

Petitioner's Exhibit CSC 1001



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United States Patent [19]
Wandel

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[45] **Date of Patent:** **Mar. 7, 2000**

[54] **AUTONOMOUS RADIO TELEMETRY**

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[21] Appl. No.: **08/897,346**

[22] Filed: **Jul. 21, 1997**

[51] **Int. Cl.**⁷ **G08C 19/16**

[52] **U.S. Cl.** **340/870.01; 340/870.02;**
340/870.07; 379/106.01; 379/106.03

[58] **Field of Search** 340/870.01, 870.02,
340/870.07, 310.01; 379/106.01, 106.03

[56] **References Cited**

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Primary Examiner—Michael Horabik

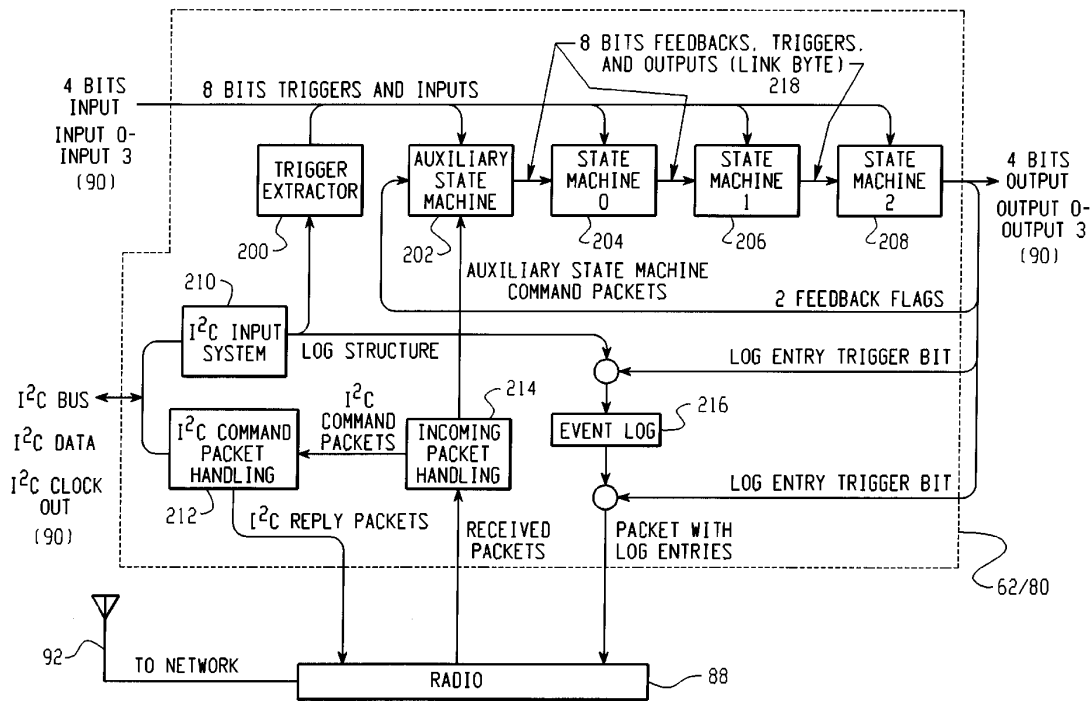
Assistant Examiner—Timothy Edwards, Jr.

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Charles B. Meyer, Esq.

[57] **ABSTRACT**

An improved radio modem is disclosed for use with an autonomous radio telemetry system. The radio modem includes a reprogrammable microprocessor, a radio transceiver, and a serial interface. By providing a software program within the radio modem that converts the serial interface into a general purpose interface to external input/output devices, and by providing additional programmed decision making capability into the radio modem, no external telemetry computer is required to interface with the input/output devices, and the radio modem operates as a combination telemetry computer and radio device. The radio modem also includes a novel reprogrammable state machine architecture for communicating with the input/output devices, and for deciding what actions to take based on the status of the external devices.

4 Claims, 6 Drawing Sheets



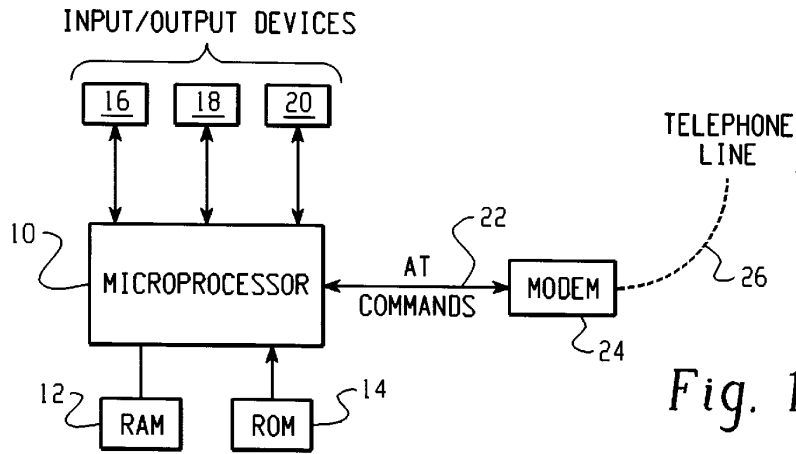


Fig. 1

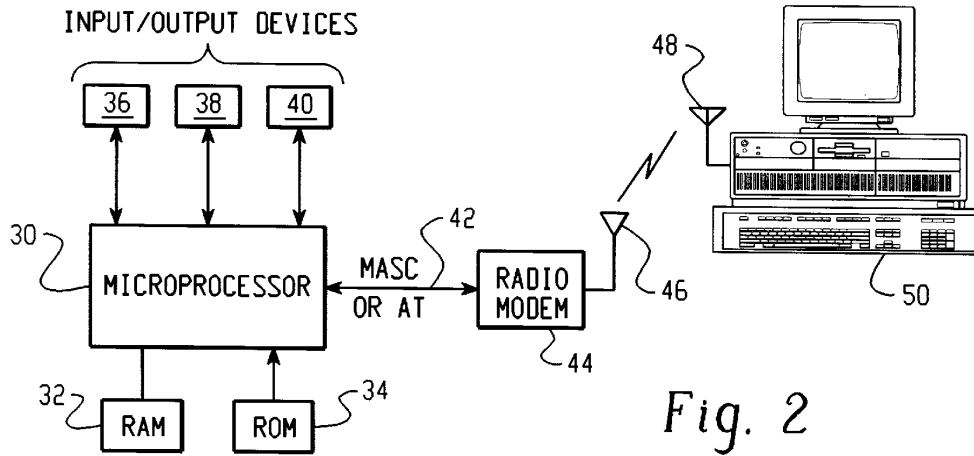


Fig. 2

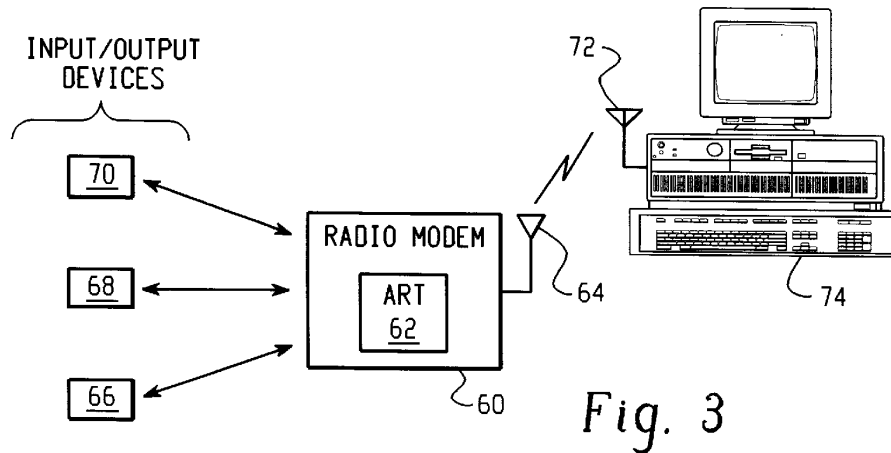
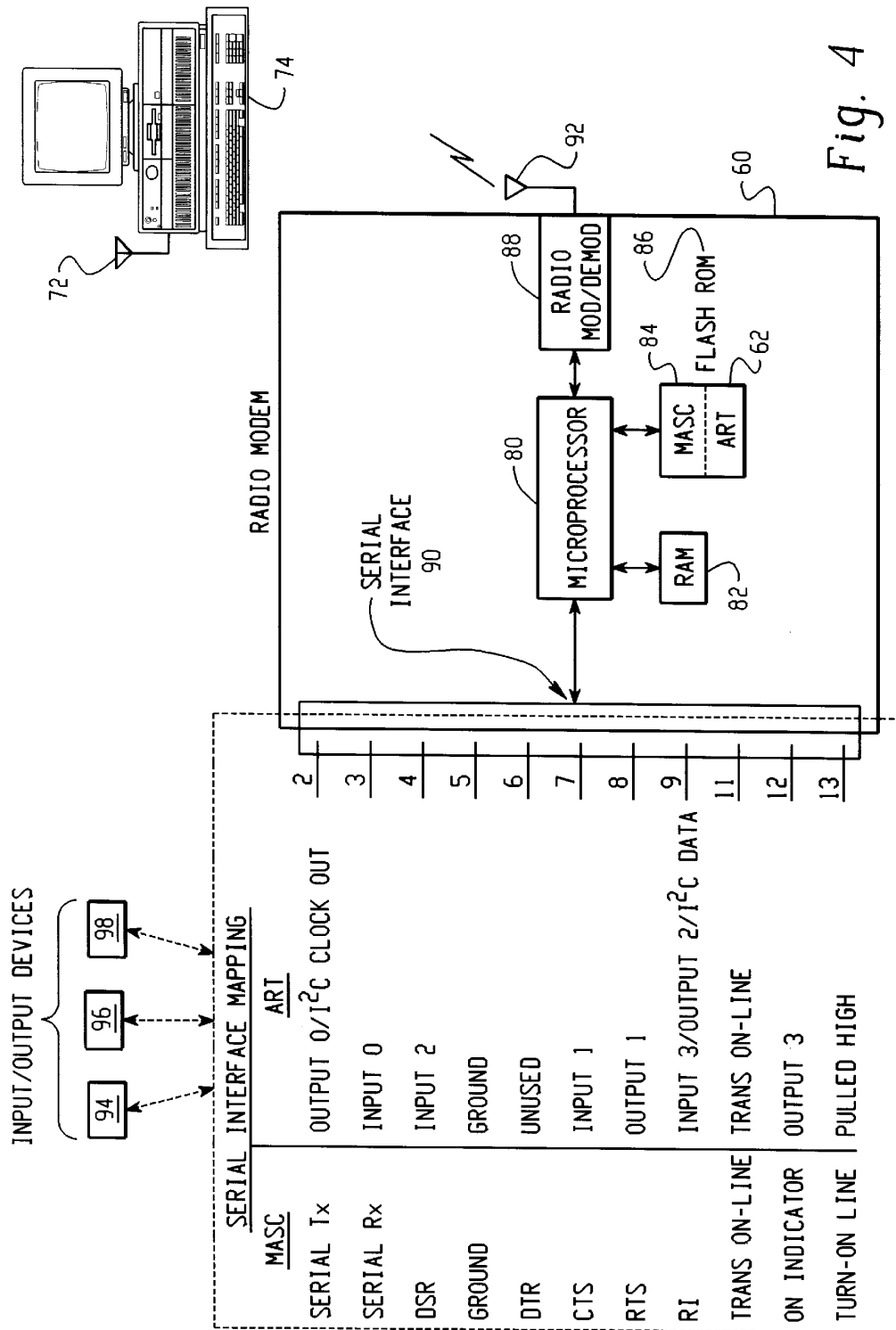


Fig. 3



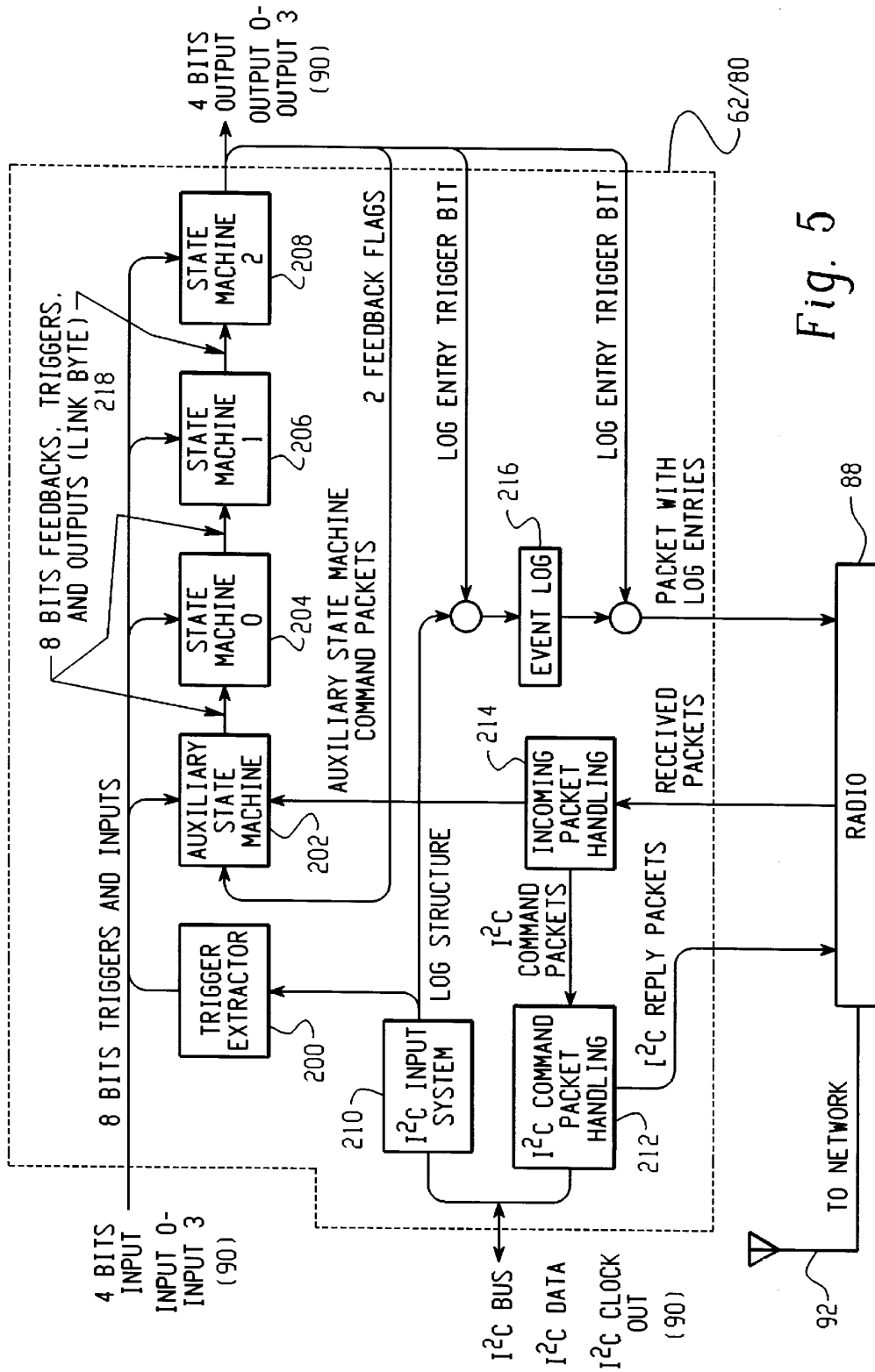


Fig. 5

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