United States Patent [19]

Lincoln et al.

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[54] MICROCODE PROGRAM SEQUENCER

- [75] Inventors: Neil R. Lincoln, St. Paul; David R. Resnick, Arden Hills, both of Minn.
- [73] Assignee: Control Data Corporation, Minneapolis, Minn.
- [22] Filed: Sept. 12, 1975
- [21] Appl. No.: 612,837
- [51]
 Int. Cl.²
 G06F 9/16

 [58]
 Field of Search
 340/172.5

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Primary Examiner-Gareth D. Shaw

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[45] May 31, 1977

[11]

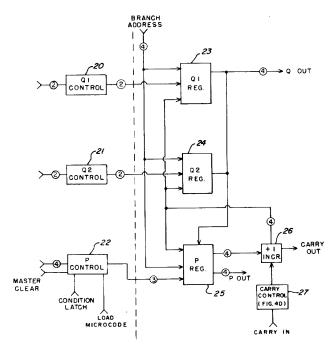
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Assistant Examiner—C. T. Bartz Attorney, Agent, or Firm—Robert M. Angus

[57] ABSTRACT

A microcode program sequencer includes first and second registers (herein designated the Q and P registers), each connected to a computer memory to receive addresses therefrom. Control means is provided for each register such that the P register will provide output addresses to a microcode memory, whereas the Q register(s) provide output addresses to the P register. By properly operating the control means, incrementing of addresses from the P register can be accomplished, as well as address jumps and returns, using the Q register. Further, the contents of the Q register may also be incremented in synchronism with the P register, as desired. One feature of the invention resides in a conditional latch circuit which may be selectively operated as a latch or as an OR gate.

13 Claims, 9 Drawing Figures



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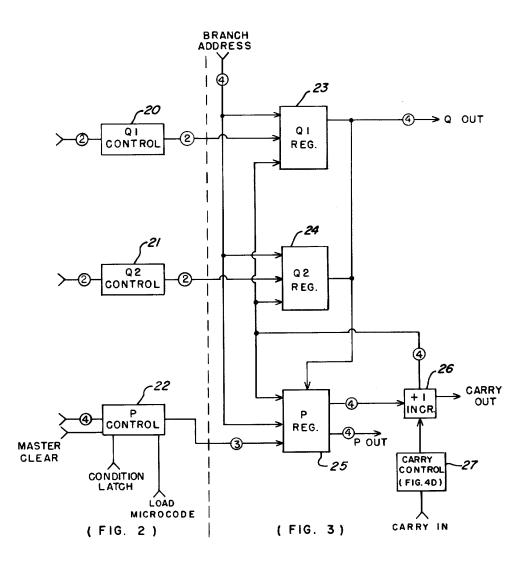
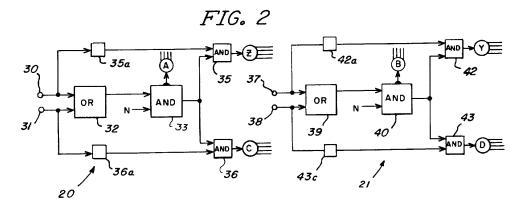
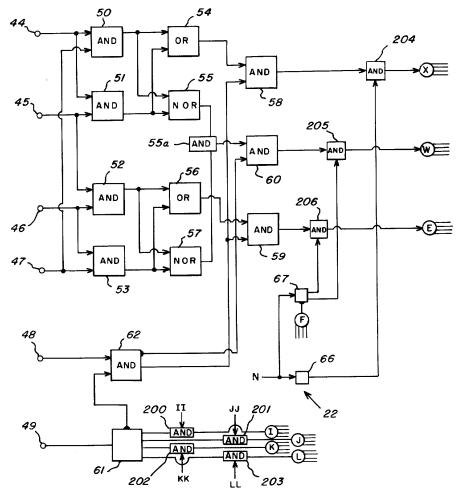


FIG. 1

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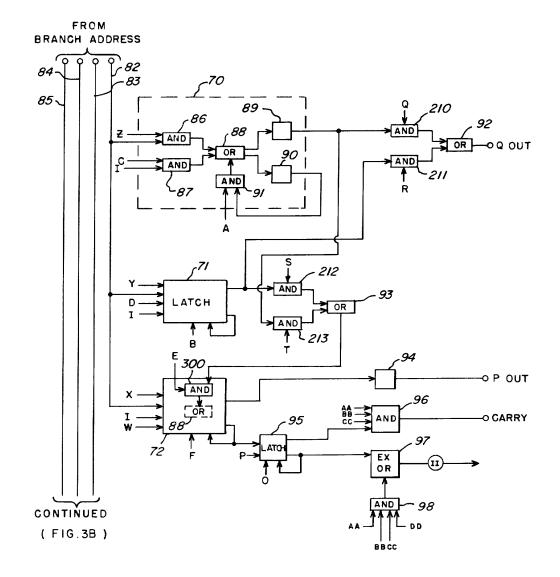
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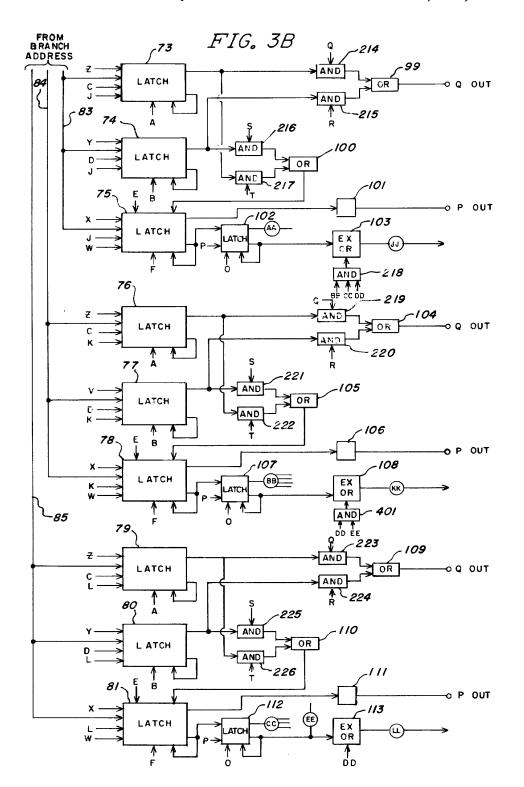
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