allowing the demodulator to work at speeds not otherwise possible.

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US00/17873

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : HO4L 27/06, 27/22

US CL : 375/324, 340

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. : 375/324, 340

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)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,454,009 A (FRUIT et al) 26 September 1995, abstract, figures 1 and 11, with corresponding description.	1-24
A	US 5,459,524 A (COOPER) 17 October 1995, abstract, column 1 lines 38-53, column 4 lines 27-47, column 5 lines 1-12m column 7 lines 9-16, column 10 line 61 through column 11 line 24.	1-24
A	US 5,867,400 A (EL-GHOROURY et al) 02 February 1999, abstract, column 1 lines 5-9, column 2 lines 5-9, column 2 line 66 through column 3 line 23, column 4 lines 51-54	1-24

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

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*O* document referring to an oral disclosure, use, exhibition or other means	
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